

MEETING OF THE BOARD OF TRUSTEES
OF THE
UNIVERSITY OF ILLINOIS

October 16, 1968



The October meeting of The Board of Trustees of the University of Illinois was held in the Chicago Illini Union on the Medical Center campus, Chicago, Illinois, on Wednesday, October 16, 1968, beginning at 9:30 a.m.

President Timothy W. Swain called the meeting to order and asked the Secretary to call the roll. The following members of the Board were present: Mr. Howard W. Clement, Mr. Donald R. Grimes, Mr. Ralph C. Hahn, Mr. Earl M. Hughes, Mr. Harold Pogue, Mr. Timothy W. Swain, Mr. Kenney E. Williamson. Mr. Theodore A. Jones, Mr. Ray Page, Governor Samuel H. Shapiro, and Dr. James A. Weatherly were absent.

Also present were President David D. Henry; Executive Vice President and Provost Lyle H. Lanier; Chancellor Joseph S. Begando, University of Illinois at the Medical Center; Chancellor J. W. Peltason, University of Illinois at Urbana-Champaign; Chancellor Norman A. Parker, University of Illinois at Chicago Circle; Dr. Eldon Johnson, Vice President of the University; Mr. C. S. Havens, University Director of Physical Plant Planning and Construction; Mr. C. E. Flynn, Assistant to the President and University Director of Public Information; Mr. James J. Costello, University Counsel; and the officers of the Board, Mr. H. O. Farber, Comptroller, Mr. R. R. Manchester, Treasurer, and Dr. Earl W. Porter, Secretary.

MINUTES APPROVED

The Secretary presented the minutes of the meetings of the Board of Trustees on January 17, 1968, February 21, 1968, March 20, 1968, April 17, 1968, and May 15, 1968, press proof copies of which had previously been sent to the Board.

On motion of Mr. Williamson these minutes were approved as printed on pages 853 to 1039 inclusive.

FINANCE COMMITTEE MEETING

The President of the Board asked the Chairman of the Finance Committee to convene the Committee to consider Part II of the Biennial Budget Request for Operations for 1969-71. All members of the Committee were present with Mr. Grimes in the Chair.

The President of the University and the Executive Vice President and Provost discussed the document in detail, providing background information as to the internal review that led to its development as well as the particulars of the various sections. The Provost emphasized that a large proportion of the request was based upon differential formulae developed in consultation with the staff of the Board of Higher Education.

The Provost requested that the sum of \$1,174,880 for salary improvement for interns and residents at the Research and Educational Hospitals be included in the action of the Trustees and that appropriate changes in the summary totals be made.

Mr. Williamson moved approval of the document as submitted including the special addition requested, such approval to carry with it authorization of the administration to make such corrections as would be necessary in the light of final calculations. This motion carried unanimously.

MORROW PLOTS

On September 12, 1968, the Morrow Plots, an agricultural experiment field located in the middle of the campus of the University of Illinois at Urbana-Champaign, were officially designated a National Historic Landmark. Congressman William L. Springer stated in introducing the remarks made on that occasion in the *Congressional Record* of October 1, 1968: "The Morrow Plots, begun in 1876, were the first field experiment plots established by a college or university in the United States. The lesson they have taught us has a great meaning for the world today. The lesson is that through scientifically proved practices, the productive capacity of an acre of land can be multiplied fourfold. Truly, as stated by Dr. M. B. Russell, the Morrow Plots stand as a symbol of hope that hunger and privation are not the inevitable fate of man."

A bronze plaque from the United States Department of the Interior, National Park Service, will be displayed at the site; and a certificate of registration is on file with the Secretary of the Board of Trustees.

BUSINESS PRESENTED BY THE PRESIDENT OF THE UNIVERSITY

The Board considered the following reports and recommendations from the President of the University.

PRESIDENT'S REPORT

President Henry presented a report on selected topics of current interest, copies of which were distributed at the meeting, and a copy was filed with the Secretary of the Board.

BIENNIAL BUILDING PROGRAM FOR 1969-71

President Henry reported on the recommendations of the Board of Higher Education on the University's Building Program as acted upon on October 1, and pointed out that the Board would wish to take this action into consideration at an early meeting. He noted that the administration would be prepared to recommend that the Board of Trustees accept the reduced levels for capital improvements as recommended by the Board of Higher Education, stating that he would bring a recommendation to the Trustees in November.

BIENNIAL OPERATING BUDGET FOR 1969-71 — PART II

(1) In order to facilitate its review of the budget requests for operations during 1969-71, the staff of the Board of Higher Education asked the state universities to submit their proposals in two parts — Part I by October 1 and Part II by November 1, 1968.

The Board of Trustees on September 18, 1968, approved Part I of the University's request, which included increases for the following four categories: Operating Costs of New Buildings, New Programs, Program Improvement and Expansion, Other Specific Items.

The recommendations presented in the following pages present provisional estimates of the increases requested under the remaining six budget categories (Part II). In addition, a summary schedule is included showing the University's entire 1967-69 appropriation for operations and a provisional total budget request for 1969-71.

Certain of the budget figures are provisional since there has not been sufficient time following the close of registration to calculate precisely certain of the values required for use in the budget formulae developed by the staff of the Board of Higher Education. Since the final figures should not differ significantly from those presented in the following document, authorization is requested to amend the report in accordance with the final calculated amounts and to submit them in a consolidated document (including Parts I and II) to the Board of Higher Education on November 1, 1968.

The provisional budget estimates for Part II have been prepared by the Executive Vice President and Provost and the Vice President and Comptroller, in consultation with the chancellors and other administrative officers concerned and in accordance with statutory requirements and the budget formulae developed by the staff of the Board of Higher Education.

I recommend approval of the budget estimates under the conditions outlined above and request authorization to submit them as revised to the Illinois Board of Higher Education on November 1, 1968. This amended document would be filed with the State Department of Finance by November 15, 1968, as required by law, and would be made available to other state agencies involved in budget review.

On motion of Mr. Grimes, the budget and other related recommendations were approved by the following vote: Aye, Mr. Clement, Mr. Grimes, Mr. Hahn, Mr. Hughes, Mr. Pogue, Mr. Swain, Mr. Williamson; no, none; absent, Mr. Jones, Mr. Page, Governor Shapiro, Dr. Weatherly.

Summary of Biennial Budget Requests for Operations — 1969-71¹

The table on the following page (Schedule A) presents a summary of all budget increases requested for 1969-71, together with the total budget appropriated by

¹ Since final calculations could not be completed until fall enrollment data were available, provisional figures were submitted and the President was authorized to make revisions. This record includes the revised figures as presented to the Board of Higher Education.

the Seventy-fifth General Assembly for 1967-69 and the corresponding total requested for 1969-71.

The first section of Schedule A shows that the biennial appropriation for 1967-69 was \$267,812,658, of which the sum of \$16,375,000 was provided from University income. The appropriation for 1967-68 was \$127,365,864 and that for 1968-69 was \$140,446,794.

Schedule A. Biennial Budget Request for Operations, 1969-71

A. Budgetary Summary — Seventy-fifth Biennium

	1967-68	1968-69	Total
General Revenue.....	\$119 365 864	\$132 071 794	\$251 437 658
Income Fund.....	8 000 000	8 375 000	16 375 000
<i>Total Seventy-fifth Biennial Appropriation.....</i>	<i>\$127 365 864</i>	<i>\$140 446 794</i>	<i>\$267 812 658</i>

B. Add Seventy-sixth Biennium Increases Requested

	<i>Annual Increases</i>		<i>Biennial Total</i>
	1969-70 ¹	1970-71	
1. Adjustments to the Base Budget Continue 1968-69 Level for Full Biennium.....			\$ 13 080 930
2. Statutory Increases Retirement System Contributions.....	\$ 12 904 190	\$ 2 004 780	27 813 160
3. Salary Adjustments.....	8 868 092	9 166 722	26 902 906
4. Increased Enrollments.....	7 280 820	4 693 252	19 254 892
5. Operating Costs of New Buildings.....	1 632 450	1 789 591	5 054 491
6. Price Increases.....	873 425	910 100	2 656 950
7. Refunds.....	216 775	45 750	479 300
8. New Programs a. Instruction.....	1 711 140	935 020	4 357 300
b. Organized Research.....	1 491 800	— 282 800	2 700 800
c. Public Service.....	0	0	0
9. Program Improvement and Expansion a. Instruction.....	941 641	355 624	2 238 906
b. Organized Research.....	296 905	129 700	723 510
c. Extension and Public Service.....	297 342	74 147	668 831
10. Other Specific Items.....	4 793 174	— 744 538	8 841 810
C. Total Increase.....	\$ 41 307 754	\$ 19 077 348	\$114 773 786
D. Add: Prior Year's Budget..... Seventy-fifth Biennial Appropriation.....	140 446 794	181 754 548	267 812 658
E. Total Budget for Seventy-sixth Biennium.....	\$181 754 548	\$200 831 896	\$382 586 444
F. Less: Income Fund for the Two Years.....	12 970 000	14 470 000	27 440 000
G. Budget from General Revenue..	\$168 784 548	\$186 361 896	\$355 146 444
H. Analysis of Increases by Funds Source ²			
Seventy-sixth Biennium (1969-71).....	\$355 146 444	\$ 27 440 000	\$382 586 444
Seventy-fifth Biennium (1967-69).....	251 437 658	16 375 000	267 812 658
<i>Increases.....</i>	<i>\$103 708 786</i>	<i>\$ 11 065 000</i>	<i>\$114 773 786</i>

¹ Funds required for the first year are doubled in computation of biennial total.

² Does not include \$1,694,908 from the Agricultural Premium Fund or rentals to the Illinois Building Authority.

The next section of Schedule A (section B) summarizes the increases requested for 1969-71, which total \$114,773,786. This sum represents an increase of approximately 43 per cent over the budget for 1967-69. The corresponding increase for the current biennium above the budget for 1965-67 was 31 per cent. As will be explained later, the greater relative increase requested for 1969-71 is due mainly to a 1967 statute requiring a much higher appropriation than heretofore for the State Universities Retirement System. If the figures for the Retirement System are omitted from both budgets, the percentage increase is only slightly higher for 1969-71 than for 1967-69 (33 vs. 29 per cent).

It should be noted also that some 83 per cent of the total increase for 1969-71 falls under the first seven categories and that the amounts were determined by state statutes or were calculated by using budget formulae and procedures developed by the staff of the Board of Higher Education and its Budget Formula Committee. Such items constitute almost 36 per cent of the 1967-69 appropriations, thus accounting for most of the increase of 43 per cent requested in the base budget. The "non-formula" items account for the remaining 7.3 per cent of the increase above the present biennium's total appropriation. The request for the latter type of increases two years ago amounted to approximately 6.5 per cent of the preceding biennium's total budget. Thus the University's request for increases in the "flexible" items is approximately the same percentagewise as it was two years ago.

Adding the increases proposed for 1969-71 to the base budget for 1967-69 gives a total of \$382,586,444 as the University's requested biennial appropriation for operations at all three campuses during the coming biennium. Of this total, the sum of \$27,440,000 would be provided from the University's income fund. The latter, it should be noted, is 67.5 per cent higher than the income estimate of \$16,375,000 included in the 1967-69 budget appropriation. The sharp increase in projected income is due primarily to a combination of higher tuition rates and projected increases in enrollment.

Explanation of Increases Calculated in Accordance with Budget Formulae and Related Procedures

The increases requested in Part II of the University's 1969-71 budget request have been determined, as already noted, in accordance either with statutory requirements or with the formulae and procedures established by the staff of the Board of Higher Education in consultation with its Budget Formula Committee. The detailed calculations underlying the specific amounts shown for these categories are being supplied separately to the staff of the Board of Higher Education.

ADJUSTMENTS TO THE BASE BUDGET.....\$13 080 930

As noted in Schedule A, the General Assembly appropriated the sum of \$267,812,658 to the University of Illinois for the biennium 1967-69. Of this amount, the sum of \$127,365,864 was provided for 1967-68 and \$140,446,794 for 1968-69.

The increase of \$13,080,930 in the second year of the current biennium provided funds for additional enrollment, salary and price adjustments, operation of newly opened buildings, and other increases which did not become effective until 1968-69. The budget base for the 1969-71 biennial appropriations—exclusive of the increases indicated in Schedule A—is therefore twice the amount of the 1968-69 budget of \$140,446,794, or a biennial amount of \$280,893,588. In order to maintain this level of expenditure throughout the 1969-71 biennium—a level approved by the Seventy-fifth General Assembly in appropriating funds for 1968-69—an increase of \$13,080,930 over the 1967-69 biennial appropriation of \$267,812,658 is required, which is the "adjustment to the base budget" listed as item B1 in Schedule A.

STATUTORY INCREASES (RETIREMENT SYSTEM CONTRIBUTIONS).....\$27 813 160

In previous biennia, the General Assembly has appropriated to each state-supported university only the amount estimated to be needed to meet benefits payable by the Retirement System, plus maintenance of a limited reserve. The total has always been substantially less than the actuarial value of current service requirements. The Seventy-fifth General Assembly directed in 1967, in Senate Bill 515, that each university include in its 1969-71 biennial budget an amount sufficient to fund fully current service costs and to provide interest on the un-

funded accrued liability. This total amounts to 12.72 per cent of the salaries of participants in the Retirement System, exclusive of those for whom employer contributions are paid from trust and federal funds. The amounts needed to meet this requirement are \$10,204,015 in 1969-70 plus an additional \$1,720,705 for 1970-71, making a total increase of \$22,128,735 for the biennium.

