UNIVERSITY OF DELAWARE
NEWARK, DELAWARE
19711

September 21, 1976

MEMORANDUM

TO: All Faculty

FROM: Byron P. Shurtleff, Vice President
         University Faculty Senate

SUBJECT: Regular Senate Meeting, October 4, 1976

In accordance with Section IV, paragraph 6 of the Constitution, the regular meeting of the University Faculty Senate will be held on Monday, October 4, 1976 at 4:00 p.m. in room 110 Memorial Hall.

AGENDA

I.   Adoption of the Agenda.

II. Approval of the Minutes of the regular Senate meeting of September 13, 1976.

III. Remarks by President Trabant and/or Provost Campbell.

IV. Announcements:

  1. J. Pikulski, University Senate President

  2. Annual Report, Council on Teacher Education (Attachment 1)

  3. Report on University Computer Programs and Facilities - S.B. Woo, Chairperson of Committee on Computers. (Attachment 2)

V.   Old Business - None.

VI. New Business

  A. Resolution from the Executive Committee:

      RESOLVED that, pursuant to Paragraph 6, Section IV, of the Faculty Constitution, the Senate hereby authorizes the President of the Senate to increase the schedule of regular meetings during the current Senate term.

  B. Recommendation from the Committee on Rules (S. Van Camp, Chairperson) to change the last paragraph of the charge to the Committee on Committees (Senate Bylaws, Section III-I-15 of the Handbook) to remove the ambiguity with regard to the length of term of the members of the Committee on Committees:

Present Reading: The committee shall consist of one member elected from and by each Unit as defined in the Constitution of the Faculty, and three Faculty members-at-large elected by the Faculty Senate, one of whom shall be designated by the Senate as chairman. At least one committee member shall be a senator.

Recommended: The committee shall consist of one member elected for a two year term from and by each Unit as defined in the Constitution of the Faculty, and three Faculty members-at-large elected for two year terms by the Faculty Senate. Following this election the Faculty Senate shall select one of the faculty designees to act as chairperson for a one year term. At least one committee member shall be a senator.

C. Recommendation from the Committee on Rules (S. Van Camp, Chairperson) to change Section III of the Bylaws, Standing Committee System of the Faculty and its Senate: General Provisions Regarding Committees (I-13 of the Handbook), fourth paragraph:

Recommended: Elections for the standing Committee on Committees shall take place each *Spring* so that this Committee is fully constituted on October 1 of each year; . . . (No change in the rest of the paragraph.)

D. Recommendation from the Coordinating Committee on Education (L. Mosberg, Chairperson) regarding Winter Session:

RECOMMENDED that on the basis of two years of evaluation Winter Session be made a permanent part of the academic calendar subject to the normal evaluation procedures of other permanent programs of the University. The Senate recognizes and places value on having a viable "Winterim"--project/experimental course component to the Winter Session program. The Senate supports the provision of funds for these courses and projects, and recommends that given the inflationary increases in travel costs, funding be continued at or greater than the level for 1975-76.

(Note: A Summary and Recommendations from the report on Winter Session of the Educational Innovation and Planning Committee, B. Morstain, Chairperson, to the Coordinating Committee on Education is included as Attachment 3 to this Agenda.)

E. Request for Senate confirmation of faculty appointments to the Student Judicial System Hearing Board and Appellate Court (from R. Eddy, Dean of Students and Chairperson, Appointment Committee):

Hearing Board: Prof. Diana A. Krikorian (Nursing), two year term
    Alternate: Ms. Sandra A. McCabe (Home Economics)

Appellate Court: Dr. Leslie F. Goldstein (Political Science), two year term
    Alternate: Dr. Samuel Gaertner (Psychology).

