Wednesday, January 14, 1970.

The fifth regular meeting of The Senate of The University of British Columbia for the session 1969-70 was held on Wednesday, January 14, 1970, at 8:00 p.m. in the Board and Senate Room, Administration Building.

Present: President W. H. Gage (Chairman), Dr. A. E. Aho, Miss D. Allen, Dr. C. S. Belshaw, Mr. R. M. Bibbs, Mr. S. Black, Mr. C. B. Bourne, Mrs. A. Brearley, Mr. P. Brock, Dr. C. A. Brockley, Dr. D. G. Brown, Dr. T. H. Brown, Mr. F. J. Cairnie, Mr. C. M. Campbell Jr., Dr. S. D. Cavers, Dr. D. H. Chitty, Dr. R. M. Clark, Dr. M. F. Clarke, Dean G. F. Curtis, Dr. R. Daniells, Mr. J. Davies, Mr. A. Dobrey, Dr. C. W. J. Eliot, Mr. W. A. Ferguson, Dr. W. D. Finn, Dr. S. M. Friedman, Dean J. A. F. Gardner, Dr. W. C. Gibson, Dr. R. F. Gray, Mr. J. Guthrie, Dr. N. A. Hall, Dr. D. F. Hardwick, Dr. C. S. Holling, Mr. D. S. M. Huberman, Mr. R. W. Jacobs, Dr. R. F. Kelly, Dr. J. M. Kennedy, Dr. D. T. Kenny, Dr. W. D. Kitts, Mr. P. Ladner, Mr. S. S. Lefeaux,Dean S. W. Leung, Miss E. K. McCann, Dr. A. J. McClean, Dean Helen McCrae, Dr. M. F. McGregor, Mr. K. R. Martin, Mr. D. F. Miller, Dr. B. N. Moyls, Dr. J. M. Norris, Dr. H. P. Oberlander, Miss D. J. O'Donnell, Dean V. J. Okulitch, Mr. R. F. Osborne, Mr. S. Persky, Mr. P. Plant, Dr. R. A. Restrepo, Dean B. E. Riedel, Mr. J. V. Rogers, Dr. G. Rosenbluth, Dr. I. Ross, Dr. R. F. Scagel, Dean N. V. Scarfe, Dr. A. D. Scott, Dean M. Shaw, Dr. J. H. G. Smith, Dr. J. D. Spouge, Dr. J. K. Stager, Mr. B. Stuart-Stubbs, Mr. B. B. Trevino, Dr. G. M. Volkoff, Mr. K. Waldman, Dr. W. A. Webber, Dean P. H. White, Mr. D. R. Williams, Dr. W. E. Willmott, Mr. E. Wood, Dr. W. D. Young.

Observers: Mr. J. A. Banham, Miss D. Hopper, Mr. T. A. Myers, Mr. P. Thompson.

Messages of regret for their inability to attend were received from, Deputy-President W. M. Armstrong, Mr. D. M. Brousson, Dr. J. D. Chapman, The Hon. E. D. Fulton, Mr. I. F. Greenwood, Dr. S. Israels, Mrs. W. T. Lane, Dean J. F. McCreary, Mr. J. R. Meredith, Mr. G. R. Selman.

Minutes of the Previous Meeting

Dr. Hardwick)
Dr. Moyls)

That the Minutes of the fourth regular meeting of Senate for the Session 1969-70, having been circulated, be taken as read and adopted.

Carried

Wednesday, January 14, 1970.

Business Arising from the Minutes

Figures of eligible voters and the number who actually voted during recent Faculty, Alumni and Student elections were circulated.