The Board of the State Universities Retirement System has recommended several changes which will improve benefits under the System, principally: (a) annual increases in pensions of 1.50 per cent per year after retirement; (b) an increase in maximum survivor's benefits from \$250 a month to \$350 a month; (c) an increase in the retirement formula on a sliding scale—with a maximum of 80 per cent of salary at age sixty-six rather than the present 70 per cent. All of these changes are subject to legislative approval. Both the Board of the Retirement System and the staff of the Illinois Board of Higher Education have asked the universities to include funds for these improvements in their budget requests, since the Pension Laws Commission will not ordinarily approve any improvements in benefits unless funds are appropriated to cover the full costs. The sum of \$2,700,175 is requested for this purpose in 1969-70 and an additional \$284,075 for 1970-71, making a biennial total of \$5,684,425 for improvements.

SALARY ADJUSTMENTS.....\$26 902 906

The amount requested for salary-rate increases for the biennium 1969-71 has been calculated from formulae developed by the staff of the Board of Higher Education in collaboration with the Budget Formula Committee. The totals generated by the formulae are as follows:

	<i>Annual Increases</i>		<i>Biennial Total</i>
	<i>1969-70</i>	<i>1970-71</i>	
Academic salary increases.....	\$5 123 724	\$5 491 659	\$15 739 107
Nonacademic salary increases.....	3 201 313	3 456 033	9 858 659
Student wage-rate increases.....	218 500	219 030	656 030
Deficiency in 1967-69 prevailing rate funds	324 555		649 110
<i>Total.....</i>	<i>\$8 868 092</i>	<i>\$9 166 722</i>	<i>\$26 902 906</i>

Academic Salary Increases. Academic employees include all staff members with teaching, research, extension, and administrative responsibilities whose positions are not classified under the University Civil Service System of Illinois. In determining the amount to be requested for academic salary increases, the University for several biennia has based its estimates of need mainly on comparisons with salaries of the following eight universities: University of California, Cornell University, Indiana University, University of Michigan, University of Minnesota, Northwestern University, Stanford University, and the University of Wisconsin.¹ It is believed that the University of Illinois may appropriately be compared with this group of institutions in terms of the diversity and quality of its programs and faculty—a judgment supported by national surveys of universities.

One objective of the University's salary-increase policy has been to achieve standings at least at the midpoint of the group of these nine institutions (including Illinois), for each of the four regular academic ranks (professor, associate professor, assistant professor, instructor).

In Schedule B on the following page, comparative salary figures are shown for the group of nine institutions for 1966-67 and 1967-68. In addition to cash salaries, "total compensation" averages for 1967-68 are shown—based upon a combination of cash salaries plus fringe benefits. (Such figures are not available for all of these institutions for 1966-67.)

In terms of average cash salaries, the University of Illinois advanced in relative standing for each of the four academic ranks by at least one position, as follows: Professor, from seventh in the group of nine in 1966-67 to sixth in 1967-68; associate professor, from seventh to sixth position; assistant professor, from eighth to fifth position; instructor, from seventh to fifth position.

While these gains are encouraging, their significance is considerably mitigated

¹ The order in which the institutions are listed in Schedule B is not the same as this alphabetical order.

by the fact that the total-compensation rankings (cash and fringe benefits) for 1967-68 show that the University stands considerably lower than when cash salaries alone are compared. Approval of the improved benefits recommended by the State Universities Retirement System Board would help to correct this situation.

Although the University of Illinois has been strongly urged by organized faculty groups to seek funds beyond the budget-formula allowance in order to

Schedule B. Average Salaries at a Selected Group of Comparable Universities (Nine Months' Service)

The numbers in parentheses show the rank order of salary averages among the nine universities.

University	Professors			Associate Professors		
	1967-68		1966-67	1967-68		1966-67
	Cash Only	Cash and Fringe Benefits	Cash Only	Cash Only	Cash and Fringe Benefits	Cash Only
A.....	\$18 554 (4)	\$20 966 (4)	\$17 875 (3)	\$12 886 (4)	\$14 561 (4)	\$12 515 (4)
B.....	19 047 (2)	21 161 (2)	18 349 (2)	14 275 (1)	15 860 (1)	12 880 (1)
C.....	19 420 (1)	21 801 (1)	18 354 (1)	13 465 (2)	15 212 (2)	12 777 (2)
D.....	18 808 (3)	20 990 (3)	17 839 (4)	12 850 (5)	14 366 (5)	12 223 (5)
E.....	17 752 (5)	20 120 (5)	17 472 (5)	12 996 (3)	14 800 (3)	12 634 (3)
F.....	17 040 (8)	19 456 (6)	16 147 (8)	12 112 (9)	13 829 (8)	11 537 (8)
G.....	16 978 (9)	19 286 (7)	15 665 (9)	12 458 (7)	14 105 (6)	11 435 (9)
H.....	17 260 (7)	18 739 (9)	16 438 (6)	12 425 (8)	13 555 (9)	11 872 (6)
Illinois....	17 276 (6)	19 064 (8)	16 337 (7)	12 527 (6)	13 836 (7)	11 635 (7)
University	Assistant Professors			Instructors		
	1967-68		1966-67	1967-68		1966-67
	Cash Only	Cash and Fringe Benefits	Cash Only	Cash Only	Cash and Fringe Benefits	Cash Only
A.....	\$ 9 927 (8)	\$11 217 (6)	\$ 9 631 (4)	\$7 729 (7)	\$8 733 (7)	\$7 625 (4)
B.....	11 491 (1)	13 486 (1)	9 752 (3)	8 538 (1)	9 486 (1)	7 529 (6)
C.....	10 767 (2)	12 225 (2)	10 119 (1)	8 245 (2)	9 438 (2)	7 747 (2)
D.....	10 160 (4)	11 379 (5)	9 591 (6)	8 100 (4)	9 088 (4)	7 756 (1)
E.....	10 395 (3)	11 898 (3)	10 074 (2)	7 876 (6)	9 117 (3)	7 291 (8)
F.....	9 976 (7)	11 391 (4)	9 511 (7)	7 694 (8)	8 785 (6)	7 540 (5)
G.....	9 906 (9)	11 193 (8)	9 270 (9)	7 506 (9)	8 484 (9)	6 867 (9)
H.....	10 123 (6)	11 083 (9)	9 601 (5)	8 196 (3)	9 014 (5)	7 661 (3)
Illinois....	10 133 (5)	11 200 (7)	9 456 (8)	7 889 (5)	8 730 (8)	7 452 (7)

improve its comparative salary position, no such increase is being requested for the coming biennium. (Such a request was made for 1967-69 but was not approved by the Board of Higher Education.) Since some gain was made during the first year of the current biennium in terms of cash salaries, and since it is hoped that the increases for 1968-69 will enable the University at least to maintain its 1967-68 standing, it has been decided to limit the 1969-71 request to the budget-formula allowance. Further comparative studies will be made during the coming biennium, with consideration being given both to cash salaries and to total compensation. If justified by such studies, adjustments will be proposed either for changes in the formula or for a supplemental increase.

Nonacademic Salary Increases. The budget formula for Civil Service salaries is based on market-movement factors as determined both on a national and on a regional basis. The indices were derived partly from the Bureau of Labor Statistics Wage Survey and from professional and technical indices provided by the Department of Labor. A second factor reflected in the formula has been the objective of a competitive wage base that would reduce wage compression and result in the distribution of employees within ranges on the basis of service and performance. The ultimate distribution would be similar to that for which the General Assembly provided funds to the State Code Departments in 1967.

The nonacademic salary funds in the 1967-69 budget were inadequate to meet increases in classifications covered by the prevailing-wage law. To continue rates already in effect during the current biennium, additional funds in the amount of \$649,110 are needed.

Student Wage-Rate Increases. The formula for increases in student wages

**Schedule C. Fall-Term Enrollments for 1967-68 and 1968-69
and Enrollment Projections for 1969-70 and 1970-71**

	<i>Fresh- man- Sopho- more</i>	<i>Junior- Senior</i>	<i>Profes- sional</i>	<i>Grad- uate I</i>	<i>Grad- uate II</i>	<i>Total</i>
<i>Chicago Circle Campus</i>						
1967-68 (actual).....	7 003	4 324		341	93	11 761
1968-69 (actual).....	7 707	5 786		469	190	14 152
1968-69 (budgeted) ¹	9 300	4 658		573	169	14 700
1969-70 (projected).....	7 925	7 275		744	420	16 364
1970-71 (projected).....	8 090	8 535		882	528	18 035
<i>Medical Center Campus</i>						
1967-68 (actual).....			2 312	139	187	2 638
1968-69 (actual).....			2 327	153	200	2 680
1968-69 (budgeted) ¹			2 325	124	201	2 650
1969-70 (projected).....			2 508	156	210	2 874
1970-71 (projected).....			2 651	178	224	3 053
<i>Urbana-Champaign Campus</i>						
1967-68 (actual).....	11 500	10 517	896	3 278	4 216	30 407
1968-69 (actual).....	11 856	11 093	853	3 597	4 451	31 850
1968-69 (budgeted) ¹	11 000	10 400	845	3 930	4 025	30 200
1969-70 (projected).....	11 900	11 200	860	3 600	4 700	32 260
1970-71 (projected).....	11 900	11 250	875	3 900	4 800	32 725
<i>University Totals</i>						
1967-68 (actual).....	18 503	14 841	3 208	3 758	4 496	44 806
1968-69 (actual).....	19 563	16 879	3 180	4 219	4 841	48 682
1968-69 (budgeted) ¹	20 300	15 058	3 170	4 627	4 395	47 550
1969-70 (projected).....	19 825	18 475	3 368	4 500	5 330	51 498
1970-71 (projected).....	19 990	19 785	3 526	4 960	5 552	53 813

would enable the University to meet the higher minimum hourly rates established by the Federal Fair Labor Standards Act.

INCREASED ENROLLMENTS.....\$19 254 892

The levels of enrollment increase projected for the University's three campuses during 1969-71 are shown in Schedule C above. Actual enrollments (head counts) are shown for 1967-68 and 1968-69 for the fall term of each year at each campus. The distribution of enrollments is shown for the following educational levels: freshman-sophomore, junior-senior, professional, graduate I, graduate II. The differential costs related to these levels are recognized in the budget formulae recommended by the staff of the Board of Higher Education for calculating enrollment-increase funds.

Of special significance is the inclusion among these estimates of the funds needed for increases in the enrollment of medical students, as follows: (a) an increase of 20 first-year students at the Medical Center campus in 1969-70, with a corresponding increase in the second-year class in 1970-71; (b) a first-year "pilot" group of 25 medical students at the Urbana-Champaign campus in 1970-71. The latter program would be increased to a first-year medical class of 100 students at the Urbana-Champaign campus as soon as the necessary facilities can be constructed. Thus, the University proposes to begin during 1969-71 the implementation of its participation in the expansion of medical enrollment recommended in *Education in the Health Fields for State of Illinois* — a comprehensive program recently approved by the Board of Higher Education. The combined increase for the two campuses would be 45 by 1970-71, to bring the total first-year medical enrollment to 250. The new organizational arrangements proposed for administering this and subsequent expansion of medical education are described in the last section of this document.

¹ These figures were included in the 1967-69 budget request for operations as estimates of enrollment for 1968-69.

The overall gain for the 1969-71 biennium over the actual enrollment for the current year (1968-69) is as follows, for each of the three campuses and for the University as a whole: Chicago Circle campus, 3,883 (27.4 per cent); Medical Center campus, 373 (13.9 per cent); Urbana-Champaign campus, 875 (2.7 per cent); all campuses, 5,131 (10.5 per cent).

In the case of the Urbana-Champaign campus, such a comparison is misleading, since it tends to obscure the marked "overenrollment" for 1968-69 (i.e., that in excess of the original budget projection). If measured in terms of the latter, the 1970-71 projection of 32,725 students represents a biennial increase of 2,525 (8.4 per cent). The overenrollment for the current fall semester occurred because of the decision to admit a larger number of undergraduates than originally projected, in the expectation that the enrollment of graduate students would be markedly lower this year due to selective-service inductions; but the expected drop in graduate enrollment did not occur.

As already noted, the budget formulae developed by the staff of the Board of Higher Education and its Committee have been used in calculating the amounts requested for increased enrollment. The distribution of funds by the two years of the biennium, and for the three campuses, is as follows:

	<i>Annual Increases</i>		<i>Biennial Total</i>
	<i>1969-70</i>	<i>1970-71</i>	
Chicago Circle campus.....	\$3 497 663	\$2 700 629	\$ 9 695 955
Medical Center campus.....	1 383 171	853 079	3 619 421
Urbana-Champaign campus.....	2 399 986	1 139 544	5 939 516
<i>Total.....</i>	<i>\$7 280 820</i>	<i>\$4 693 252</i>	<i>\$19 254 892</i>

PRICE INCREASES..... \$2 656 950

The United States Department of Commerce's *Survey of Current Business* reports price trends for purchases of goods and services by state and local governments—showing an average annual increase of 4.2 per cent for the period 1966 to 1968. This percentage becomes the formula for price-increase requests for the following biennium. The goods and services purchased by the University, to which the formula applies, include contractual services, commodities, travel, equipment, stationery and printing, workmen's compensation, artificial appliances, and hospital-medical services. (The latter two categories apply to the Division of Services for Crippled Children.) The percentage value 4.2 has been applied to the 1968-69 budget total for these items, giving the increase requested for 1969-70 (\$873,425); and the same percentage value has been applied to the corresponding 1969-70 budget total for these goods and services, to derive the increase requested for 1970-71 (\$910,100).