F. Recommendation from the Rules Committee (S. Van Camp, Chairperson) and the Graduate Studies Committee (G. Haenlein, Chairperson) to amend, by the addition of a sentence, Section IV-2 of the Constitution of the Faculty:

The duly constituted undergraduate student government and the graduate student government will each elect two students from the full-time student body. *In the absence of a duly constituted graduate student government the Committee on Graduate Studies shall have the responsibility of arranging the election of the graduate student senators.*

(Note: The italicized sentence has been added.)

G.   Such items as may come before the Senate.   (No motion introduced at this time may be acted upon until the next meeting of the Senate.)

Attachments are in the hands of your Senators.   Distribution also includes one copy for each ten faculty members of each department.

BPS/b

Attachments: 1. Annual Report, Council on Teacher Evaluation
2. Annual Report (1975-76), Senate Computer Committee
3. Summary and Recommendations from the Report on Winter Session of the Senate Committee on Educational Innovation and Planning.

UNIVERSITY FACULTY SENATE
Committee Activities

This summary reflects items contained in the Monthly Committee Reports for September.

Academic Freedom
Consideration of follow-up to Senate request for administrative action to redefine academic freedom.

Committee on Committees
Appointments to vacancies on Senate committees

Coordinating Committee on Education
Review of guidelines for the establishment of departmental minors (with Undergraduate Studies)
Preparation of recommendations on Winter Session, for presentation to the Senate
Discussion of the Committee's role in the Governor's Committee on Public Higher Education
Preparation for Open Hearing on PLATO (with Computer Committee)
Review of report from the Study Committee on Honors

Faculty Welfare and Privileges
Development of pre-termination hearing procedures
Revision of the Committee's charge
Reworking of sections III-N-2 and III-1-1 of the Handbook
Hearing student grievances and appeals
Investigation of the accessibility of faculty files

Graduate Studies
Review of the Graduate Student Enrollments Survey
Student representation on the Committee

Instructional Resources
Tour of new instructional resource facilities in Kirkbride Hall
Summary of IRC Annual Report
Review of COPE evaluation materials for IRC

Rules Committee
Revision of Charge to the Committee on Committees

Undergraduate Studies
Establishment of guidelines for departmental minors
Student representation in the Senate
Consideration of BU 300 Career Directions
Consideration of BS Degree in Geophysics
Consideration of appropriateness of advertising University courses

The following committees did not meet:

Physical Planning & Utilization   Promotions and Tenure

The following committees did not file reports:

Academic Ceremonies   Performing Arts
Academic Services   Research
Adjunct Academic Affairs   Retrenchment
Computer Committee   Speakers Board
Cultural Activities & Public Events Student and Faculty Honors
Educational Innovation & Planning   Student Life
Fine Arts & Exhibitions   Undergraduate Admissions and Standing
International Studies   Undergraduate Records & Certification
Library Committee   Visiting Scholars
Nominating Committee   Winterim

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OFFICE OF THE DEAN
COLLEGE OF EDUCATION
PHONE: 302-738-2312

September 10, 1976

TO   : Provost L. Leon Campbell

FROM   : Daniel C. Neale, Chairman
              University of Delaware Council on Teacher Education

SUBJECT   : Annual Report, 1975-76

        The University of Delaware Council on Teacher Education was created by President Trabant on June 21, 1973, "to consider such matters relating to teacher education as the Executive Committee of the Council may determine." The Council, which is advisory to the Provost and to the Dean of Education, is broadly representative of the University community and includes the Chairpersons of the Undergraduate, Graduate and Coordinating Committees of the Senate. The membership of the Council during 1975-76 is attached. The Council is asked to make an annual report to the Provost with information copies to members of the University Senate.

National Accreditation of Teacher Education Programs

        A major activity of the Council during 1975-76 was consideration of a proposal that the University of Delaware seek accreditation from the National Council for Accreditation of Teacher Education (NCATE). Concluding a year of study, the Council held an open hearing on December 10, 1975, and then recommended to the Provost that the University of Delaware seek NCATE accreditation beginning in 1978-79, when state approval of teacher education programs must be renewed.

