Wednesday, November 17, 1971.

The third regular meeting of the Senate of The University of British Columbia for the session 1971-72 was held on Wednesday, November 17, 1971, 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, Mr. D. V. Anderson, Dr. C. S. Belshaw, Mr. R. M. Bibbs, Mr. S. Black, Dr. C. A. Brockley, Mr. D. M. Brousson, Dr. T. H. Brown, Mr. P. T. Burns, Mr. C. M. Campbell Jr., Dr. S. D. Cavers, Dr. D. H. Chitty, Dr. M. F. Clarke, Mr. C. J. Connaghan, Dean I. McT. Cowan, Dr. R. Daniells, Mr. A. C. L. Fox, Dr. S. M. Friedman, Dean J. A. F. Gardner, Mr. S. E. Garrod, Mr. W. Gerson, Dr. W. C. Gibson, Dr. R. F. Gray, Mr. I. F. Greenwood, Dr. N. A. Hall, Dr. D. F. Hardwick, Mr. R. W. Jacobs, Dean D. T. Kenny, Mrs. W. T. Lane, Mrs. J. MacD. Lecky, Mr. G. A. Letcher, Mr. A. J. Longmore, Dr. P. A. Lusztig, Dean A. J. McClean, Dean Helen McCrae, Dean J. F. McCreary, Dr. C. A. McDowell, Mr. J. A. McEwen, Dr. M. F. McGregor, Mr. K. R. Martin, Dr. L. G. Mitten, Dr. B. N. Moyls, Mr. R. F. Osborne, Dr. P. H. Pearse, Mrs. A. Brearley Piternick, Dr. R. A. Restrepo, Dean B. E. Riedel, Mr. A. R. Robbins, Dr. G. Rosenbluth, Dr. R. F. Scagel, Dean N. V. Scarfe, Dr. A. D. Scott, Dean M. Shaw, Dr. J. H. G. Smith, Dr. M. W. Steinberg, Mr. B. Stuart-Stubbs, Mr. J. T. Sydor, Mr. B. B. Trevino, Dr. G. M. Volkoff, Dr. H. V. Warren, Dr. W. A. Webber, Dr. B. L. White, Dean P. H. White, Mr. D. R. Williams, Mr. A. P. York, Dr. W. D. Young.

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

Messages of regret for their inability to attend were received from: Chancellor A. M. McGavin, Deputy President W. M. Armstrong, Dr. J. D. Chapman, Dr. R. M. Clark, Dean W. D. Finn, The Hon. E. D. Fulton, Mr. J. Guthrie, Mr. D. S. M. Huberman, Dr. S. Israels, Dr. J. M. Kennedy, Dr. W. D. Kitts, Dr. P. A. Larkin, Mr. S. S. Lefeaux, Dean S. W. Leung, Mr. D. F. Miller, Dr. J. M. Norris, Mr. P. Plant, Mr. J. V. Rogers, Dr. R. F. Sharp, Dr. J. K. Stager, Rev. W. S. Taylor.

Minutes of the Previous Meeting

Dr. Hardwick)
Dean Gardner) *That the Minutes of the second regular meeting of Senate for the session 1971-72 having been circulated, be taken as read and adopted.*

Carried

Senate Membership

The Chairman welcomed new student members: Mr. D. V. Anderson, Mr. A. C. L. Fox and Mr. J. T. Sydor (members-at-large replacing Mr. J. J. Campbell, Miss M. Stephenson and Mr. A. M. Smolensky respectively). It was noted that Mr. A. P. York had been re-elected. The Chairman also welcomed Dr. L. G. Mitten replacement for Dr. R. F. Kelly as representative of the Faculty of Commerce and Business Administration.

From the Board of Governors

Notification of approval in principle of Senate recommendations - subject, where applicable, to the proviso that none of the programmes be implemented without formal reference to the President and the formal agreement of the President; and that the Deans and Heads concerned with new programmes be asked to indicate the space requirements, if any, of such new programmes.

New courses and course changes in Agricultural Economics, Architecture, Community and Regional Planning, French, Nursing and Slavonic Studies, recommended by the Faculty of Graduate Studies. (P.5483-4)

Committee on Prizes, Scholarships and Bursaries

Dean Cowan)
Dr. Brockley) *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 Committee

At its September meeting Senate had returned the Committee's

Reports of Committees of Senate

Academic Building Needs Committee (cont'd)

report for reconsideration. At that time Senate had indicated that it would have been in a better position to judge whether the committee had in fact reached sensible conclusions had they presented Senate with at least a minimal amount of quantitative information. The Committee had therefore been asked to evaluate the criteria and weights they had used and, if possible, to carry out a sensitivity analysis so that members of Senate could see just how much criteria and weights mattered in deciding priorities. The Committee had attempted to comply with Senate's request and Dr. Smith presented the Committee's revised report.