REFUNDS..... \$479 300

State statutes require that all tuition collected from students be deposited in the state treasury. If a student withdraws or receives a tuition-waiver scholarship, he is entitled to a refund of tuition which must be charged against the appropriation from the Income Fund. With larger enrollments and higher fees, the amount of such refunds will increase. The requested increase in the budget is to provide the funds with which to meet the expected increase in refunds.

COUNTY EXTENSION BUDGET FROM AGRICULTURAL PREMIUM FUND

(2) In 1967-69 the General Assembly appropriated the sum of \$1,370,000 from the Agricultural Premium Fund to provide a portion of the salaries of Assistant Farm and Home Advisers and County Extension Secretaries, as well as travel expenses.

After consultation with the appropriate administrative officers, I recommend that the University submit to the Illinois Board of Higher Education and the Department of Finance a biennial budget request of \$1,694,908 from the Agricultural Premium Fund. The budget will provide for salary increases comparable to those recommended for other University personnel, for contributions to the Universities Retirement System, and for increased costs of travel in accordance with the budget formula allowance. The budget represents an increase of \$130,410 in the first year of the biennium and an additional increase

of \$64,088 in the second year. The proposed budget by object classifications will be as follows:

Personal Services.....	\$1 311 019
Contributions to Universities Retirement System.....	160 474
Travel.....	223 415
<i>Total</i>	<u>\$1 694 908</u>

On motion of Mr. Hughes, this budget was approved by the following vote: Aye, Mr. Clement, Mr. Grimes, Mr. Hahn, Mr. Hughes, Mr. Pogue, Mr. Swain, Mr. Williamson; no, none; absent, Mr. Jones, Mr. Page, Governor Shapiro, Dr. Weatherly.

AWARD OF CERTIFIED PUBLIC ACCOUNTANT CERTIFICATES

(3) The Committee on Accountancy recommends that the certificate of Certified Public Accountant be awarded, under Section 5 of the Illinois Accountancy Act of 1943, as amended, to the following candidates who have presented evidence that they are holders of valid and unrevoked Certified Public Accountant certificates obtained by passing a standard written examination in another state or territory of the United States and who qualify in all other respects under this provision of the law:

<i>Name</i>	<i>Address</i>	<i>State from Which They Obtained Certificates</i>
IRA MALCOLM LANDIS	Northbrook, Illinois	New Jersey
CHARLES JOSEPH O'DROBINAK, Jr.	Whiting, Indiana	Indiana
ROBERT HENRY PARIS	Inverness, Illinois	Hawaii
GERALD EDWARD SEEGBERS	Glenwood, Illinois	Indiana
ROBERT JOEL WIMER	Lake Forest, Illinois	New York

I concur.

On motion of Mr. Grimes, these certificates were awarded.

COLLEGE OF PHYSICAL EDUCATION ADVISORY COMMITTEE, URBANA

(4) The Dean of the College of Physical Education at Urbana recommends the following appointments and reappointments to the Advisory Committee for the College:

Appointments

BOURNE, MARGARET A., Supervisor of Girl's Health and Physical Education, Evanston Township High School, Evanston (term expires June 30, 1970)
JONES, DR. FRANK B., President-elect of the Athletic Institute, Chicago (term expires June 30, 1971)

Reappointments (for three-year terms beginning July 1, 1969)

BUEHLER, ARTHUR, Director of Health and Physical Education, Board of Education of Chicago, Chicago
EVEN, MRS. JOHN T., 1434 Downer Place, Aurora, Past President of Illinois Chapter of American Association of University Women
GRIFFITH, JOHN, Publisher, *Athletic Journal*, Evanston
SCHULTZ, ARTHUR, Executive Vice-President, Illinois Association of Park Districts, Springfield

I concur.

On motion of Mr. Williamson, these appointments and reappointments were approved.

ADVISORY COMMITTEE FOR THE COLLEGE OF VETERINARY MEDICINE, URBANA

(5) The Dean of the College of Veterinary Medicine recommends the following reappointments to the Advisory Committee of the College beginning September 1, 1968, for the terms indicated:

DR. H. C. MCCUTCHAN, Princeton (term expires August 31, 1969)
DONALD I. DEAN, Route 3, Champaign (term expires August 31, 1970)

WILLIAM J. KUHFUSS, President, Illinois Agricultural Association, Bloomington (term expires August 31, 1970)

A. B. McCONNELL, Woodstock (term expires August 31, 1970)

DR. JACK DINSMORE, 2400 Waukegan Road, Glenview (term expires August 31, 1971)

DR. C. A. KRAKOWER, Head, Department of Pathology, College of Medicine (term expires August 31, 1971)

I concur.

On motion of Mr. Hughes, these reappointments were approved.

HEADSHIP OF DEPARTMENT OF OTOLARYNGOLOGY, MEDICAL CENTER

(6) The Dean of the College of Medicine recommends the appointment of Dr. Albert H. Andrews, Jr., presently Professor of Bronchoesophagology on indefinite tenure, and Acting Head of the Department of Otolaryngology, as Professor of Bronchoesophagology on indefinite tenure, and Head of the Department of Otolaryngology beginning November 1, 1968, at an annual salary of \$28,000 for 80 per cent of full-time service on a twelve months' basis.

Dr. Andrews has been serving as Acting Head of the Department since September 1, 1967.

The nomination was initiated by a search committee¹ and is made after consultation with all members of the Department of the rank of assistant professor and above, and with the approval of the Chancellor at the Medical Center campus, the Acting Dean of the Medical Center Graduate College, and the Executive Vice President and Provost.

I concur.

On motion of Mr. Grimes, this appointment was approved.

APPOINTMENTS TO THE FACULTY

(7) The following new appointments to the faculty of the rank of Assistant Professor and above, and involving tenure, have been approved since the previous meeting of the Board of Trustees.

Positions in the University are classified in the following categories and are designated in the budget by the symbols indicated: A— indefinite tenure; P— indefinite term appointment for part-time service only; B— two years; D— one year; E— nine months from the beginning of the academic year; G— special tenure; Q— initial term appointment for professor or associate professor; Y— twelve months' service required instead of two semesters; 1-7— indicates the number of years of service which will be credited at the end of the contract period toward completion of the probationary period relating to tenure.

Figures following a symbol indicate percentage of time if the appointment is on a part-time basis (e.g., D75 means one year on three-fourths time).

Chicago Circle

1. GERSHON BERKSON, Associate Professor of Psychology, beginning September 1, 1968 (A67), on two-thirds time, at an annual salary of \$9,000.
2. LUCILLE V. BRAUN, Assistant Professor of Spanish, beginning September 1, 1968 (4), at an annual salary of \$10,500.
3. JOHN A. CONLEY, Professor of English, beginning September 1, 1968 (P67), on two-thirds time, at an annual salary of \$14,000.
4. DONALD A. EGGERT, Associate Professor of Biological Sciences, beginning September 1, 1968 (A), at an annual salary of \$13,500.
5. RUTH EL SAFFAR, Assistant Professor of Spanish, beginning September 1, 1968 (2), at an annual salary of \$10,500.
6. FREDERICK D. ERICKSON, Assistant Professor of Education, beginning September 1, 1968 (1), at an annual salary of \$11,000.
7. BENNET GREENWALD, Assistant Professor of Architecture, beginning September 1, 1968 (D50), on one-half time, at an annual salary of \$6,000.

¹ Roger A. Harvey, Professor and Head of the Department of Radiology, *Chairman*; Donald J. Caseley, Medical Director, Research and Educational Hospitals, *ex officio*; Ormand C. Julian, Professor of Surgery; Peter C. Kronfeld, Professor and Head of the Department of Ophthalmology (retired August 31, 1968); George E. Miller, Director, Office of Research in Medical Education; A. V. Wolf, Professor and Head of the Department of Physiology.

8. JAMES C. GRIGGS, JR., Director, Educational Assistance Program, and Assistant Professor of Education, beginning September 1, 1968 (DY, 1), at an annual salary of \$20,000.
9. RONALD E. JABLONSKI, Associate Professor of Management, College of Business Administration, beginning January 1, 1969 (A), at an annual salary of \$15,000.
10. KENNETH R. JOHNSON, Assistant Professor of Education, beginning September 1, 1968 (1), at an annual salary of \$11,000.
11. DAVID JORDAN, Assistant Professor of History, beginning September 1, 1968 (1), at an annual salary of \$12,000.
12. MELVIN LEHMAN, Assistant Professor of Systems Engineering, beginning September 1, 1968 (2), at an annual salary of \$11,000.
13. KATHARINE TAYLOR LOESCH, Assistant Professor of Speech, beginning September 1, 1968 (3), at an annual salary of \$10,500.
14. GERTRUDE C. MONTGOMERY, Assistant Professor of Physical Education for Women, beginning September 1, 1968 (1), at an annual salary of \$11,000.
15. ROBERT M. MORIARTY, Professor of Chemistry, beginning September 1, 1968 (A), at an annual salary of \$19,000.
16. YAO-CHUN RICKERT, Assistant Professor of Mathematics, beginning September 1, 1968 (2), at an annual salary of \$9,500.
17. BENDEGUZ B. VARGA, Assistant Professor of Physics, beginning September 1, 1968 (1), at an annual salary of \$11,500.
18. DOROTHY R. YOUNG, Assistant Professor in the Jane Addams Graduate School of Social Work, beginning September 1, 1968 (1), at an annual salary of \$11,000.

Medical Center

19. DOROTHY D. CAMILLERI, Assistant Professor of Nursing, beginning September 1, 1968 (D50), on one-half time, at an annual salary of \$5,500.
20. WILLARD S. HARRIS, Associate Professor of Medicine, beginning September 17, 1968 (AY), at an annual salary of \$22,500.
21. HELEN ILENE LANGDON, Assistant Professor of Nursing, beginning August 1, 1968 (1Y), at an annual salary of \$13,000.
22. ROBERT A. LLOYD, Assistant Professor of Physics in Pharmaceutical Chemistry, College of Pharmacy, beginning September 1, 1968 (1), at an annual salary of \$12,000.
23. HANNELORE LOEY, Assistant Professor of Zoology, Department of Pharmacognosy and Pharmacology, College of Pharmacy, beginning September 1, 1968 (3), at an annual salary of \$10,500.
24. SISTER MARY PAUL SMYTH, Assistant Professor of Nursing, beginning September 1, 1968 (1), at an annual salary of \$11,000.
25. NICHOLAS E. TAPP, Assistant Professor of Orthodontics, College of Dentistry, on 30 per cent time, beginning September 1, 1968 (DY30), at an annual salary of \$3,550.

Urbana

26. CARL ALLEN BOCK, Assistant Professor of Agriculture Law Extension, Department of Agricultural Economics, beginning September 1, 1968 (1Y), at an annual salary of \$12,000.
27. ROBERT W. BROWN, Director, Program of Community Involvement with rank of Assistant Professor, College of Law, beginning September 1, 1968, at an annual salary of \$12,000.
28. JAMES R. COOPER, Assistant Professor of Finance and of Business Administration, beginning September 1, 1968 (1), at an annual salary of \$13,000.
29. KARL M. DUS, Assistant Professor of Biochemistry in Chemistry and Chemical Engineering, beginning February 1, 1969 (1), at an annual salary of \$13,000.
30. ALAN W. HANEY, Assistant Professor of Botany, beginning September 1, 1968 (1), at an annual salary of \$10,300.
31. YAMUNA KACHRU, Associate Professor of Hindi in Linguistics, in English, and in the Center for Asian Studies, beginning September 1, 1968 (A), at an annual salary of \$11,200.
32. HARRY V. LELAND, Assistant Professor of Environmental Biology, Department of Civil Engineering, beginning November 1, 1968 (1), at an annual salary of \$10,000.

33. JAMES C. McKEOWN, Assistant Professor of Accountancy, beginning September 1, 1968 (1), at an annual salary of \$11,900.
34. CHARLES W. PEZOLDT, Assistant Professor of Recreation and Recreation Specialist, in the Department of Recreation and Park Administration and in County Farm Extension, beginning September 1, 1968 (1Y), at an annual salary of \$15,000.
35. JULIAN RAPPAPORT, Assistant Professor of Psychology, beginning September 1, 1968 (1), at an annual salary of \$10,000.
36. WESLEY D. SEITZ, Assistant Professor of Agricultural Marketing, in Agricultural Economics and in Business Administration, beginning July 15, 1968 (1), at an annual salary of \$15,200.
37. JAMES B. SINCLAIR, Professor of Plant Pathology, beginning September 16, 1968 (FY), at an annual salary of \$19,000.
38. BARBARA SMALLEY, Assistant Professor of Comparative Literature, Department of English, beginning September 1, 1968 (1), at an annual salary of \$9,300.
39. HERBERT J. SPRENGEL, Assistant Professor of General Engineering, beginning September 1, 1968 (1), at an annual salary of \$13,600.
40. GIRDHARI LAL TIKKU, Professor of Near Eastern Languages and Literatures and Associate Director of the Center for Asian Studies, beginning September 1, 1968 (A,D), at an annual salary of \$17,500.
41. JOSEPH D. WOELFEL, Assistant Professor of Sociology and of Rural Sociology, in the Department of Sociology and in the Department of Agricultural Economics, beginning September 1, 1968 (1), at an annual salary of \$13,445.
42. JERROLD ZIFF, Professor of Art, beginning September 1, 1969 (A), at an annual salary of \$20,000.