        After approval by Provost Campbell and President Trabant of initial steps in the accreditation process the Council established a Task Force on Accreditation with Associate Dean Billy E. Ross as Chairman to coordinate preparations for the site visit.

Desegregation of New Castle County Schools

        A second major activity of the Council was the review of developments related to the desegregation of New Castle County schools. A committee was appointed under the leadership of Dr. James Newton to study the need for multicultural teacher education programs. Also, the Council discussed appropriate roles of the University of Delaware in desegregation, as follows:

UNIVERSITY COUNCIL ON TEACHER EDUCATION, 1975-76

*Daniel C. Neale, Chairman	Dean, College of Education
*Billy E. Ross, Vice-Chairman	Associate Dean, College of Education
Val Arnsdorf	Professor, Department of Curriculum and Instruction
Ralph Barwick	Associate Dean, College of Agriculture
*Willard Baxter	Professor, Department of Mathematics
*Catherine Bieber	Acting Dean, College of Home Economics
Henry Cady	Professor and Chairman, Department of Music
Raymond Callahan	Associate Professor, Department of History
Robert M. Hannah	Assistant Professor and Chairman, Division of Physical Education
Patricia Hodgson	Representative, Education Graduate Association
Ernest Mabrey	Representative, Undergraduate Council of the College of Arts and Sciences
Jon Magoon	Associate Professor, Department of Educational Foundations
*James Newton	Director, Black Studies Program, College of Arts and Sciences
*John Pikulski	Associate Professor, Department of Curriculum and Instruction
lle Robertson	Associate Director, Academic and Professional Programs, Div. of Continuing Education
ward Rosenberry	Professor, Department of English
Patricia Shoff	Instructor, Department of Office Systems Administration/Business Education
Rosemary Tarrant	Representative, Undergraduate Council of the College of Home Economics
Ulrich Toensmeyer	Associate Professor, College of Agriculture
Ronald Vukelich	Associate Professor, Department of Professional Services
*Carol Waddington	Representative, Undergraduate Council of the College of Education
Althea Williams	Assistant Professor, Department of Art

*Member, Executive Committee, UCTE

SENATE COMPUTER COMMITTEE

Annual Report - 1975-76

Shien-Biau Woo, Chairperson

During the 1975-76 academic year the five members of the Senate Computer Committee (SCC) met about once every two weeks in joint sessions with ten other members appointed by the Provost. Together, the fifteen members form the University Advisory Committee on Computer Policy (UACCP). The complete record of UACCP committee business is contained in the minutes which are filed both in the University Senate Office and in the main office of the Computing Center. The purpose of this report is to summarize the two major items of business considered by the Committee in the 1975-76 academic year.

I. Developing a Recommendation to the Provost for a New Computing System to Replace or Update the Burroughs 6700 System.

A. Background Studies: The Committee first studied the supply and demand characteristics of computing needs at the University of Delaware. The findings are likely to be of continuing interest to the UACCP for the next few years. Hence a summary of the findings are appended herewith as Appendix A.

B. Guideline from the Provost's Office: The Provost agreed with the Committee that the campus computing facilities must be expanded to keep pace with the fast growing demand. However, in view of the financial constraints faced by the University, he indicated that any recommendation for increased computing capabilities must be, in the long run, essentially at zero cost to the University. In order to meet this guideline, the Computing Center has con-tracted about 100K worth of computing services to the sister colleges in the state for the coming fiscal year. The Committee deems the practice to be consistent with its goals to support educational computing needs of the regional area.