The basic recommendations of the revised report were:

1. That it was not possible to delay all building until a comprehensive plan for future development was available since there were urgent needs that had to be met now. A good case could be made for the immediate allocation of most of the 40 million dollars' worth of proposals for new buildings which had been brought to the Committee's attention.

2. That the first four requests for additional accommodation in order of priority were:

   Faculty of Commerce and Business Administration
   Departments of Civil and Mechanical Engineering jointly
   North Wing for the Biological Sciences complex
   Department of Anthropology and Sociology

Reports of Committees of Senate

Academic Building Needs Committee (cont'd)

The following is a summary of the sections of the report pertaining to the above priorities.

Commerce and Business Administration

Both undergraduate and graduate enrolment has increased considerably over the last five years and is expected to continue to do so. In addition the Faculty provides extra-mural and continuing education courses for approximately 6,000 part time students in the community and this too is expected to increase. The number of full time Faculty was 35 in 1966, and is now 74 and by 1974 exclusive of part-time people is expected to reach 98. At the moment there are 1,200 undergraduate students, 200 masters candidates, and 31 Ph.D. candidates.

Classes are given in a wide variety of buildings, there is a severe lack of study space at the graduate level and the faculty is crammed into 30,000 sq.ft. of office, laboratory and reading space spread over six different buildings.

Joint Civil and Mechanical Engineering

The Committee agreed with the proposal for a joint Civil and Mechanical Engineering building previously advocated by Senate.

In the past 15 years graduate enrolment in Civil Engineering had increased considerably and support for research has gone from

Reports of Committees of Senate

Academic Building Needs Committee

Joint Civil and Mechanical Engineering (cont'd)

zero to $450,000. During this period of vigorous growth the Civil Engineering Department has in fact lost several thousand square feet to the Computing Centre. While some additional space has been provided in other buildings there is still a serious shortage of space. Should Civil Engineering vacate its present building, good quality space amounting to approximately 26,000 sq.ft. would provide a convenient and suitable solution to the expansion problems of the Computing Centre and Computer Science.

Enrolment and research in Mechanical Engineering had caused overcrowding to the point where conditions are hazardous and where industrial safety standards are not being met. Undergraduate enrolment may continue to expand; however, graduate enrolment is not expected to grow significantly for the next few years due in part to the effect of a recent N.R.C. edict that foreign nationals may not be supported as graduate students on N.R.C. grants.

Members of the Committee who visited the Department of Mechanical Engineering confirmed that conditions in the 46 year old building were indeed deplorable.

It was pointed out that graduates in Mechanical and Civil Engineering are only acceptable for registration as professional engineers when awarded their degrees by schools graded by the engineering profession; thus there are certain objective standards

Reports of Committees of Senate

Academic Building Needs Committee

Joint Civil and Mechanical Engineering (cont'd)

which must be met by all engineering schools and in the case of Mechanical Engineering there is now reason to worry that these minimum standards may not be met. It was reported that modifications to the existing building were not possible and that a considerable amount would be required merely to meet the fire regulations. A joint building of Civil and Mechanical Engineering permits the total request from both departments to be reduced from 88,000 to 65,200 net sq.ft.

North Wing - Biology, Animal Resource Ecology and Oceanography

The proposal that a north wing be constructed to the Biological Sciences complex satisfies high priority needs of the Faculties of Science and Graduate Studies. The head of the Zoology Department had reported that there had been a tremendous increase in the demand for Biology programmes at the Junior College level and this flood would soon wash into our Third and Fourth Year classes in the Life Sciences. The effect of this had been felt already with the increased enrolment in this area in 1971. This coincided with a necessity for laboratory work in advanced undergraduate and post graduate areas to become much more sophisticated. Hut space that served well for 25 years was reported to be quite unsuitable for certain types of work now. The Committee recommended the original idea of a north wing for the Biological Sciences complex be

Reports of Committees of Senate

Academic Building Needs Committee

North Wing - Biology, Animal Resource Ecology and Oceanography (cont'd)

implemented now. This would provide laboratory and lecture room space at the undergraduate level and in so doing would release existing space in permanent buildings and huts and thereby ease the problems of Oceanography and Animal Resource Ecology.

Anthropology and Sociology

The facilities in this department are spread over a number of buildings with the usual problems of overcrowding and inadequate facilities. The archaeology laboratory in the basement of the Mathematics building is in a scandalous condition with the hot water pipes for the heating of the building maintaining an atmosphere of tropical heat. The Museum of Anthropology in the Totem Park area is not satisfactory and not properly usable as a teaching and research museum and there is a maximum degree of decay of materials displayed and stored there.