Visiting Staff

43. PAUL BÖCKMANN, Visiting Professor of Germanic Languages and Literatures, Urbana, for the period from September 16, 1968, through December 31, 1968 (G), at a salary of \$10,000.
44. ANN L. BROWN, Visiting Assistant Professor of Psychology, Urbana, on two-thirds time, for the academic year 1968-69 (E67), at a salary of \$6,670.
45. KLAUS PETER JOCHUM, Visiting Assistant Professor of English, Urbana, for the academic year 1968-69 (D), at a salary of \$9,500.
46. KYOZI KAWASAKI, Visiting Associate Professor of Physics, on one-half time, and of Chemistry, on one-half time, Urbana, for the second semester of 1968-69 (D), at a salary of \$6,750.
47. NEIL RIPLEY KER, Visiting Professor of English, Urbana, for the period from September 1, 1968, through February 28, 1969 (G), at a salary of \$12,000.
48. DALE KEITH OSBORNE, Visiting Associate Professor of Economics and of Business Administration, Urbana, beginning September 1, 1968 (D), at an annual salary of \$15,500.
49. MOGENS PRIP-BUUS, Visiting Professor of Architecture, Urbana, for the academic year 1968-69 (E), at a salary of \$13,000.
50. WALTER SALMEN, Visiting Professor of Music, Urbana, for the period from February 1, 1969, through June 15, 1969 (E), at a salary of \$8,150.
51. MARY JANE RAWLINS SCHLINGER, Visiting Assistant Professor of Marketing, College of Business Administration, Chicago Circle, beginning September 1, 1968 (D), at an annual salary of \$12,000.
52. ROGER D. B. THOMSON, Visiting Associate Professor of Slavic Languages and Literatures, Urbana, for the academic year 1968-69 (E), at a salary of \$14,000.
53. EKKEHART TILLMANNS, Visiting Assistant Professor of Geological Sciences, Chicago Circle, beginning September 1, 1968 (D), at an annual salary of \$9,400.
54. WARREN KENT WILSON, Visiting Assistant Professor of Philosophy, Chicago Circle, for the period from March 16, 1969, through June 15, 1969 (E), at a salary of \$3,475.
55. MARILYN PFLEDERER ZIMMERMAN, Visiting Associate Professor of Secondary and Continuing Education and of Music, and Counselor, Council on Teacher Education, for the academic year 1968-69 (E), at a salary of \$13,000.

On motion of Mr. Grimes, these appointments were confirmed.

CHANGES IN STUDENT TUITION

(8) On July 24, 1968, the Board of Trustees approved in principle an increase of \$75 per year in resident tuition and \$100 per year in nonresident tuition effective in the fall of 1969, plus an additional \$100 per year in nonresident tuition effective in the fall of 1970, as proposed by the Illinois Board of Higher Education.

To implement this action, I recommend that the following fee schedule be adopted:

	<i>Annual Amount</i>	<i>Semes- ter</i>	<i>Quar- ter</i>	<i>Eight- Week Term</i>
<i>Illinois Residents Fall 1969</i>				
Range I.....	\$246	\$123	\$ 82	\$ 62
Range II.....	174	87	58	44
Range III.....	102	51	34	26
<i>Nonresidents Fall 1969</i>				
Range I.....	852	426	284	213
Range II.....	600	300	200	150
Range III.....	342	171	114	86
<i>Nonresidents Fall 1970</i>				
Range I.....	954	477	318	239
Range II.....	660	330	220	165
Range III.....	372	186	124	93

The semester rates will be charged at the Urbana-Champaign campus during the two regular semesters. The quarter rates are charged for all terms at the Chicago Circle and the Medical Center campuses, and for any eleven- or twelve-week summer program at the Urbana-Champaign campus. The eight-week-term rates are charged for the regular summer session at the Urbana-Champaign campus.

(Range I is for a full time schedule above ten hours or two and one-half units in a semester or quarter. Range II is above five hours or one and one-fourth units up to and including ten hours or two and one-half units; Range III is above zero up to and including five hours or one and one-fourth units.)

(In order to keep fees in whole dollars and the same at all campuses, the increase may be \$1.00 or \$2.00 a year more than the amount recommended by the Illinois Board of Higher Education. Service fees, which are in addition to tuition, vary somewhat by campus, and are not affected by this recommendation.)

On motion of Mr. Williamson, this recommendation was approved.

CHANGES IN TUITION FOR CORRESPONDENCE AND EXTRAMURAL INSTRUCTION

(9) In accordance with the anticipated increases in tuition for on-campus study and to compensate for proposed increases in faculty teaching stipend rates for extramural classes, the Dean of the Division of University Extension recommends, with concurrence of the University Committee on Fees, that a standard tuition fee of \$15.00 per semester hour and \$10.00 per quarter hour be assessed for correspondence and extramural credit courses, and that a standard tuition fee of \$15.00 be assessed for each sixteen hours of instruction (equivalent to one semester hour) in noncredit extramural courses.

Currently, visitors in extramural courses pay the same tuition as students registered in the course for credit, except that in cases of multiple credit courses the visitor pays the fee applicable to the lowest credit provided in the course. No change is proposed in this policy.

I concur and recommend that these changes become effective September 1, 1969.

On motion of Mr. Grimes, this recommendation was approved.

CHANGE IN STUDENT NON-REFUNDABLE CHARGES

(10) In order to compensate for the reduction in allocation to the Service Fee resulting from the increased allocation to the Hospital-Medical-Surgical Fee (effected by the Trustees' action of June 19, 1968), I recommend the following

changes in cases of withdrawal from the University: an increase in the non-refundable charge from \$30.00 to \$36.00 in a semester or twelve-week term, and from \$20.00 to \$26.00 in an eight-week summer session at the Urbana-Champaign campus; and from \$30.00 to \$31.00 in a quarter at the Chicago Circle and Medical Center campuses. The increases correspond to the increases in the Hospital-Medical-Surgical Fee at the respective campuses.

I further recommend that the proposed adjustments become effective no earlier than September, 1969, in order to allow time for public announcement, and that all present assessment and exemption regulations governing the Hospital-Medical-Surgical Fee be retained.

On motion of Mr. Grimes, the recommendations were approved.

REAPPROPRIATION OF UNEXPENDED BALANCES AS OF JUNE 30, 1968

(11) The Vice President and Comptroller recommends that the following balances and overdrafts in budget appropriations June 30, 1968, be carried forward for the fiscal year beginning July 1, 1968, in accordance with the usual policy.

I concur.

Urbana-Champaign

Board of Trustees.....	\$	1 853	
President's Office.....		4 022	
Executive Vice President and Provost.....		6 614	
Vice President and Comptroller.....		1 444	
Vice President's Office.....		350	
Chancellor's Office.....		27 983	
Admissions and Records.....		7 997	
Legal Counsel.....		9 679	
Nonacademic Personnel.....		6 039	
Public Information.....		1 470	
Dean of Students.....		5 825	
Health Service.....		4 673*	
Agriculture.....		1 839*	
Commerce and Business Administration.....		357*	
Education.....		5 554*	
Engineering.....		14 554	
Fine and Applied Arts.....		4 361	
Graduate College.....		12 704	
Journalism and Communications.....		1 466	
Law.....		467*	
Liberal Arts and Sciences.....		13 580*	
Physical Education.....		14 329*	
University Extension.....		3 119	
Veterinary Medicine.....		599	
Armed Forces.....		492	
Institute of Aviation.....		1 058	
Institute of Government and Public Affairs.....		1 006*	
School of Social Work.....		1 350	
Summer Session.....		1 615*	
University Press.....		45 171*	
Library and Library School.....		34 086	
Physical Plant:			
Regular operation and maintenance.....	\$	92 219	
Renewals and replacements.....		387 500	
Special items.....		76 378	556 097
Equipment maintenance, remodeling, renovations, alterations, etc.			
Statistical Service special equipment.....		3 913	
Business Office, Business Manager, special equipment.....		1 650	
Business Office, Auditing, business procedure manual.....		4 000	

* Deduct.

Admissions and Records special equipment.....	1 046*
Nonacademic Personnel advertising recruiting program.....	14 420
Nonacademic Personnel special equipment typing training.....	2 964
Health Service special equipment.....	3 628
Office of Instructional Resources equipment.....	33 986
Agronomy special equipment, meat trucks	3 919
Agronomy special equipment.....	3 037
Commerce administration special equipment.....	4 000
Education administration special equipment.....	3 245
Education administration computer consulting unit.....	10 346
Elementary Education special equipment	14 081
Aeronautical and Astronautical Engineering Title VI Higher Education...	34 332
Civil Engineering special equipment.....	119 560*
Civil Engineering equipment NSF GY-3301 matching grant.....	18 500
Electrical Engineering NSF GY-3377 matching grant.....	13 125
Mechanical and Industrial Engineering equipment Title VI Higher Education	4 476
Mechanical and Industrial Engineering, NSF GY-3445 matching grant.....	24 801
Architecture special equipment.....	12 746
Art special equipment.....	6 915
Art graphic design laboratory expense...	4 265
Lithography studio equipment and remodeling.....	5 000
Oriental art special materials.....	1 693
Music special equipment.....	1 130*
Band uniforms.....	2 683
Language Laboratory special equipment	2 957
Botany scientific equipment.....	4 387
East Chemistry Building addition equipment.....	2 069
Chemistry equipment NSF 1911 matching grant.....	8 369
Chemistry and Chemical Engineering special equipment.....	55 118
Chemistry equipment NSF 9522 matching grant.....	4 140
Chemistry and Chemical Engineering undergraduate instruction awards....	6 853
Division of General Studies special equipment.....	2 002
Division of General Studies undergraduate instruction awards.....	6 797
Geography summer field camp 1968.....	1 268
Geography equipment and moving.....	3 946
Geology special equipment.....	41 415
Life Sciences special equipment.....	33 246
Psychology undergraduate instruction awards.....	2 956
Zoology special equipment.....	12 343
Physical Education special equipment...	4 704
Rehabilitation purchase of buses.....	19 836

* Deduct.

Willard Airport water distribution system	13 025
University High School curriculum library equipment	7 970
Agricultural administration station	
Wright Street paving	2 000
Agriculture Service Building storage platform	2 515
Mimeograph building special equipment . .	1 898
Agricultural Engineering special equipment	2 209
Soil sample storage building agronomy . .	1 170
Dairy Science minor buildings	8 239
Dixon Springs Agricultural Center special equipment	3 196
Dixon Springs water system fire prevention	1 208
Plant Pathology fire damage building 334	6 000
Veterinary Medicine station pole shed structure	4 972
Civil Engineering equipment NSF matching grant	3 408
Civil Engineering HMRL equipment replacement	3 145
Civil Engineering special equipment	3 662
Electrical Engineering NSF matching grant	3 150
Highway Traffic Center special equipment	1 222
Measurement Program moving and special equipment	9 272
Mechanical and Industrial Engineering GY 1362 matching	1 476
Mechanical and Industrial Engineering NSF GE 8795 matching	1 965
Bureau of Business Management special equipment	4 101
Law school lectures academic freedom . .	3 307
Allerton House replacements	8 034
Library chemistry library equipment moving	3 515
Library special equipment	11 479
Library public service special equipment . .	10 244
Nonrecurring unassigned	74 536
Armory heating, ventilating, and air conditioning	1 213
Architectural studies for future buildings	33 133
Administration Building Statistical Service Unit remodeling	8 575
Altgeld Hall air conditioning and remodeling	37 039
Agricultural Services Building	30 627
Armory remodeling	2 468
Biological structure planning	1 446*
Bevier Hall remodel electronic microscope laboratory	23 643
Burrill Hall equipment control center . . .	24 262
Davenport Hall remodeling	8 615
Dairy Science milk handling room	8 278
Engineering Hall remodeling	3 061
912 S. Fifth Street remodeling	1 971
Hott Memorial Center remodeling	22 690
Ice Rink remodeling	4 500
Illini Hall air conditioning	1 923

* Deduct.