C. Committee Recommendations and the Provost's Decision: The background studies reveal that the Burroughs 6700 is quite cost-effective. It ranks 7th among 25 systems at 25 universities (see Appendix). Its biggest weakness is a lack of number crunching power.
The Committee recommended, with equal weight, two options. Both options are equal in cost and will satisfy the growing demand for two to four years without major modifications. However, their approach to overcoming the known number crunching weakness is different. Option 1 proposes keeping part of the B6700 system and adding a DECK 10 system. It is intended to initiate in-house, medium-sized number crunching capabilities. Option 2 proposes expanding the Burroughs system, and buying some hardware facilities to enable "convenient" transportation of number crunching programs to external computing facilities where number crunching is done cost-effectively.
The Provost decided in favor of Option 2.

II. Formulating a Recommendation to the Provost on the PLATO Project (Computer Assisted Instruction).

A very thoughtful subcommittee report on PLATO is attached herewith

as Appendix B,* though the report has not yet been discussed in a full UACCP meeting.

My summary of this report is as follows. It recommends that the number of PLATO terminals be expanded from the fetus-sized model-test level of eight to a field-test level of 16 to 32, depending on the availability of funding. After that, expansion should stop and very serious evaluation of its cost-effectiveness should begin. Since evaluating the cost-effectiveness of a teaching method on an absolute basis is very difficult, if not impossible, the report recommends evaluation on a relative basis, comparing PLATO with traditional teaching, films, TV, flash cards, hiring more teaching assistants, reducing class size, and other computer-assisted teaching methods. The report gives examples of some of the instructional areas where PLATO is likely to be uniquely effective. It notes that PLATO is very expensive. It makes detailed recommendations for the evaluation of PLATO, with appropriate Senate involvement, and for changes in the organizational structure of Delaware computer-assisted education efforts.

*Since Appendix B is 20 pages long it is not attached, but is available in the Senate office.

SBW/b

APPENDIX A

Supply and Demand Characteristics of
Computing Needs at the University of Delaware

Demand Characteristics 1: Over a period of two years there was a 100% increase in demand for computing while the increases in the size of the student body and of the faculty were less than 10%.

In arbitrary units, using 1973 as the base year

O : CPU-time consumed at the Burroughs 6600 (Central Processor Unit)

□: size of the faculty
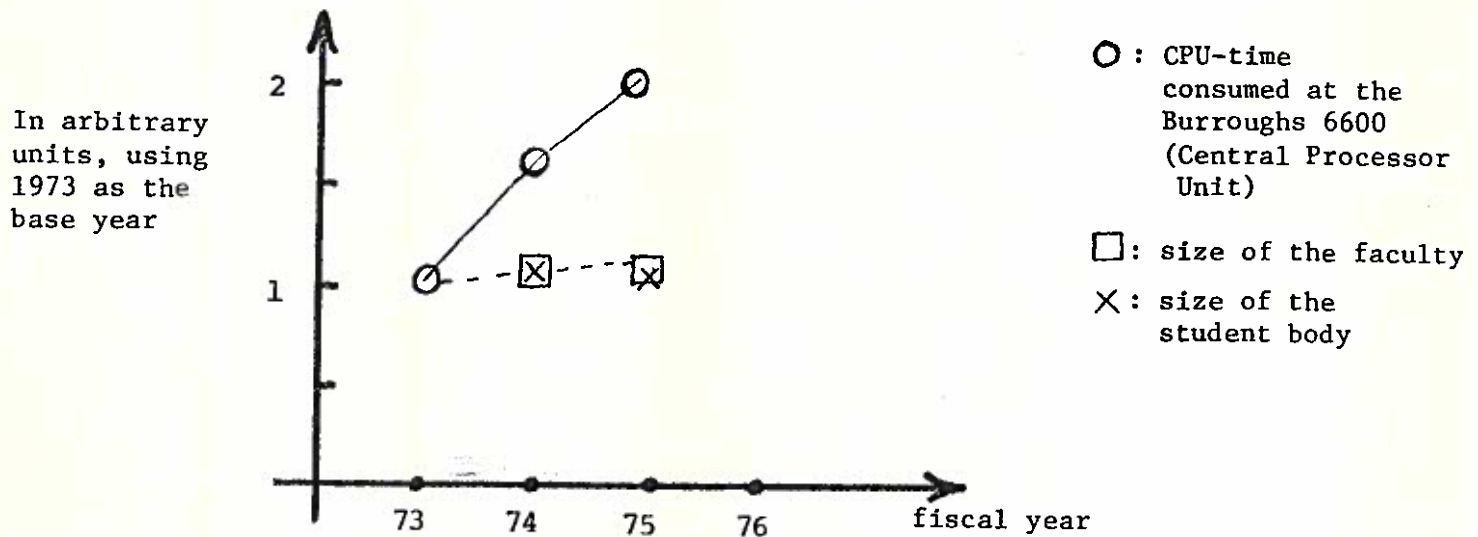
X : size of the student body