At the previous Senate meeting the Nominating Committee had been requested to select a committee to delineate the scope and nature of a study of the sociological background of U.B.C. students. Dr. Volkoff reported the following list of suggested members:

Miss D. Allen

Dr. D. G. Brown

Dr. R. M. Clark

Dr. J. D. Dennison

Dr. G. A. Gray

Mr. R. W. Jacobs

Mr. K. R. Martin

Dr. V. F. Mitchell

Mr. J. K. Stathers

Mr. J. V. Zidek

Dr. Volkoff)
Dr. Hardwick) *That these people be appointed to a committee to delineate the scope and nature of a study of the sociological background of U.B.C. students.*

Carried

From the Board of Governors

Notification of approval of Senate Recommendations - subject, where applicable, to the necessary funds being available

(i) That a Ph.D. programme in Romance Studies (Hispanic Literature) be offered by the Faculty of Graduate Studies provided that no more students be enrolled in the programme until the Department of Hispanic and Italian Studies appoints at least two additional Faculty members with appropriate research qualifications in Spanish Literature. (Page 5121-5122)

Wednesday, January 14, 1970.

From the Board of Governors

Notification of approval of Senate Recommendations - subject, where applicable, to the necessary funds being available (Continued)

(ii) That the proposal of the Faculty of Law to introduce the Law Schools Admission Test, applicable to students seeking admission to the First Year of the Faculty of Law for September 1970, be approved, and that the Faculty be requested to report to Senate on the effectiveness of the Test as a predictor of success in the study of Law and on other values derived from its use when sufficient experience has been obtained on this campus to permit adequate evaluation of the Test. (Page 5123-5124)

(iii) That the establishment of a Chair in Paediatrics to be known as The James and Annabel McCreary Professorship, be approved. (Page 5132)

(iv) That the course changes recommended by the Faculty of Commerce and Business Administration be approved. (Page 5138 - Appendix 'B')

(v) That the new courses in Paediatrics recommended by the Faculty of Graduate Studies be approved. (Page 5118 - Appendix 'B')

(vi) That the new course in Creative Writing recommended by the Faculty of Graduate Studies be approved. (Page 5118 - Appendix 'B')

Wednesday, January 14, 1970.

From the Board of Governors

Notification of approval of Senate Recommendations - subject, where applicable, to the necessary funds being available (Continued)

(vii) That for 1970-71, the approximate maximum enrolments of students entering the First Year for the first time should be:-

B.A. programme in the Faculty of Arts:	1,400
Faculty of Education (excluding Physical Education and Recreation):	450
Faculty of Science:	1,300
	3,150
Agricultural Science; Home Economics; Music; Physical Education and Recreation:	250
	3,400

(viii) That Extension credit courses be offered May - July 1970, as proposed by the Faculty of Arts.

Committee on Prizes, Scholarships and Bursaries

Dean Scarfe)
Mr. Miller)

That the new awards listed in Appendix 'A' be accepted subject to the approval of the Board of Governors, and that letters of thanks be sent to the donors.

Carried

Reports of Committees of Senate

Academic Building Needs

Dr. Smith presented a progress report for the information of Senate which gave a brief outline of the plans of the committee.

Curriculum Committee

Dr. Hall)
Dean Shaw)

That the proposals of the Faculty of Agricultural Sciences for new courses and changes in existing courses (with the exception of Plant Science 258) outlined in Appendix 'B', page 5155-5156, be approved.

Carried

Wednesday, January 14, 1970.

Reports of Committees of Senate

Curriculum Committee (Continued)

Dr. Hall)
Dr. Finn)

That the proposals of the Faculty of Applied Science for new courses and changes in existing courses, outlined in Appendix 'B', page 5156-5157, be approved.

Carried

Dr. Hall stated that all the proposals of the School of Architecture were withheld pending clarification of a number of changes in regulations and course descriptions.

Dr. Hall)
Dr. Norris)

That the proposals of the Faculty of Arts for new courses and changes in existing courses (with the exception of Philosophy 405, 421 and 434) outlined in Appendix 'B', page 5158-5162, be approved.

Carried

The Curriculum Committee recommended that two new courses to be offered in the Department of Theatre, Theatre 351 and 450, not be approved for academic credit but be made available to students on a non-credit basis.