Library remodeling.....	3	457	
Mumford Hall remodel television classroom psychology.....	1	036	
McKinley Hospital remodeling.....	12	871	
McKinley Hospital remodel room 314.....	8	678	
Natural History Building remodeling geology.....	30	915	
Natural History remodeling.....	160	439	
Nursery building construction.....	35	250	
Nuclear Engineering Laboratory remodel measurement program.....	12	425	
Noyes Laboratory remodeling.....	68	632	
1204 W. Nevada Street remodeling.....	1	279	
Personnel Services Building special equipment.....	1	750	
Remodeling and minor additions unassigned.....	12	431	
Smith Music Hall remodeling.....	1	920	
801 S. Wright Street remodeling.....	6	498	
Transportation Building remodeling.....	4	382	
Turner Hall greenhouse.....	48	908	
501 S. Wright Street remodeling.....	2	394	
Colonel Wolfe School remodeling.....	3	738	
Sixty-four items ranging from \$343 overdraft to \$989.....	21	844	\$1 168 712
<i>Total Urbana-Champaign.....</i>			<i>\$1 775 992</i>

Medical Center

Executive Vice President and Provost.....	663	
Chancellor's Office.....	5	561
Business Office.....	1	591
Nonacademic Personnel.....	981	
Public Information.....	452	
Illustration Studios.....	3	378*
Medical Research Laboratory.....	102*	
Medicine.....	6	362*
Dentistry.....	2	693*
Pharmacy.....	3	516
Graduate College.....	11	143
Nursing.....	1	446
Physical Education for Men.....	724	
Research Resources Laboratory.....	1	154
Tuberculosis research.....	175*	
Division of Services for Crippled Children.....	346	901
Research and Educational Hospitals.....	41	684
Library.....	394	
Physical Plant:		
Regular operation and maintenance.....	65	324
Renewals and replacements.....	136	547
Special items.....	132	716
Equipment, maintenance, remodeling, renovations, alterations, etc.	334	587
Chancellor's Office furnishings.....	2	255
Nonacademic Personnel advertising.....	3	867
Illustration Studios:		
Lighting equipment.....	6	128
Video recorder.....	1	260
Television equipment 1968-69.....	6	502
Television equipment.....	1	427
E. I. A. sync. bd. and generator.....	1	900
Photo equipment.....	24	000
Video tape recorder.....	43	000

* Deduct.

Audio console.....	9 382
Video recorder heads.....	2 900
Vidicon tubes.....	1 470
Line rental.....	7 200
Oscilloscope.....	2 280
Dentistry-Medicine-Pharmacy Building	
install monitors room 311.....	1 910
ID card operation.....	3 000
Medical Research Laboratory equipment	39 806
College of Medicine:	
Committee on Institutional Research..	1 239
Medicine administration brochures...	1 740
Models and demonstration materials...	4 500
Histological materials.....	19 379
Furniture.....	1 080
Skeletons, bones, boxes.....	3 125
Surgery equipment.....	1 106
Pharmacy special equipment.....	5 298
Research and Educational Hospitals:	
Audio page systems.....	50 000
Addressograph plates.....	18 000
Equipment and supplies.....	24 500
Monitoring and recording equipment..	13 121
Dishwashing complex.....	13 899
Laboratory equipment additions.....	22 419
Coulter counter.....	20 000
Cardiovascular surgical equipment...	17 124
Cardiac monitoring equipment.....	1 077
Parasitology laboratory.....	1 300
Electroencephalograph polygraph....	19 575
Replace major items Hospital addition	1 607
Neurosurgical equipment.....	4 975
Renovation of hospital residence and re-	
furnish rooms.....	7 635
Detrex ultrasonic instrument cleaner...	8 900
Replace dual probe system.....	13 750
Isotope equipment.....	36 650
Television x-ray viewer.....	12 285
Replace x-ray tube suspension system..	16 370
Ward special equipment.....	18 291
Chancellor's Office remodel rooms 558 and	
559.....	5 700
Subdivide room 314 old union building....	8 500
Remodel second floor old union building..	49 177
Health Service remodeling and lighting...	3 100
Alumni Office remodel room 302.....	3 850
College of Medicine renovate rooms 130,	
131, and 132.....	22 300
Bathroom facilities room 324 Ortho Build-	
ing.....	2 277
Illinois Eye and Ear Infirmary demolition	17 740
Remodel room 773.....	9 300
Neuropsychiatric Institute remodel south	
wing.....	1 236
Admitting Clinic air condition.....	11 319
Illustration Studios air condition steno-	
graphic service.....	1 916
I. T. V. studios.....	1 112
Library remodel rooms 119 and 133.....	4 670
Physical Environment Building remodel	
basement.....	27 000
806, 810, 816 S. Ashland Avenue demoli-	
tion.....	15 000

Admissions and Records air condition room 111.....	1 032		
College of Medicine:			
Acoustical ceilings rooms 928, 929 Hospital addition.....	1 000		
Shelving south end twelfth floor.....	1 000		
Physiology darkroom modify plumbing	1 000		
Dentistry-Medicine-Pharmacy Building remodel room 124.....	4 900*		
Refurbish cadaver tanks.....	1 920		
Remodel room 726.....	3 900		
Dentistry remodel room 268.....	35 850		
Orthodontic light fixtures.....	3 015		
Dental equipment unit room 962.....	1 927		
Pharmacy administration remodel.....	7 178		
Remodel mail chute.....	1 890		
Research and Educational Hospitals:			
Install fluorescent lights Hospital administration.....	3 100		
Remodel rooms 458 and 460.....	9 800		
Remodel and air condition hospital laboratory.....	15 120		
Remodel rooms 458 and 460.....	1 249		
Air condition rooms 331, 337, 339, and 345.....	1 833		
Air condition room 100.....	2 250		
Air condition dining room.....	3 308		
Remodel storeroom locker space.....	13 479		
Darkroom installation.....	5 385		
Stairwell exit requirements.....	1 758*		
Remodel operating room 4.....	1 000		
Install vacuum inlets room 604, 920 building.....	1 000		
Remodel room 269 general Hospital.....	3 250		
Install auto clave in room 229 hospital addition.....	1 000		
Remodel east wing 920 building.....	1 000		
Install sliding door operating room 4.....	1 000		
Institute for Tuberculosis Research install sink and cabinet.....	1 000		
Illustration Studios:			
Erect partition for instructional television.....	1 000		
Install audio and video lines I.T.V.....	3 450		
One hundred-seventeen items ranging from \$530 overdraft to \$989.....	45 766	869 473	
Total Medical Center.....			1 607 560
<i>Chicago Circle</i>			
President's Office.....	997		
Executive Vice President and Provost.....	297		
Chancellor's Office.....	5 081*		
Business Office.....	5 612		
Legal Counsel.....	122*		
Nonacademic Personnel.....	3 333		
Health Service.....	931		
Office of Public Information.....	730		
Office of Alumni Relations.....	1 625*		
Liberal Arts and Sciences.....	23 293		
Engineering.....	4 876		
Architecture and Art.....	6 491*		
Graduate College.....	1 560		

* Deduct.

Business Administration.....	9	456*	
Education.....	1	968*	
Physical Education.....	1	772*	
Armed Forces.....		827*	
Social Work.....	1	256*	
Center for Urban Studies.....		838	
Library.....	178	289	
Physical Plant:			
Operation and maintenance.....	175	221	
Renewals and replacements.....	49	333	
Special items.....	18	051	242 605
Duplicating printing equipment.....	24	600	
Chancellor brochure.....	6	300	
Dean of Faculties radiation cons. S.V. C.	1	100	
Matching Illinois 6-0574 instructional re-			
search.....	6	743	
Admissions and records consulting hand-			
book.....	1	500	
Engineering:			
Engineering laboratory equipment.....	13	800	
Energy Engineering laboratory			
equipment.....	20	800	
Matching NSF GY-1402 for Energy			
Engineering.....	22	084	
Matching NSF GY-1722 Information			
Engineering.....	1	212	
Information Engineering laboratory			
equipment.....	29	302	
Computer Center rental tele-			
equipment.....	10	000	
Liberal Arts and Sciences:			
Matching OLEA 251-11.....	2	560	
Geology equipment for Illinois Eye			
and Ear Infirmary.....	11	209	
Psychology equipment for Illinois Eye			
and Ear Infirmary.....	1	330	
Equipment Hull House restoration.....	3	101*	
Howard University book acquisitions....	2	772	
History book acquisitions.....	4	602	
Remodel room 2532 University Hall.....	1	600	
Remodel room 1400 building 628.....	3	300	
Library install partitions.....	3	500	
Twenty-one items ranging from \$2 to			
\$900.....	10	906	176 119
<i>Total Chicago Circle.....</i>			610 882
<i>Grand Total.....</i>			<u>\$3 994 434¹</u>

On motion of Mr. Hughes, these appropriations were made by the following vote: Aye, Mr. Clement, Mr. Grimes, Mr. Hahn, Mr. Hughes, Mr. Pogue, Mr. Swain, Mr. Williamson; no, none; absent, Mr. Jones, Mr. Page, Governor Shapiro, Dr. Weatherly.

CONTRACTS FOR CONSTRUCTION OF LIBRARY AIR CONDITIONING CENTER EXPANSION, URBANA

(12) The President of the University, with the concurrence of the appropriate administrative officers, recommends award of the following contracts, subject to the release of funds, for construction of the Library Air Conditioning Center Expansion, Urbana-Champaign campus, to provide chilled water for the air

* Deduct.

¹ Includes \$7,300 overdraft in Agricultural Premium Fund on Urbana-Champaign campus.

conditioning of Smith Music Hall and the proposed Foreign Languages Building and Music Building, the award in each case to the low bidder:

General—Skoog Construction Company, Champaign.....	\$179 000
Plumbing—George S. Walker Plumbing & Heating, Inc., Decatur....	13 150
Heating and Air Conditioning—Bellis & Miller, Inc., Champaign.....	391 000
Electrical—Remco Electrical Corporation, Champaign.....	28 419

Funds are available in state capital appropriations to the University for 1967-69 subject to release by the Governor.

Submitted herewith is a report from the Department of Plant and Services, including a schedule of bids received, a copy of which is being filed with the Secretary of the Board for record.

On motion of Mr. Williamson, these contracts were awarded by the following vote: Aye, Mr. Clement, Mr. Grimes, Mr. Hahn, Mr. Hughes, Mr. Pogue, Mr. Swain, Mr. Williamson; no, none; absent, Mr. Jones, Mr. Page, Governor Shapiro, Dr. Weatherly.

**TRANSFER OF JURISDICTION OF PROPERTY TO THE ILLINOIS
BUILDING AUTHORITY FOR CONSTRUCTION OF UTILITIES
BUILDING ADDITION, CHICAGO CIRCLE**

(13) The Illinois Building Authority has requested the Board of Trustees to transfer jurisdiction of the site of the Utilities Building Addition—Utilities Center Addition—Phase III, Chicago Circle, to the Illinois Building Authority.

The Utilities Building Addition is a project the construction of which the Seventy-fifth General Assembly has declared to be in the public interest and which the Board of Trustees at its meeting on July 26, 1967, requested the Illinois Building Authority to provide for the Chicago Circle campus.

Accordingly, the President of the University, with the concurrence of appropriate administrative officers, requests the adoption of the following resolution to authorize the transfer requested by the Illinois Building Authority.

Resolution

WHEREAS, the Seventy-fifth General Assembly of the State of Illinois has declared it to be in the public interest that the Illinois Building Authority construct, on behalf of The Board of Trustees of the University of Illinois, a Utilities Building Addition (Utilities Center Addition) at the Chicago Circle Campus of the University of Illinois in Chicago, Illinois; and

WHEREAS for that purpose it will be necessary for the Illinois Building Authority to acquire jurisdiction of the real estate upon which said building will be located; and

WHEREAS The Board of Trustees of the University of Illinois, a public corporation of the State of Illinois with its principal office in Urbana, Illinois has been requested by the Illinois Building Authority to transfer jurisdiction of said real estate for the construction of said building.

Now, Therefore, Be It and It Is Hereby Resolved, by The Board of Trustees of the University of Illinois at its October 16, 1968 meeting, as follows:

That the Comptroller and the Secretary of The Board of Trustees of the University of Illinois be and they are hereby authorized to execute, acknowledge and deliver, in the name and on behalf of this corporation, an instrument of transfer of jurisdiction to the property described in the attached document entitled "Instrument of Transfer" which said form of Instrument of Transfer is, by this reference, incorporated in and made a part of this Resolution.

On motion of Mr. Clement, the foregoing resolution was adopted by the following vote: Aye, Mr. Clement, Mr. Grimes, Mr. Hahn, Mr. Hughes, Mr. Pogue, Mr. Swain, Mr. Williamson; no, none; absent, Mr. Jones, Mr. Page, Governor Shapiro, Dr. Weatherly.

.....
Date

Instrument of Transfer

In accordance with the provisions of "An Act to create the Illinois Building Authority and to define its powers and duties," approved August 15, 1961, as

amended, and Resolution No. 68 IBA 208, adopted on the 30th day of July, 1968 by the Illinois Building Authority, a body corporate and politic of the State of Illinois, created under said mentioned Act, requesting the transfer of the certain described real estate and jurisdiction thereof to the Illinois Building Authority;

Now, Therefore, the undersigned The Board of Trustees of the University of Illinois does hereby transfer jurisdiction of the following real estate to the Illinois Building Authority, to wit:

Exhibit "A"

Parcel "A"

A parcel of land in the Southeast $\frac{1}{4}$ of Section 17, Township 39 North, Range 14 East of the Third Principal Meridian, described as follows:

Commencing at the intersection of the North line of West Roosevelt Road (108 feet wide) and the East line of South Morgan Street (66 feet wide); thence North $00^{\circ}-00'-28''$ East along East line of said South Morgan Street a distance of 366.70 feet to a point; thence North $90^{\circ}-00'$ East a distance of 49.45 feet to the point of beginning for said parcel of land; thence continuing North $90^{\circ}-00'$ East a distance of 25.00 feet; thence South $00^{\circ}-00'$ West a distance of 82.50 feet; thence South $90^{\circ}-00'$ West a distance of 25.00 feet; thence North $00^{\circ}-00'$ East a distance of 82.50 feet to the Point of Beginning, said point being 1044.83 feet West of the East line of the Southeast $\frac{1}{4}$ of said Section 17, measured perpendicularly to said East line from a point 400.15 feet North of the Southeast corner of the Southeast $\frac{1}{4}$ of said Section 17.