Figure 1

        The "surprising" trend seen in Figure 1 is also detected at other universities, except for institutions where financial constraints mandated a complete stoppage of computing growth.

Demand Characteristic 2: Percentage usage of the computing faculities by the University Administration is about or slightly below, depending on the interpretation, the national average.

65%   Research and Instruction

35%   The Administration

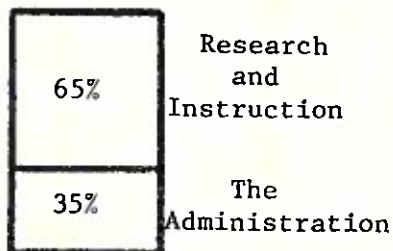45%   Research and Instruction

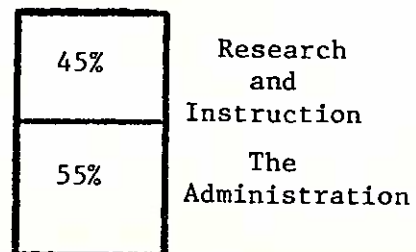55%   The Administration

Fig. 2: Percentage CPU time consumed

Fig. 3: Percentage of the total billing charged to the two groups

Supply Characteristcs 1: The computing facilities at the University of Delaware are centered around the B6700. One way of measuring its performance is to look at its cost-effectiveness in the three areas shown in Figure 4.
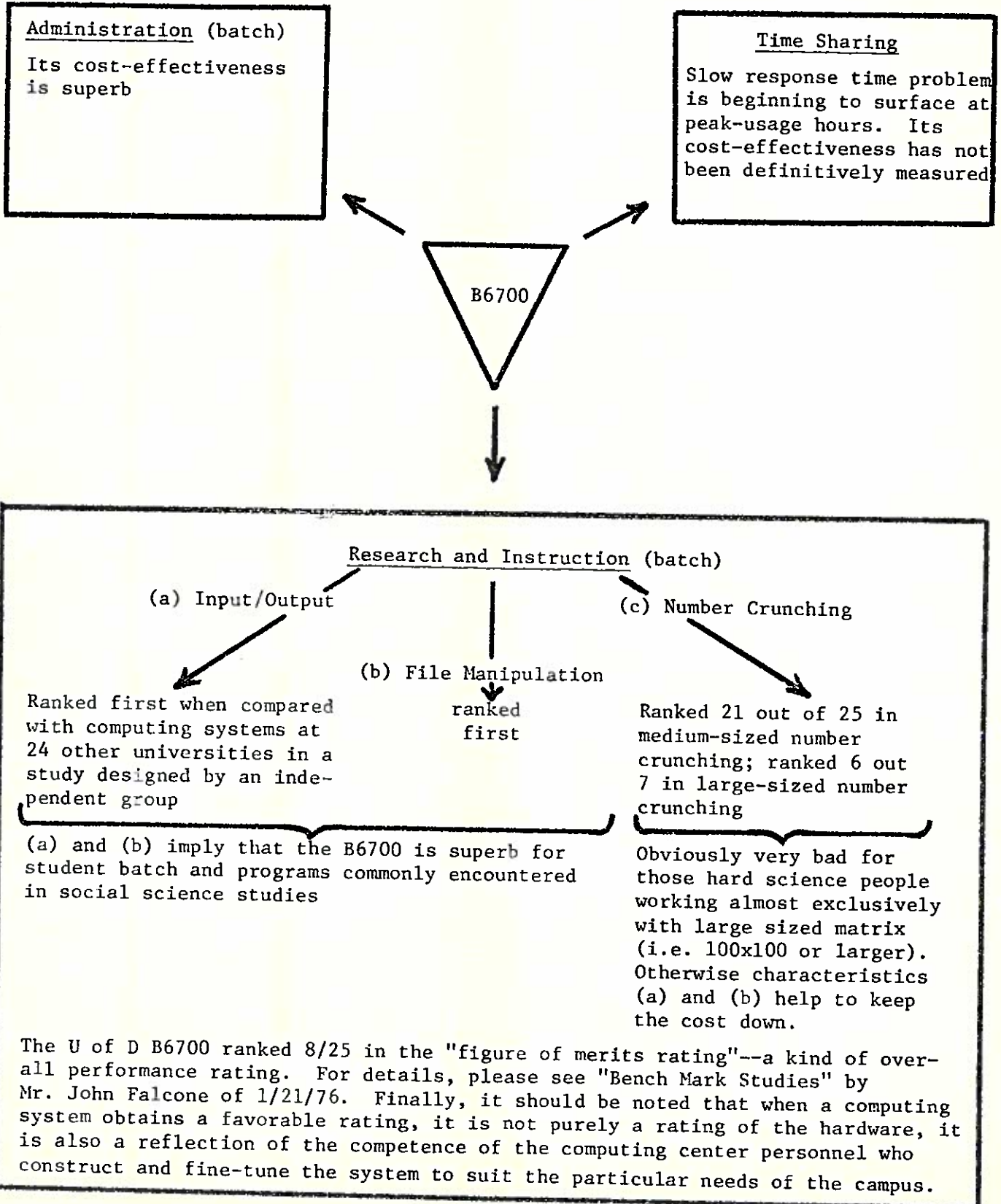

Administration (batch)

Its cost-effectiveness is superb

Time Sharing

Slow response time problem is beginning to surface at peak-usage hours. Its cost-effectiveness has not been definitively measured

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B6700

Research and Instruction (batch)

(a) Input/Output

(c) Number Crunching

(b) File Manipulation

Ranked first when compared with computing systems at 24 other universities in a study designed by an independent group

ranked first

Ranked 21 out of 25 in medium-sized number crunching; ranked 6 out 7 in large-sized number crunching