Dr. Hall)
Dr. Norris)

That the Committee look further into the matter of offering Theatre 351 and 450 for academic credit.

Carried

With regard to the proposals from the Faculty of Education the Committee felt that it would be less confusing to students if Mathematics 372 and 373 were re-titled Education 372 - Mathematics, and Education 373 - Mathematics. It was also suggested that Education 479 Cross-cultural Education (Native Indians) should be re-titled Education 479 Indian Education.

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Reports of Committees of Senate

Curriculum Committee (Continued)

Dr. Hall)
Dean Scarfe)

That the proposals of the Faculty of Education, outlined in Appendix 'B', page 5162-5165, be approved subject to the change in the designation of Mathematics 372 and 373 and the change of course title in Education 479.

Carried

Dr. Hall)
Dr. McGregor)

That the proposals of the Faculty of Commerce and Business Administration for changes in unit values and course deletions, outlined in Appendix 'B', page 5162, be approved.

Carried

Dr. Hall)
Dr. Osborne)

That the proposals of the Faculty of Forestry for new courses and changes in descriptions, with the exception of Forestry 130, as outlined in Appendix 'B', page 5165, be approved.

Carried

A decision on Forestry 130 would be held pending further discussion between representatives of Forestry and Computer Science.

Dr. Hall)
Dr. Moyls)

That the course proposals and changes of the Faculty of Graduate Studies, outlined in Appendix 'B', page 5165-5168, be approved with the exception that new course proposals in Computer Science be withheld pending receipt of a report concerning the offering of a Ph.D. programme in that field.

Carried

Dr. Hall)
Miss McCann)

That the proposed changes of the School of Nursing, outlined in Appendix 'B', page 5168, be approved.

Carried

Dr. Hall)
Dr. Hardwick)

That the proposed changes of the School of Rehabilitation Medicine, outlined in Appendix 'B', page 5169, be approved.

Carried

It was agreed that the School be urged to provide flexibility in elective course offerings in the senior years.

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Reports of the Committees of Senate

Curriculum Committee (Continued)

Dr. Hall)
Dr. Moyls)

That the proposals of the Faculty of Science, outlined in Appendix 'B', page 5169-5171, be approved, subject to Microbiology 509 being approved by the Faculty of Graduate Studies.

Carried

Proposals of the Faculties

Faculty of Graduate Studies

Dr. Moyls)
Dr. Ross)

That the proposed new courses and course changes recommended by the Faculty of Graduate Studies listed in Appendix 'B' be approved subject to no objections being raised by the Senate Curriculum Committee.

Carried

Faculty of Law

Dr. McClean)
Dr. Smith)

That the new courses and course changes recommended by the Faculty of Law listed in Appendix 'B' be approved subject to no objections being raised by the Senate Curriculum Committee.

Objections were raised to this motion on the grounds that there had been insufficient consultation by the Faculty of Law with other departments concerned. After some discussion it was agreed that departments that had queries or suggestions should submit them to the Secretary of Senate within one week.

The submission of the Faculty of Law would then be studied by the Curriculum Committee for report to Senate at the February meeting.

Wednesday, January 14, 1970.

Proposals of the Faculties (Continued)

Faculty of Medicine

Dr. Hardwick)
Dr. Kelly)

That the new course proposals recommended by the Faculty of Medicine listed in Appendix 'B' be approved subject to no objections being raised by the Senate Curriculum Committee.

Carried

Proposals from Senate Members

Mr. Persky)
Miss O'Donnell)

That, whereas overcrowded classrooms constitute, for both students and teachers, a most direct serious problem at U.B.C. be it moved, as of September, 1970 that a limit of students-per-class be set at 25; further, that in those situations in which there is "programme-", "colleagial-", "group-", or "team-" teaching, that a limit be set for a "working unit" at 120 students.