Parcel "B"

A parcel of land in the Southeast $\frac{1}{4}$ of Section 17, Township 39 North, Range 14 East of the Third Principal Meridian, described as follows:

Commencing at the intersection of the North line of West Roosevelt Road (108 feet wide) and the East line of South Morgan Street (66 feet wide); thence North $00^{\circ}-00'-28''$ East along East line of said South Morgan Street a distance of 279.20 feet to a point; thence North $90^{\circ}-00'$ East a distance of 49.46 feet to the Point of Beginning for said parcel of land; thence continuing North $90^{\circ}-00'$ East a distance of 20.00 feet; thence South $00^{\circ}-00'$ West a distance of 3.75 feet; thence North $90^{\circ}-00'$ East a distance of 4.25 feet; thence South $00^{\circ}-00'$ West a distance of 6.50 feet; thence South $90^{\circ}-00'$ West a distance of 4.25 feet; thence South $00^{\circ}-00'$ West a distance of 25.75 feet; thence South $90^{\circ}-00'$ West a distance of 20.00 feet; thence North $00^{\circ}-00'$ East a distance of 5.25 feet; thence South $90^{\circ}-00'$ West a distance of 4.25 feet; thence North $00^{\circ}-00'$ East a distance of 6.50 feet; thence North $90^{\circ}-00'$ East a distance of 4.25 feet; thence North $00^{\circ}-00'$ East a distance of 24.25 feet to the Point of Beginning, said point being 1044.83 feet West of the East line of the Southeast $\frac{1}{4}$ of said Section 17, measured perpendicularly to said East line from a point 312.65 feet North of the Southeast corner of the Southeast $\frac{1}{4}$ of said Section 17.

Parcel "C"

A parcel of land in the Southeast $\frac{1}{4}$ of Section 17, Township 39 North, Range 14 East of the Third Principal Meridian, described as follows:

Commencing at the intersection of the North line of West Roosevelt Road (108 feet wide) and the West line of South Morgan Street (66 feet wide); thence North $00^{\circ}-00'-28''$ East along the West line of said Morgan Street a distance of 394.15 feet to a point; thence South $90^{\circ}-00'$ West a distance of 166.38 feet to the Point of Beginning; thence continuing South $90^{\circ}-00'$ West a distance of 33.50 feet; thence North $00^{\circ}-00'$ East a distance of 93.00 feet; thence North $90^{\circ}-00'$ East a distance of 33.50 feet; thence South $00^{\circ}-00'$ West a distance of 93.00 feet to the Point of Beginning, said point being 1326.66 feet West of the East line of the Southeast $\frac{1}{4}$ of said Section 17, measured perpendicularly to said East line from a point 427.63 feet North of the Southeast corner of the Southeast $\frac{1}{4}$ of said Section 17.

Parcel "D"

A parcel of land in the Southeast $\frac{1}{4}$ of Section 17, Township 39 North, Range 14 East of the Third Principal Meridian, described as follows:

Commencing at the intersection of the North line of West Roosevelt Road (108 feet wide) and the West line of South Morgan Street (66 feet wide); thence

North 00°-00'-28" East along the West line of said Morgan Street a distance of 394.15 feet to a point; thence South 90°-00' West a distance of 133.38 feet to the Point of Beginning for said parcel of land; thence South 00°-00' West a distance of 75.00 feet; thence South 90°-00' West a distance of 30.00 feet; thence North 00°-00' East a distance of 75.00 feet; thence North 90°-00' East a distance of 30.00 feet to the Point of Beginning, said point being 1293.66 feet West of the East line of the Southeast $\frac{1}{4}$ of said Section 17, measured perpendicularly to said East line from a point 427.63 feet North of the Southeast corner of the Southeast $\frac{1}{4}$ of said Section 17.

Parcel "E"

A parcel of land in the Southeast $\frac{1}{4}$ of Section 17, Township 39 North, Range 14 East of the Third Principal Meridian, described as follows:

Commencing at the intersection of the North line West Roosevelt Road (108 feet wide) and the West line of South Morgan Street (66 feet wide); thence North 00°-00'-28" East along the West line of said South Morgan Street a distance of 620.15 feet to a point; thence South 90°-00' West a distance of 41.92 feet to the Point of Beginning for said parcel of land; thence continuing South 90°-00' West a distance of 39.00 feet; thence South 00°-00' West a distance of 5.62 feet; thence South 90°-00' West a distance of 10.75 feet; thence North 00°-00' East a distance of 20.08 feet; thence North 90°-00' East a distance of 10.75 feet; thence North 00°-00' East a distance of 34.29 feet; thence North 90°-00' East a distance of 39.00 feet; thence South 00°-00' West a distance of 48.75 feet to the Point of Beginning, said point being 1202.16 feet West of the East line of the Southeast $\frac{1}{4}$ of said Section 17, measured perpendicularly to said East line from a point 653.63 feet North of the Southeast corner of the Southeast $\frac{1}{4}$ of said Section 17.

Being the site upon which the Illinois Building Authority is to construct and complete Utilities Center Addition for the University of Illinois, Chicago Circle Campus, Chicago, Illinois.

In Witness Whereof, The Board of Trustees of the University of Illinois a body corporate and politic of the State of Illinois, has caused this instrument to be executed by its _____, pursuant to due authorization of its Board of Trustees, and its seal to be hereunto affixed and attested by the Secretary of The Board of Trustees of the University of Illinois, all as of the _____ day of _____, 19_____.

This instrument has been executed in several counterparts each of which may be considered as an original.

THE BOARD OF TRUSTEES OF THE
UNIVERSITY OF ILLINOIS

Attest:

Secretary

(Seal)

I hereby approve the foregoing transfer as being advantageous to the State of Illinois and in the public interest.

Dated _____, 19_____.

Governor, State of Illinois

Approved as to form and content:

Counsel for The Board of Trustees of
the University of Illinois

STATE OF ILLINOIS }
COUNTY OF } SS

Acknowledgement

I, _____, a Notary Public in and for the
County and State aforesaid, do here certify that _____
and _____, personnally known to me to be the _____
_____ and _____ of _____

....., respectively, whose names are subscribed to the foregoing instrument, personally appeared before me this day and acknowledged that they signed and delivered the said instrument of writing as and respectively, of said Board, pursuant to authority given by "An Act to create the Illinois Building Authority and to define its powers and duties," approved August 15, 1961, as amended (Ill. Rev. Stats. 1967, Chapter 127, Paragraphs 213.1-213.14), as their free and voluntary acts as the free and voluntary act of the, for the uses and purposes therein set forth.

Given under my hand and official seal, this day of, 19.....

.....
Notary Public

My Commission Expires

Certification

TO THE ILLINOIS BUILDING AUTHORITY:

This is to certify that an executed counterpart of the attached Instrument of Transfer was filed for record in my office on this date. Recorded in Book on Page Document

Dated this day of, 19.....

.....
Recorder of Deeds

..... County, Illinois

CHANGE IN FINANCING PURCHASE OF EQUIPMENT FOR THE UTILITIES DISTRIBUTION SYSTEM, PHASE III, CHICAGO CIRCLE

(14) The Board of Trustees on May 15, 1968, authorized award of a contract to the Okonite Company, La Grange, Illinois, in the amount of \$79,799.50 for the purchase and delivery of equipment for the Utilities Distribution System, Phase III, Chicago Circle, subject to release by the Governor of funds from state capital appropriations.

The funds have not been released. In the meantime, it is desirable to proceed with the purchase of this equipment, which is necessary for Phase III buildings, Chicago Circle, with the understanding that if the capital appropriations are not released, this contract will be financed from funds appropriated for permanent improvements.

Accordingly, the President of the University, with the concurrence of appropriate administrative officers, recommends that the contract previously awarded to Okonite Company, La Grange, in the amount of \$79,799.50 be funded as outlined above.

On motion of Mr. Grimes, this recommendation was approved by the following vote: Aye, Mr. Clement, Mr. Grimes, Mr. Hahn, Mr. Hughes, Mr. Pogue, Mr. Swain, Mr. Williamson; no, none; absent, Mr. Jones, Mr. Page, Governor Shapiro, Dr. Weatherly.

AGREEMENT WITH STATE DEPARTMENT OF REGISTRATION AND EDUCATION FOR CONSTRUCTION OF LABORATORY-OFFICE COMPLEX BUILDING, URBANA

(15) The Seventy-fifth General Assembly of the State of Illinois has included in "An Act to declare certain building projects and facilities to be in the public interest" a Laboratory-Office Complex Building for the Department of Registration and Education to be used by the State Geological and State Natural History Surveys. By state law scientific surveys are administered by the Department of Registration and Education and the Board of Natural Resources and Conservation, but are housed in the University of Illinois buildings.

In 1939-40 a new Natural Resources Building was constructed at the University by the state of Illinois for which an appropriation, separate from University appropriations, was made, supplemented by a federal grant. The construction work was directed by the State Department of Public Works and Buildings

(which has charge of all state construction projects except those of the University of Illinois). Once constructed, the building became the property of the University, and the maintenance and servicing have been the University's responsibility. (An agreement was entered into by the Board of Trustees and the Department of Registration and Education which, in addition to other conditions protecting the interests of both parties, provided that the plans, specifications, and contracts were subject to approval by the University. A like agreement was entered into for the Water Resources Building on the Urbana campus which was constructed in 1946-48.)

An agreement has been prepared with regard to the proposed construction and operation of the Laboratory-Office Complex Building which will be constructed by the Illinois Building Authority pursuant to plans and specifications approved by the University. The agreement provides that: the University will transfer jurisdiction of the site to the Illinois Building Authority; the Department of Registration and Education will be responsible for the rental under the lease with the Illinois Building Authority; the University will be responsible for the maintenance and operation of the building; and, upon expiration of the lease period, title to the site and building constructed thereon will be vested in the University.

The agreement has been approved by the Director of the Department of Registration and Education. The University Office of Physical Plant Planning and Construction has been working with the architects employed by the state to provide the architectural services for this building. Schematic drawings and the model have been reviewed and found to be satisfactory by the Office of Physical Plant Planning and Construction and the working drawings are approximately 80 per cent completed.

The President of the University, with the concurrence of appropriate administrative officers, recommends that the Board of Trustees authorize the Comptroller and Secretary of the Board to execute an agreement, as indicated above, with the Department of Registration and Education. It is further recommended that the University Office of Physical Plant Planning and Construction be given authority to review and give final approval to the plans and specifications.

On motion of Mr. Hughes, these recommendations were approved.

**AMENDMENT TO AGREEMENT WITH THE CITY OF URBANA FOR
WIDENING AND IMPROVING PARTS OF LINCOLN AVENUE, ILLINOIS
STREET, OREGON STREET, AND GREGORY PLACE, URBANA**

(16) On October 16, 1967, the Board of Trustees authorized the execution of an agreement with the city of Urbana to share in the costs of widening and improving parts of Lincoln Avenue, Illinois Street, Oregon Street, and Gregory Place. In the course of construction it has been determined that additional work is needed which will cost an estimated \$27,000.

Accordingly, the President of the University, with the concurrence of appropriate administrative officers, recommends that the aforementioned agreement with the city of Urbana be amended to provide for this work at an estimated increase in cost of \$27,000.

Funds are available from state capital appropriations to the University for 1967-69 and have been released.

Attached herewith is a memorandum from the Department of Plant and Services, a copy of which is being filed with the Secretary of the Board for record.

On motion of Mr. Hahn, this recommendation was approved by the following vote: Aye, Mr. Clement, Mr. Grimes, Mr. Hahn, Mr. Hughes, Mr. Pogue, Mr. Swain, Mr. Williamson; no, none; absent, Mr. Jones, Mr. Page, Governor Shapiro, Dr. Weatherly.

**INCREASE IN CONTRACT FOR CONSTRUCTION OF ART STUDIO
AND ART SCULPTURE BUILDINGS, URBANA**

(17) The President of the University, with the concurrence of appropriate administrative officers, recommends an increase of \$16,000 in the contract with Barber & DeAtley, Inc., Urbana, for general work for the construction of the Art Studio and Art Sculpture Buildings, Urbana-Champaign campus.

Funds are available in the project budget for this work.

Submitted herewith is a memorandum from the Department of Plant and Services, a copy of which is being filed with the Secretary of the Board for record.

On motion of Mr. Williamson, this recommendation was approved by the following vote: Aye, Mr. Clement, Mr. Grimes, Mr. Hahn, Mr. Hughes, Mr. Pogue, Mr. Swain, Mr. Williamson; no, none; absent, Mr. Jones, Mr. Page, Governor Shapiro, Dr. Weatherly.