The Committee recommends that additional space for the Department of Anthropology and Sociology be assigned priority number four and if the University implements this priority, the Committee hopes that all the department's activities will be brought together into a building adjacent to the Museum of Man for which the Federal Government has provided a grant of $2,500,000.

Reports of Committees of Senate

Academic Building Needs Committee (cont'd)

Education - request for Library and Curriculum Resource Centre

The Committee was not convinced that the Faculty of Education was making the best use of its existing facilities and had the impression that increased efficiency could result from the re-scheduling of classes and by expanding the hours of usage of audio-visual and other services.

The Committee hoped to receive further detailed evidence from the faculty of Education in support of its needs in the coming year.

The following sub-criteria had been considered the most important in reaching the above recommendations for priorities on the 24 proposals under consideration:

Rising student demand for programmes
Adverse comparisons with other universities
Relevance to society as perceived by U.B.C.
Congestion in administration areas
Hampering of programmes
Demand for graduate student study space

However, the final list of priorities was made not only by mechanical application of criteria but as a result of a study of individual requests, comparative assessment of competing needs, exercise of individual judgement, and some interviews with those most concerned.

Reports of Committees of Senate

Academic Building Needs Committee (cont'd)

Dr. Smith)
Dr. Hall)

That the report be forwarded to the President and the Board of Governors for their consideration and decision together with the full transcript of the debate within Senate.

The basic criticisms of the report were that the criteria and weights used and the sensitivity analysis from which the conclusions of the report were partially based may not have resulted in reliable recommendations.

If Senate supported the recommendations of the report there was thought to be a danger that the report may be considered as a pattern for procedures for judging future needs and since the procedures used had been of an ad hoc nature this was thought to be undesirable.

Before spending any more money it was felt that the establishment of criteria for the overall assessment of space requirements was essential. One opinion expressed was that in recent years piece-meal ad hoc structure type buildings had turned what must be one of the most magnificent sites in North America into one of the ugliest. It was also pointed out that there had been a tendency to isolate sections of Faculties, an example being the siting of some of the departments in the Faculty of Science.

It was suggested that criteria such as fire hazards and inability to meet safety standards, lack of classroom space and campus-wide dispersal of lectures was a university-wide problem and that while the

Reports of Committees of Senate

Academic Building Needs Committee (cont'd)

Committee had considered the 24 proposals with which it had been presented there were undoubtedly other cases of equal need that had not been considered.

The Committee appeared to feel that its responsibility ended at recommending the priority of need for additional space requirements and that it was the responsibility of the Board of Governors to decide whether or not this could best be achieved by new buildings or by other means.

In amendment:

Dr. Hardwick)
Dr. McDowell) *and further, that the Committee be expanded to take into account individuals who expressed dissident opinions.*

Lost

Following further debate the question was called. A suggestion that members be polled by name was rejected but it was agreed that the count of votes be recorded.

The motion was put and carried, 49 in favour and 11 against.

Dr. Restrepo gave notice of the following motion:

> "That a committee be established to consider the relationship between existing physical plant and architectural planning on this campus and the academic functions of the University; the membership of this committee to include at least two students, an architect and a person familiar with community organization".

Reports of Committees of Senate

Academic Building Needs Committee (cont'd)

It was suggested that before the Committee made any future recommendations on building priorities it should submit to Senate a set of procedures for approaching the problem. Dr. Smith stated that his Committee would welcome suggestions as to what better approach could be made.

Proposals of the Faculties

Faculty of Agricultural Sciences

It was agreed that the proposal for new courses and course changes be referred to the Senate Curriculum Committee. (See Appendix 'B')

Faculty of Arts

Dr. McGregor)
Dean Kenny)

That Philosophy 410 be offered by correspondence as recommended by the Faculty of Arts.

Carried

Faculty of Commerce and Business Administration

Dean White)
Dr. Hall)

That an extension credit course, Commerce 459, be offered during the 1971-72 session as recommended by the Faculty of Commerce and Business Administration.

Carried

Faculty of Education

The proposal for course changes and programme revisions was referred to the Senate Curriculum Committee. (See Appendix 'B')

Proposals of the Faculties (cont'd)

Faculty of Graduate Studies

Proposed new courses and course changes were referred to the Senate Curriculum Committee. (See Appendix 'B')

Faculty of Medicine

Dean McCreary)
Dr. Gibson)

That the name of the Department of Radiology be changed to "Department of Diagnostic Radiology".

Carried

School of Nursing

The Chairman introduced to Senate the new Director of the School of Nursing, Dr. Muriel Uprichard.

Dr. Gibson)
Dean McCreary)

That Senate approve the recommendation of the School of Nursing that the Calendar statement on admission requirements for the Nursing D programme be amended to include "work experience or attendance at an appropriate refresher course in nursing within the past five years to ensure knowledge and skills are current".