While Senate members sympathized with the concern being expressed over the problem of crowded classrooms, there was little sympathy for the proposal as a solution to the problem. After a great deal of discussion the motion was defeated 65:5.

Mr. Persky gave notice of the following motion:-

"That as of September, 1970, classes of more than 100 students be prohibited (again, excepting programmes, group teaching, etc., and limiting them to working units of no more than 120)."

Dr. Rosenbluth gave notice of the following motion:-

"That a committee be established to implement the resolution on page 5028 of the Minutes of March 26, 1969, and to propose limitations on the size of classes."

Wednesday, January 14, 1970.

Proposals from Senate Members (Continued)

Mr. Persky)
Mr. Ladner)

That The University of British Columbia (through the Senate) present a report to the people of British Columbia about what the University is doing to solve the community problem of pollution. Further, that in preparing such a report, we will also assess the sufficiency of our programme and if we find we are not doing enough, we will commit ourselves to a more comprehensive programme. Further, that this motion embodies the principle that the university has a positive relationship to the community, and, as an example of such, some portion of its resources and talent be committed to the solution of this social problem of pollution.

In the ensuing discussion it was generally agreed that the problem of pollution was a very serious one, that the University should play a role in efforts to preserve the environment and that information concerning the University's role should be available to the public.

In amendment:

Dr. Finn)
Dr. Brockley)

That Senate, recognising the significant role of the University in helping to fulfil the needs of the community, release a report on what the University is currently doing to solve the problem of pollution of the environment and on what its programme is for continued research and teaching in this area of national concern.

Some members, in opposing the motion, expressed concern on the automatic assumption of some members of Senate that the University was a servant of the community.

In amendment:

Dr. Scott)
Dr. Friedman)

That the words "recognising the significant role of the University in helping to fulfil the needs of the community" be deleted.

The amendment was carried, 58:13.

Wednesday, January 14, 1970.

Proposals from Senate Members (Continued)

In amendment:

Mr. Bourne)
Mr. Campbell) *That Senate request the Chairman to prepare a report which would be brought to Senate on what the University is currently doing to solve the problem of pollution of the environment and on what its programme is for continued research and teaching in this area of national concern.*

Carried

The motion as amended was carried.

Mr. Ladner)
Mr. Persky) *That Senate request the Office of Academic Planning (or other appropriate agency) to determine, by departments, what percentage of U.B.C.'s Faculty members are Canadian citizens.*

Mr. Ladner said he believed that the Canadian heritage was in danger because of the large number of non-Canadians on the teaching staffs of Canadian universities.

In discussion of this motion it was argued that although there was undoubtedly a lack of Canadian content in the curriculum of many Canadian universities, the remedy lay in curriculum revision rather than in attempting to increase the ratio of Canadian teachers to those who were not Canadian citizens. It was also argued that the assumption that Canadian citizenship was an essential condition for the preservation of Canadian culture was questionable. After further discussion the motion was defeated.

Report of the Librarian 1968-69

Dr. Willmott)
Dr. McGregor) *That the report of the Librarian be received.*

Carried

The Chairman suggested that any questions on the report could be raised at the next regular Senate meeting.

Wednesday, January 14, 1970.

The Academic Year 1970-71

Received for information.

Other Business

Mr. Persky gave notice of the following motions:

1. That the Senate request the Faculty of Science to prepare a plan for a Science I programme to be presented to Senate.
2. That the Senate request the Faculty of Arts to prepare a plan for a social science majors programme to be presented to Senate.
3. That Senate strike a committee to prepare a plan whereby courses in contemporary affairs may be offered upon short notice.

The Chairman stated that when notice of a motion is given, Senate's Agenda Committee would have to decide upon the disposition of the motion, since the Committee was charged with the responsibility of scheduling Senate business effectively and of determining priorities as among proposals before Senate.

Dr. Hardwick gave notice of the following motion:

"That Senate recommend to the Board of Governors an increased allocation of funds to the Office of Academic Planning in order to determine firm data on the needs of the province for academically trained individuals."