**REQUEST TO THE ILLINOIS BUILDING AUTHORITY FOR
CONSTRUCTION OF THE LIBRARY FIFTH STACK
ADDITION, URBANA**

(18) The Illinois Building Authority received bids on October 3, 1968, for the construction of the Library Fifth Stack Addition — Library Building Addition — at the Urbana-Champaign campus. The project is part of the construction for the Urbana campus which the Board of Trustees at its meeting on July 26, 1967, requested the Illinois Building Authority to provide. The plans and specifications of the project comply with the requirements of the Facilities for the Handicapped Act.

The low base bid was submitted by Skoog Construction Company, Champaign, in the amount of \$1,254,000. The low bidder has previously done satisfactory work for the University and is deemed qualified to do this work.

The Authority will finance the construction and lease the facilities to the University. Funds for rental payments are available in state appropriations to the University. Jurisdiction of the land on which the project will be constructed will be transferred to the Authority.

The President of the University, with the concurrence of appropriate administrative officers, recommends that the Board of Trustees request the Illinois Building Authority to award a construction contract for this work to Skoog Construction Company, Champaign, the low base bidder, in the sum of \$1,254,000 and proceed to procure this facility for the use of the University.

The President also recommends that the Comptroller and the Secretary of the Board of Trustees be authorized to make, execute, acknowledge, and deliver such instruments of transfer, conveyance, lease, construction, and other documents as are necessary to provide for the carrying out of the foregoing project and facility by the Illinois Building Authority.

The President further recommends the adoption of the resolutions submitted herewith to implement the official actions required, including authorization of the instruments of transfer of jurisdiction of real estate to the Illinois Building Authority.

Attached herewith is a report of the Physical Plant Planning and Construction Office, including a schedule of the bids received, a copy of which is being filed with the Secretary of the Board for record.

Resolution

WHEREAS the Seventy-fifth General Assembly of the State of Illinois has declared it to be in the public interest that the Illinois Building Authority construct, on behalf of The Board of Trustees of the University of Illinois, the Library Fifth Stack Addition (Library Building Addition) at the Urbana Campus of the University of Illinois in Urbana, Illinois; and

WHEREAS for that purpose it will be necessary for the Illinois Building Authority to acquire jurisdiction of the real estate upon which said building will be located; and

WHEREAS The Board of Trustees of the University of Illinois, a public corporation of the State of Illinois with its principal office in Urbana, Illinois has been requested by the Illinois Building Authority to transfer jurisdiction of said real estate for the construction of said building.

Now, Therefore, Be It and It Is Hereby Resolved, by The Board of Trustees of the University of Illinois at its October 16, 1968 meeting, as follows:

That the Comptroller and the Secretary of The Board of Trustees of the University of Illinois be and they are hereby authorized to execute, acknowledge and deliver, in the name and on behalf of this corporation, an instrument of transfer of jurisdiction to the property described in the attached document en-

titled "Instrument of Transfer" which said form of Instrument of Transfer is, by this reference, incorporated in and made a part of this Resolution.

On motion of Mr. Clement, the foregoing resolution was adopted by the following vote: Aye, Mr. Clement, Mr. Grimes, Mr. Hahn, Mr. Hughes, Mr. Pogue, Mr. Swain, Mr. Williamson; no, none; absent, Mr. Jones, Mr. Page, Governor Shapiro, Dr. Weatherly.

Date: October 17, 1968
I.B.A. Project No. 75-16
Library Fifth Stack Addition
also known as Library Building Addition
University of Illinois, Urbana Campus

Instrument of Transfer

In accordance with the provisions of "An Act to create the Illinois Building Authority and to define its powers and duties," approved August 15, 1961, as amended, and Resolution No. 68 IBA 226, adopted on the 26th day of September, 1968 by the Illinois Building Authority, a body corporate and politic of the state of Illinois, created under said mentioned Act, requesting the transfer of the certain described real estate and jurisdiction thereof to the Illinois Building Authority.

Now, Therefore, the undersigned The Board of Trustees of the University of Illinois, a body corporate and politic of the State of Illinois, does hereby transfer jurisdiction of the following real estate to the Illinois Building Authority, to wit: Situated in the State of Illinois, the County of Champaign, and the City of Champaign, in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 18, Township 19 North and Range 9 East of the Third Principal Meridian, and being more fully bounded and described as follows:

Beginning at a point 203.4 feet distant south of, and 175.9 feet distant west of the NE corner of the NE $\frac{1}{4}$ SW $\frac{1}{4}$ of said Section 18; thence westerly, a distance of 37.83 feet to a corner; thence southerly, a distance of 115.92 feet to a corner; thence easterly, a distance of 37.83 feet to a corner; thence northerly, a distance of 115.92 feet to the place of beginning, containing 0.10 acres, more or less.

Being the site upon which the Illinois Building Authority is to construct and complete a Library Addition for the University of Illinois at the Champaign-Urbana Campus.

In Witness Whereof, The Board of Trustees of the University of Illinois, a body corporate and politic of the State of Illinois, has caused this instrument to be executed by its Comptroller, pursuant to due authorization of its Board of Trustees, and its seal to be hereunto affixed and attested by the Secretary of The Board of Trustees of the University of Illinois, all as of the day of, 1968.

This instrument has been executed in several counterparts each of which may be considered as an original.

THE BOARD OF TRUSTEES OF THE
UNIVERSITY OF ILLINOIS

By.....
Comptroller

Attest:

.....
Secretary (Seal)

I hereby approve the foregoing transfer as being advantageous to the State of Illinois and in the public interest.

Dated, 19.....

.....
Governor, State of Illinois

Approved as to form and content:

.....
For Counsel for The Board of
Trustees of the University of Illinois

STATE OF ILLINOIS }
COUNTY OF CHAMPAIGN } SS

Acknowledgement

I, _____, a Notary Public in and for the County and State aforesaid, do hereby certify that H. O. Farber and Earl W. Porter, personally known to me to be the Comptroller and Secretary of The Board of Trustees of the University of Illinois, respectively, whose names are subscribed to the foregoing instrument, personally appeared before me this day and acknowledged that they signed and delivered the said instrument of writing as Comptroller and Secretary respectively, of said Board, pursuant to authority given by "An Act to create the Illinois Building Authority and to define its powers and duties," approved August 15, 1961, as amended (Ill. Rev. Stats. 1967, Chapter 127, Paragraphs 213.14), as their free and voluntary acts as the free and voluntary act of The Board of Trustees of the University of Illinois, for the uses and purposes therein set forth.

Given under my hand and official seal, this _____ day of _____ A.D., 1968.

Notary Public

My Commission Expires _____

Resolution

Be It, and It Hereby Is, Resolved by The Board of Trustees of the University of Illinois, a public corporation of the State of Illinois, that the Illinois Building Authority be, and it hereby is, requested to award to the Skoog Construction Company, Champaign, Illinois, a contract for the entire work for the construction of the Library Fifth Stack Addition (Library Building Addition) at the Urbana Campus for the fixed price of \$1,254,000 being the base bid.

Be It, and It Hereby Is, Further Resolved by The Board of Trustees of the University of Illinois, a public corporation of the State of Illinois, that the Comptroller and Secretary of this public corporation be, and they hereby are, authorized to make, execute, acknowledge and deliver, in the name and in behalf of this corporation, such instruments of transfer, conveyance, lease, contract, and other documents as are necessary or appropriate in order to provide for the carrying out of the foregoing project and facility by the Illinois Building Authority.

On motion of Mr. Clement, the foregoing resolution was adopted by the following vote: Aye, Mr. Clement, Mr. Grimes, Mr. Hahn, Mr. Hughes, Mr. Pogue, Mr. Swain, Mr. Williamson; no, none; absent, Mr. Jones, Mr. Page, Governor Shapiro, Dr. Weatherly.

REQUEST TO ILLINOIS BUILDING AUTHORITY TO CONTRACT FOR CONSTRUCTION OF THE FREER GYMNASIUM ADDITION, URBANA

(19) On September 10, 1968, the Illinois Building Authority received bids for construction of the Addition to the Freer Gymnasium—Women's Gymnasium Addition—at the Urbana-Champaign campus. The project is part of the construction for the Urbana campus which the Board of Trustees at its meeting on July 26, 1967, requested the Illinois Building Authority to provide. The plans and specifications of this project comply with the requirements of the Facilities for the Handicapped Act. The Authority will finance the construction and lease the facilities to the University. Funds for rental payments are available in state appropriations to the University and from previously announced student fees.

The low base bid was submitted by J. D. P. Associates, Inc., Terre Haute, Indiana, in the amount of \$1,575,000. Proposals were also received from Skoog Construction Company, Champaign; McCarthy Bros. Construction Company, St. Louis, Missouri; and Kuhne-Simmons Co., Inc., Champaign.

The State of Illinois Board of Higher Education has arranged with the Illinois Building Authority that the Authority will not use a portion of the amount declared by the General Assembly to be in the public interest until the State of Illinois Board of Higher Education specifically approves such use. This reserved amount consists of a "cost increase reserve" to be used for the pur-

pose of offsetting cost increases determined by actual bid experience. In accordance with this procedure adopted by the State of Illinois Board of Higher Education at its meeting on October 3, 1967, and in order to complete construction as planned, it is necessary that the University request the State of Illinois Board of Higher Education and the Illinois Building Authority to release the \$116,500 in the "cost increase reserve" for this project.

Assuming the release of the "cost increase reserve" as stated above, the project budget will still be \$592,555 in excess of the amount declared to be in the public interest for this particular project by the Seventy-fifth General Assembly. However, the Act provides that the cost of any specific project may exceed the amount set forth therefor provided that the aggregate amount to be financed by the Illinois Building Authority for each Board is not exceeded. In order to finance this deficit, it will be necessary to request the Illinois Building Authority to allocate to this project an additional \$592,555 from the funds declared to be in the public interest and which are available from amounts not required for the Small Animal Clinic Buildings.

The Authority will finance the construction and will lease the facilities to the University. Jurisdiction of the land upon which the project will be constructed is being transferred to the Authority.

Accordingly, the President of the University, with the concurrence of appropriate administrative officers, recommends:

1. The State of Illinois Board of Higher Education and the Illinois Building Authority be requested to release the \$116,500 "cost increase reserve" to this project.
2. The Illinois Building Authority be requested to allocate an additional \$592,555 to this project from the funds declared to be in the public interest for the Small Animal Clinic Buildings for the use of the Board of Trustees of the University of Illinois.
3. The Board of Trustees request the Illinois Building Authority to award a construction contract for the sum of \$1,575,000 to J. D. P. Associates, Inc., Terre Haute, Indiana, the low base bidder, and proceed to procure this facility for the use of the University.

The President also recommends that the Comptroller and the Secretary of the Board be authorized to make, execute, acknowledge, and deliver such instruments of transfer, conveyance, lease, contract, and other documents as are necessary to provide for the carrying out of the foregoing project and facility by the Illinois Building Authority.

The President further recommends the adoption of the resolutions submitted herewith to implement the official actions required, including authorization of the instrument of transfer of jurisdiction of real estate to the Illinois Building Authority.

Attached herewith is a report of the Physical Plant Planning and Construction Office, including a schedule of the bids received, a copy of which is being filed with the Secretary of the Board for record.

Resolution

WHEREAS the Seventy-fifth General Assembly of the State of Illinois has declared it to be in the public interest that the Illinois Building Authority construct, on behalf of The Board of Trustees of the University of Illinois, an Addition to the Freer Gymnasium (Women's Gymnasium) at the Urbana Campus of the University of Illinois in Urbana, Illinois; and

WHEREAS for that purpose it will be necessary for the Illinois Building Authority to acquire jurisdiction of the real estate upon which said building will be located; and

WHEREAS The Board of Trustees of the University of Illinois, a public corporation of the State of Illinois with its principal office in Urbana, Illinois has been requested by the Illinois Building Authority to transfer jurisdiction of said real estate for the construction of said building.

Now, Therefore, Be It and It Is Hereby Resolved, by The Board of Trustees of the University of Illinois at its October 16, 1968 meeting, as follows:

That the Comptroller and the Secretary of The Board of Trustees of the University of Illinois be and they are hereby authorized to execute, acknowledge and deliver, in the name and on behalf of this corporation, an instrument of

transfer of jurisdiction to the property described in the attached document entitled "Instrument of Transfer" which said form of Instrument of Transfer is, by this reference, incorporated in and made a part of this Resolution.

On motion of Mr. Grimes, the foregoing resolution was adopted by the following vote: Aye, Mr. Clement, Mr. Grimes, Mr. Hahn, Mr. Hughes, Mr. Pogue, Mr. Swain, Mr. Williamson; no, none; absent, Mr. Jones, Mr. Page, Governor Shapiro, Dr. Weatherly.

Date: October 17, 1968
I.B.A. Project No. 75-18
Addition to Women's Gymnasium
University of Illinois, Urbana Campus

Instrument of Transfer

In accordance with the provisions of "An Act to create the Illinois Building Authority and to define its powers and duties," approved August 15, 1961, as amended, and Resolution No. 68 IBA 155, adopted on the 22nd day of April, 1968 by the Illinois Building Authority, a body corporate and politic of the State of Illinois, created under said mentioned Act, requesting the transfer of the certain described real estate and jurisdiction thereof to the Illinois Building Authority.