Carried

School of Physical Education and Recreation

A proposal to offer a new course was referred to the Senate Curriculum Committee. (See Appendix 'B')

Candidates for Degrees

The usual Fall list of candidates for degrees who had completed

Candidates for Degrees (cont'd)

their studies since Congretation in May was presented.

Dean Scarfe)
Dean Cowan)

That the students named on the various lists receive their degrees as recommended, and that the Registrar in consultation with the Deans concerned and the Chairman of Senate make any necessary adjustments.

Carried

Other Business

Dr. McGregor asked Senate to join him in congratulating President Walter H. Gage on receiving Canada's highest decoration, the Companion of the Order of Canada.

The meeting adjourned at 9.45 p.m.

The next regular meeting of Senate will be held on Wednesday, December 15, 1971.

Secretary

Confirmed,

Chairman

APPENDIX 'A'

New Awards Recommended to Senate

The B. C. Dentists' Wives' Association Book Award

A textbook in the field of Periodontics up to the value of $25 is offered annually by the B. C. Dentists' Wives' Association to the First Year Dental Hygiene student who achieves the highest standing in the course in Human Biology (D. H. 202).

Proficiency Prize in Dendrology (Forestry 111)

A prize of $200 is open to students in Forestry registered in Forestry 111 (Dendrology). This prize will be awarded to the student obtaining highest standing in the course at the close of the regular session.

The T. Eaton Co. Limited Scholarship in Marketing

A scholarship of $500, the gift of the T. Eaton Co. Limited, will be available annually in the Faculty of Commerce and Business Administration. Final selection for this award will be made by the Faculty to an outstanding undergraduate in Marketing who has completed the Third Year and is proceeding to the Fourth Year. If in any year no suitable candidate is available, the selection will be made from students of the Graduate Faculty in the Marketing area.

Rehabilitation Medicine Bursary

This bursary, of approximately $50, was established by the Staff, Students, and Graduates of the School of Rehabilitation Medicine. It will be awarded annually in the Fall to a student entering Fourth Year. The award will be given on the basis of good academic standing and overall personal qualities. Financial circumstances may also be considered. Selection will be made upon recommendation by the Rehabilitation Medicine Awards Committee. Applications should be submitted to the School of Rehabilitation Medicine each September.

APPENDIX 'B'

Course and Curriculum Changes

FACULTY OF AGRICULTURAL SCIENCES

Agricultural Economics

New Course	415 (1½) Animal Economics
Changes	374 change in description 400 change in prerequisites 423 change in units

Animal Science

New Courses	415 (1½) Animal Economics 421 (1½) Productivity of Grazing Animals
Changes	318 change in number and description 402 change in units, time allocation and prerequisite requirement

Poultry Science

Changes	306 change in title 402 change in units, time allocation and prerequisite requirement

Soil Science

Changes	312 change in number, title, description and content 314 change in description 414 change in title and description 416 change in title and description 417 change in cross listing of courses

Change in Regulations

General:

(i) Veterinary Medicine - P.40 Calendar

Physics: add 105 and 115; replace Zoology 203 by Science elective (1½ units)

(ii) Departmental Research Project
(carries number 425 in each department)

Where a double major is involved, in place of 2 separate 1½-unit research essays, departmental chairmen should

APPENDIX 'B'

Course and Curriculum Changes

FACULTY OF AGRICULTURAL SCIENCES

Change in Regulations (cont'd)

arrange for a joint 3-unit essay or a 1½ unit essay plus 1½ units of course-work.

FACULTY OF EDUCATION

Elementary Division

Changes

333 change in time allocation
408 change in unit value
419 change in title, description and unit value
431 change in unit value
424 change in title and description
489 change in title
491 change in time allocation

Programme Expansions

(i) Education of Young Children - a diploma programme approved by Senate January 8, 1969 - broader selection of courses.

(ii)* Canadian Studies - an addition to the academic majors.

(iii)* Teaching English as a Second Language for Elementary Teachers - an addition to the professional majors.

(* The major represents a set of already existing courses).

FACULTY OF GRADUATE STUDIES

Commerce and Business Administration

New courses

524 (1½) Organization Development
525 (1½) The Measurement and Evaluation of Individual Behavior in Work Organizations

APPENDIX 'B'

Course and Curriculum Changes

FACULTY OF GRADUATE STUDIES (cont'd)

Community and Regional Planning

Changes	520 and 522 change in unit value

Creative Writing

New course	506 (3) Advanced Writing for Radio, Screen and Television

Surgery

New courses	514 (1) Advanced Plastic Surgery I 515 (1) Advanced Plastic Surgery II

SCHOOL OF PHYSICAL EDUCATION AND RECREATION

New course	381 (1½) Sociological Aspects of Sport