Mr. Lefeaux extended congratulations to the President on his re-appointment.

Wednesday, January 14, 1970.

The meeting adjourned at 10:40 p.m.

A special meeting will be held on Saturday, February 7, and the next regular meeting will be held on Wednesday, February 25, 1970.

Secretary

Confirmed,

Chairman.

Wednesday, January 14, 1970.

APPENDIX 'A'

New Awards Recommended to Senate

Atlas Iron & Metals Ltd. Student Aid Fund

This fund, the gift of Atlas Iron & Metals Ltd., provides loans for students with good standing who are in need of financial assistance.

The Jacob Biely Scholarship

In recognition of his personal contribution to the University of British Columbia, as well as his numerous scientific contributions in the field of Poultry Science, the many friends and admirers of Professor Jacob Biely have established a $300 scholarship to be awarded annually to a student in Poultry Science. The award will be made by the University Scholarship Committee on the recommendation of the Department of Poultry Science.

The Suzanne H. Mullin Bursary Fund

Bursaries from this fund, established through a bequest from the late Suzanne H. Mullin, are available to students in the field of Public Health (Department of Health Care and Epidemiology, Faculty of Medicine). The awards will be made by the University Scholarship Committee in consultation with the Faculty of Medicine.

The Parke, Davis & Company Ltd. Awards (Medicine)

Through the generosity of Parke, Davis & Company Ltd. four awards, each consisting of the illustrated history entitled Great Moments in Medicine, will be awarded to outstanding students in the Faculty of Medicine.

Forbes George Vernon Memorial Scholarship

This scholarship, established by a bequest from the late Beatrice Alma Ashley Furber, will be awarded annually on the basis of general proficiency, character and leadership to a student normally resident in the City of Vernon or its environs, entering the University of British Columbia in a full programme of studies leading to a degree in any field.

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APPENDIX 'B'

FACULTY OF GRADUATE STUDIES

Faculty of Agricultural Sciences

Department of Food Science

New Courses	Food Science	501	Food Lipids
		502	Food Pigments and Colorimetry
		505	Food Suspensions, Emulsions and Foams
		506	Structure and Chemistry of Food Myosystems
		507	Food Carbohydrates
Changes	Food Science	503	change in unit value and course description
		504	change in unit value and course description

Department of Plant Science

New Courses	Plant Science	524	Control of Plant Growth by synthetic chemicals
		531	Biological Control
		532	Arthropod vestors of plant disease
		538	Dynamics of Weed Ecology
		539	Responses of Plants to Air
Changes	Plant Science	512	change in course description and title
Deletion		508	

Department of Soil Science

New Courses	Soil Science	503	Problems in Forest Tree Nutrition
		514	Biometeorology

Faculty of Applied Science

Electrical Engineering

New Courses	E.E.	560	Network Analysis
		562	Network Synthesis
		564	Signal Detection and Pattern Recognition
		566	Communication and Information Theory
		568	Control Systems
		570	Optimum Systems Control

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FACULTY OF GRADUATE STUDIES

Faculty of Applied Science

Electrical Engineering (Continued)

Changes	E.E.	555	change in unit value
		573	change in title and unit value
		577	change in unit value
		587	change in unit value
		559	change in course description
Deletions	E.E.	561, 563, 565	

Metallurgy

Changes	Metallurgy	575	change in title and unit value
		556	change in title and unit value
		586	change in title and unit value
Deletions	Metallurgy	560 and 588	

Faculty of Forestry

New Courses	Forestry	512	Problems in Forest Tree Nutrition
		514	Seminar in Forest Biology
		529	Seminar in Management of Forest Resources
		532	Data Processing in Forestry
		546	Seminar in Research Methods
		559	Operations Research in Forestry
Changes	Forestry	558	now 500
		557	now 502
		555	now 504
		518	now 506
		590	now 515
		580	now 517
		581	now 519
		591	now 521
		561	now 523
		563	now 525
		551	now 527
		562	now 530
		566	now 533
		560	now 536
		567	now 539
		564	now 542
		553	now 545
		568	now 555
		572	now 563
		573	now 567