(a) and (b) imply that the B6700 is superb for student batch and programs commonly encountered in social science studies

Obviously very bad for those hard science people working almost exclusively with large sized matrix (i.e. 100x100 or larger). Otherwise characteristics (a) and (b) help to keep the cost down.

The U of D B6700 ranked 8/25 in the "figure of merits rating"--a kind of overall performance rating. For details, please see "Bench Mark Studies" by Mr. John Falcone of 1/21/76. Finally, it should be noted that when a computing system obtains a favorable rating, it is not purely a rating of the hardware, it is also a reflection of the competence of the computing center personnel who construct and fine-tune the system to suit the particular needs of the campus.

Figure 4

Supply Characteristic II:

(a) $$\left[\frac{\text{Computer Budget}}{\text{Total Instruction Budget}} \right]$$

The University of Delaware ranks 4th among 12 other universities of similar size ($\sim$15,000 students). The University of Delaware ranks first among the six state supported ones.

(b) $$\left[\frac{\text{Computer Budget}}{\text{Student}} \right]$$

The University of Delaware is tied for 3rd and 4th among comparable universities. It is below SUNY (Binghamton), and the University of Connecticut; tied with the University of Massachusetts; above SUNY (Buffalo), Syracuse, Rutgers, Temple, the University of Virginia and the University of Maryland. As a matter of reference, one should bear in mind that Princeton and Dartmouth, two universities whose computer centers are world-renowned, outspend the University of Delaware by a factor of 4 in this category.