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FACULTY OF GRADUATE STUDIES

Faculty of Forestry

Changes (Continued)	Forestry	576	now 572
		571	now 574
		579	now 576
		575	now 580
		574	now 584
		582	now 587
		583	now 589
		594	now 591
		596	now 595
		595	now 597
		545	change in course description
		563	change in course description
		533	change in course description
		519	change in course description
		594	change in title
		591	change in title
		593	change in title and course description

Faculty of Science

Department of Geophysics

Change	Geophysics	514	change in course description

School of Community and Regional Planning

New Courses	Planning	523	Seminar on Urban Regional Planning
		531	Urban Mass Transit Planning

FACULTY OF LAW

New Courses	Law	265	Selected Problems in Jurisprudence
		415	Environmental Control Techniques (seminar)
		421	Industrial and Intellectual Property (seminar)
		427	International Taxation (seminar)
		431	Law and Poverty (seminar)
		433	Law and Psychiatry (seminar)
		437	Law Relating to Juveniles (seminar)
		439	Methods of Empirical Research (seminar)
		445	Negotiation (seminar)
		451	Real Estate Development (seminar)

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FACULTY OF LAW

New Courses (Continued)	Law	455	Selected Topics in the Philosophy of Law (seminar)
		459	Tax Policy (seminar)
		461	Trial and Appellate Practice (seminar)
		501	Directed Legal Research
		503	Directed Legal Research
Changes	Law	101	change of title and number
		105	change of title, description and number
		201	change in units and number
		203	change of title, description, units and number (formerly part of 207)
		205	change of title, description, units and number (formerly part of 207)
		207	change of title, description, units and number (formerly part of 323)
		209	change of title, description, units and number (formerly part of 205)
		211	change of number (formerly seminar) and units
		213	change of title, description, units and number (formerly part of 317)
		215	change in title units and number (formerly 205)
		217	change in units and number
		219	change of title, description, units and number (formerly part of 307 and 317)
		221	change of title, description, units and number (formerly part of 205)
		223	change of title, units and number (formerly 303)
		227	change of title, description, units and number
		229	change of title and number (formerly 327)
		233	change of units and number
		237	change of title, description, units and number (formerly part of 211)
		241	change of title, description, units and number (split from 213)

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FACULTY OF LAW

Changes (Continued)

Law	243	change of units and number
	247	change of title and number
	251	change of units and number
	255	change of title, description, units and number (formerly part of 321)
	257	change of title, description, units and number (formerly 211)
	259	change of title, description, units and number (formerly part of 209)
	261	change of title, description, units and number (formerly part of 317)
	263	change of units and number
	269	change of units and number
	271	change of title, description, units and number (formerly part of 209)
	273	change of title, description, units and number (formerly part of 323)
	275	change of title, description, units and number (formerly part of 321)
	401	change of title, units and number
	403	change of units and number
	405	change of units and number
	407	change of units and number
	409	change of title, units and number
	411	change of units and number
	413	change of units and number
	417	change of units and number
	419	change of units and number (re-introduction of course last offered in 1967-68)
	423	change of title, units and number
	425	change of units and number
	429	change of units and number (re-introduction of course last offered in 1966-67)
	441	change of title, description, units and number (formerly 217)
	443	change of title, description, units and number (formerly part of 321)
	447	change of title, description, units and number (formerly part of 203)
	449	change of units and number

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FACULTY OF LAW

Changes (Continued)	Law 453	change of title, description units and number (formerly part of 321)
	457	change of units and number
	435	change of units and number
Deletion	Law 217	

FACULTY OF MEDICINE

New Courses	Pathology 375	Introduction to Human Pathology
	303	Laboratory in Human Physiology