(c)   Applications for funding computing in research and instruction enjoy very favorable support from the budget of the Computing Center. It is such an attractive feature of the University that it should be advertised more in the recruiting of new faculty members. About 4% of the research and instruction computing expenses for fiscal year 1975 were supported by external sources.

S-BW/b

Winter Session Report
Committee on Educational Innovation and Planning

Summary and Recommendations

Based on comments from members of the Winter Session Office and from responses by academic units, the 1976 Winter Session program appeared to operate more smoothly than in the previous year. This year, students had a confirmation of course registrations prior to actually paying tuition fees, apparently dissipating one source of dissatisfaction with the 1975 program.

Enrollments in the 1976 program increased, while the "profile" of student registrants and course load patterns remained fairly similar to that of 1975. Although "Winterim-type" projects, independent study, and experimental courses continue to be offered in Winter Session, the Committee notes some decline in enrollments in the first two categories.

At this juncture, the Committee does not view this decline with alarm. First, the data are based on only a two-year period. Second, "traditional" courses perhaps are what the majority of students and/or faculty desire in Winter Session. Few would argue that a program should not be responsive to the interests of its participants. Both traditional courses and experimental course/projects are possible in Winter-Session, and it could be advanced that students and faculty will distribute themselves according to their personal inclinations.

However, it is tenuous to rely on enrollment data to infer "interest" or more substantively, to use enrollments to judge the degree to which the WS program does in fact serve the needs of students and faculty. The evaluative information available to the Committee was drawn from responses to a survey of academic units. As described in Section II, comments regarding Winter Session were generally positive. The Committee thus endorses the following:

Recommendation 1: Winter Session should be continued for 1976-77.

Evaluative information from students regarding Winter Session was not available to the Committee. We feel that knowledge of student reactions to WS would be valuable to the University community as faculty opinion is but one component in assessing the nature and outcomes of WS. Thus,

Recommendation 2: At the close of the 1976-77 Winter Session, a sample of students should be surveyed to assess their reactions to the nature of WS and their reasons for participation (or non-participation) in the program. The survey might best proceed under the auspices of the Winter Session Office, with input and consultation from the Coordinating Committee on Education or its designate.

The Committee is curious as to whether students are using WS to accelerate their degree program and graduate a semester early. Is this in fact a major outcome of students' participation in WS?

Recommendation 3: Information should be made available to the Comittee as to the number and characteristics (e.g. major, achievement level) of students who complete their degree program early by participating in WS. This information may in part be derived from student "self-reports" in the survey mentioned above, or from information provided by the Records Office.

The Committee also makes the following recommendations:

Recommendation 4: Up to this point, the enrollment information has provided an overview of class characteristics (e.g. freshman, sophomore, etc.), and enrollments in department/college offerings. For 1976-77, the Committee would also like to

examine enrollments based on the major/program classification of students. For
example, of the total number of majors in a department or program in the fall 1976
term, what proportion enroll in the WS program?

Recommendation 5: For two consecutive years, the opinions and reactions of
academic units have been solicited. The Committee feels that this should be con-
tinued, but on a periodic basis. The responses this year were generally parallel to
those of last year.

Recommendation 6: The committee recognizes and places value on having a viable
"Winterim"-project/experimental course component to the WS program. The Committee
supports the provision of funds for these courses and projects, and recommends that
given the inflationary increases in travel costs, funding be continued at or greater
than the level for 1975-76.

One final note. The Committee appreciates the assistance of the Winter Session
Office in that its report has been quite helpful in our deliberations. Moreover,
putting together a sizeable and diverse academic program is a herculean task, and
the staff of the Winter Session Office did an effective job from reports available
to this Committee.

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