Now, Therefore, the undersigned The Board of Trustees of the University of Illinois, a body corporate and politic of the State of Illinois, does hereby transfer jurisdiction of the following real estate to the Illinois Building Authority, to wit:

Beginning at a point lying 160.50 feet south and 256.90 feet East of the Northwest Corner of the NE $\frac{1}{4}$, SE $\frac{1}{4}$, Section 18, T. 19N., R. 9E, 3rd. Principal Meridian, City of Urbana, Champaign County, Illinois; thence East 104.50 feet to a point; thence North 22.16 feet to a point; thence East 70.67 feet to a point; thence South 102.33 feet to a point; thence West 96.09 feet to a point on the East wall of the existing Women's Gym Building; thence North along said East wall of the existing Women's Gym Building 39.16 feet to a point, being the Northeast Corner of said existing Women's Gym Building; thence West along the North wall of said existing Women's Gym Building a distance of 79.08 feet to a point, being 7.0 feet East of the Northwest Corner of said Building; thence North 41.00 feet to the point of beginning, containing 0.2872 Acres, more or less.

Being the site upon which the Illinois Building Authority is to construct and complete an addition to Women's Gymnasium at the Champaign-Urbana Campus.

In Witness Whereof, The Board of Trustees of the University of Illinois, a body corporate and politic of the State of Illinois, has caused this instrument to be executed by its Comptroller, pursuant to due authorization of its Board of Trustees, and its seal to be hereunto affixed and attested by the Secretary of The Board of Trustees of the University of Illinois, all as of the day of, 1968.

This instrument has been executed in several counterparts each of which may be considered as an original.

THE BOARD OF TRUSTEES OF THE
UNIVERSITY OF ILLINOIS

By
Comptroller

Attest:

.....
Secretary

(Seal)

I hereby approve the foregoing transfer as being advantageous to the State of Illinois and in the public interest.

Dated, 19.....

.....
Governor, State of Illinois

Approved as to form and content:

.....
For Counsel for the Board of
Trustees of the University of Illinois

STATE OF ILLINOIS }
COUNTY OF CHAMPAIGN } SS

Acknowledgement

I, _____, a Notary Public in and for the County and State aforesaid, do hereby certify that H. O. Farber and Earl V. Porter, personally known to me to be the Comptroller and Secretary of The Board of Trustees of the University of Illinois, respectively, whose names are subscribed to the foregoing instrument, personally appeared before me this day and acknowledged that they signed and delivered the said instrument of writing as Comptroller and Secretary respectively, of said Board, pursuant to authority given by "An Act to create the Illinois Building Authority and to define its powers and duties," approved August 15, 1961, as amended (Ill. Rev. Stats. 1967, Chapter 127, Paragraphs 213.14), as their free and voluntary acts as the free and voluntary act of The Board of Trustees of the University of Illinois, for the uses and purposes therein set forth.

Given under my hand and official seal, this _____ day of _____ A.D., 1968.

Notary Public

My Commission Expires _____

Resolution

Be It, and It Hereby Is, Resolved by The Board of Trustees of the University of Illinois, a public corporation of the State of Illinois, that the Illinois Building Authority be, and it hereby is, requested to award to the J. D. P. Associates, Inc., Terre Haute, Indiana, a contract for the entire work for the construction of an Addition to the Freer Gymnasium (Women's Gymnasium) at the Urbana Campus for the fixed price of \$1,575,000 being the base bid.

Be It, and It Hereby Is, Further Resolved by The Board of Trustees of the University of Illinois, a public corporation of the State of Illinois, that the Comptroller and Secretary of this public corporation be, and they hereby are, authorized to make, execute, acknowledge and deliver, in the name and in behalf of this corporation, such instruments of transfer, conveyance, lease, contract, and other documents as are necessary or appropriate in order to provide for the carrying out of the foregoing project and facility by the Illinois Building Authority.

On motion of Mr. Grimes, the foregoing resolution was adopted by the following vote: Aye, Mr. Clement, Mr. Grimes, Mr. Hahn, Mr. Hughes, Mr. Pogue, Mr. Swain, Mr. Williamson; no, none; absent, Mr. Jones, Mr. Page, Governor Shapiro, Dr. Weatherly.

TRANSFER OF JURISDICTION OF PROPERTY TO ILLINOIS BUILDING AUTHORITY FOR CONSTRUCTION OF PHYSICAL EDUCATION BUILDING, CHICAGO CIRCLE

(20) The University has a contract with the city of Chicago for the purchase of approximately seven acres of land on which is to be constructed the Physical Education Building, Chicago Circle campus. Title to and possession of this land will be delivered to the University as soon as the few remaining occupants are relocated.

This project is one which the Board of Trustees requested the Illinois Building Authority to provide in the 1967-69 capital program. The Illinois Building Authority plans to sell bonds in the near future and in order that this project can be included in the projects to be financed by the sale of these bonds, the Authority has requested the Board of Trustees to transfer jurisdiction of the land on which the building will be constructed.

Accordingly, the President of the University, with the concurrence of appropriate administrative officers, recommends that the Comptroller and the Secretary of the Board be authorized to make, execute, acknowledge, and deliver such instruments as are necessary to complete this transfer when title and possession are delivered to the University. Adoption of the resolution submitted herewith is required to implement the above.

Resolution

WHEREAS, the Seventy-fifth General Assembly of the State of Illinois has declared it to be in the public interest that the Illinois Building Authority construct, on behalf of The Board of Trustees of the University of Illinois, a Physical Education Building at the Chicago Circle campus of the University of Illinois; and

WHEREAS, for that purpose it will be necessary for the Illinois Building Authority to acquire jurisdiction of the real estate upon which said building will be located; and

WHEREAS, The Board of Trustees of the University of Illinois, a public corporation of the State of Illinois with its principal office in Urbana, Illinois, has been requested by the Illinois Building Authority to transfer jurisdiction of said real estate for the construction of said building;

Now, Therefore, Be It and It Is Hereby Resolved by The Board of Trustees of the University of Illinois that the Comptroller and the Secretary of the Board of Trustees of the University of Illinois be and they are hereby authorized, as soon as title and possession of the property described in the attached document entitled "Instrument of Transfer" are received from the City of Chicago, to execute, acknowledge, and deliver in the name and on behalf of this corporation an instrument of transfer of jurisdiction to the property described in the attached document entitled "Instrument of Transfer" which said form of instrument of transfer is by this reference incorporated in and made a part of this resolution.

On motion of Mr. Pogue, the foregoing resolution was adopted by the following vote: Aye, Mr. Clement, Mr. Grimes, Mr. Hahn, Mr. Hughes, Mr. Pogue, Mr. Swain, Mr. Williamson; no, none; absent, Mr. Jones, Mr. Page, Governor Shapiro, Dr. Weatherly.

Date

Instrument of Transfer

In accordance with the provisions of "An Act to create the Illinois Building Authority and to define its powers and duties," approved August 15, 1961, as amended, and Resolution No. 68 IBA 205, adopted on the 30th day of July, 1968 by the Illinois Building Authority, a body corporate and politic of the State of Illinois, created under said mentioned Act, requesting the transfer of the certain described real estate and jurisdiction thereof to the Illinois Building Authority;

Now, Therefore, the undersigned The Board of Trustees of the University of Illinois does hereby transfer jurisdiction of the following real estate to the Illinois Building Authority, to wit:

Exhibit "A"

A tract of land in the East $\frac{1}{2}$ of the Northeast $\frac{1}{4}$ of Section 20, Township 39 North, Range 14 East of the Third Principal Meridian, in Cook County, Illinois, bounded and described as follows:

Commencing at the intersection of the South line of West Roosevelt Road (108 feet wide) and the West line of South Newberry Avenue (66 feet wide); thence South $0^{\circ}02'40''$ West along the West line of said South Newberry Avenue a distance of 30.01 feet; thence North 90° West a distance of 167.12 feet to the point of beginning for said tract of land; thence South 0° East a distance of 200.416 feet; thence North 90° West a distance of 42.666 feet, thence North 0° West a distance of 16.916 feet; thence North 90° West a distance of 9.166 feet; thence South 0° East a distance of 8.729 feet; thence South 45° West a distance of 19.122 feet; thence North 90° West a distance of 102.038 feet; thence North 45° West a distance of 19.122 feet; thence North 0° West a distance of 15.812 feet; thence North 90° West a distance of 2.000 feet; thence South 45° West a distance of 3.889 feet; thence North 90° West a distance of 6.166 feet; thence North 45° West a distance of 3.889 feet; thence North 90° West a distance of 16.000 feet; thence South 45° West a distance of 3.889 feet; thence North 90° West a distance of 6.166 feet; thence North 45° West a distance of 3.889 feet; thence North 90° West a distance of 2.000 feet; thence South 0° East a distance of 15.812 feet; thence South 45° West a distance of 19.122 feet; thence North

90° West a distance of 162.958 feet; thence North 45° West a distance of 19.122 feet; thence North 0° West a distance of 8.729 feet; thence North 90° West a distance of 14.833 feet; thence South 0° East a distance of 17.000 feet; thence North 90° West a distance of 101.500 feet; thence North 0° West a distance of 139.080 feet; thence South 90° East a distance of 7.166 feet; thence North 0° West a distance of 6.614 feet; thence North 45° West a distance of 10.134 feet; thence North 0° West a distance of 47.718 feet; thence South 90° East a distance of 101.500 feet; thence South 0° East a distance of 17.000 feet; thence South 90° East a distance of 14.833 feet; thence North 0° West a distance of 8.729 feet; thence North 45° East a distance of 19.122 feet; thence South 90° East a distance of 162.958 feet; thence South 45° East a distance of 19.122 feet; thence South 0° East a distance of 15.812 feet; thence South 90° East a distance of 2.000 feet; thence North 45° East a distance of 3.889 feet; thence South 90° East a distance of 6.166 feet; thence South 45° East a distance of 3.889 feet; thence South 90° East a distance of 16.000 feet; thence North 45° East a distance of 3.889 feet; thence South 90° East a distance of 6.166 feet; thence South 45° East a distance of 3.889 feet; thence South 90° East a distance of 2.000 feet; thence North 0° West a distance of 15.812 feet; thence North 45° East a distance of 19.122 feet; thence South 90° East a distance of 102.038 feet; thence South 45° East a distance of 19.122 feet; thence South 0° East a distance of 8.729 feet; thence South 90° East a distance of 9.166 feet; thence North 0° West a distance of 16.916 feet; thence South 90° East a distance of 42.666 feet to the point of beginning.

Being the site upon which the Illinois Building Authority is to construct and complete Physical Education Building for the University of Illinois at the Chicago Circle Campus.

In Witness Whereof, The Board of Trustees of the University of Illinois a body corporate and politic of the State of Illinois, has caused this instrument to be executed by its Comptroller, pursuant to due authorization of its Board of Trustees, and its seal to be hereunto affixed and attested by the Secretary of The Board of Trustees of the University of Illinois, all as of the day of, 19.....

This instrument has been executed in several counterparts each of which may be considered as an original.

THE BOARD OF TRUSTEES OF THE
UNIVERSITY OF ILLINOIS

By.....
Comptroller

Attest:

.....
Secretary

(Seal)

I hereby approve the foregoing transfer as being advantageous to the State of Illinois and in the public interest.

Dated, 19.....

.....
Governor, State of Illinois

Approved as to form and content:

.....
Counsel for The Board of Trustees
of the University of Illinois

STATE OF ILLINOIS }
COUNTY OF CHAMPAIGN } SS

Acknowledgement

I,, a Notary Public in and for the
County and State aforesaid, do hereby certify that
and, personally known to me to be the
and of
....., respectively, whose names are sub-

scribed to the foregoing instrument, personally appeared before me this day and acknowledged that they signed and delivered the said instrument of writing as _____ and _____ respectively, of said Board, pursuant to authority given by "An Act to create the Illinois Building Authority and to define its powers and duties," approved August 15, 1961, as amended (Ill. Rev. Stats. 1967, Chapter 127, Paragraphs 213.1-213.14), as their free and voluntary acts as the free and voluntary act of the _____, for the uses and purposes therein set forth.

Given under my hand and official seal, this _____ day of _____, 19_____.

Notary Public

My Commission Expires _____

Certification

TO THE ILLINOIS BUILDING AUTHORITY :

This is to certify that an executed counterpart of the attached Instrument of Transfer was filed for record in my office on this date. Recorded in Book _____ on Page _____ Document _____.

Dated this _____ day of _____, 19_____.

Recorder of Deeds

County, Illinois

REQUEST TO ILLINOIS BUILDING AUTHORITY FOR CONSTRUCTION OF PHYSICAL EDUCATION BUILDING, CHICAGO CIRCLE

(21) The Illinois Building Authority received bids on October 8, 1968, for the construction of the Physical Education Building at the Chicago Circle campus. This project is part of the construction for the Chicago Circle campus which the Board of Trustees at its meeting on July 26, 1967, requested the Illinois Building Authority to provide. The plans and specifications of this project comply with the requirements of the Facilities for the Handicapped Act.

The low bid was submitted by S. N. Nielsen Company, Chicago, in the amount of \$5,954,000, it being the amount of the low base bid—\$5,963,000—less deductive alternate 1—\$9,000. Bids were also received from six other firms.

The Authority will finance the construction and lease the facilities to the University. Funds for rental payments are available in state appropriations to the University. Jurisdiction of the land on which the project will be constructed will be transferred to the Authority.

The President of the University, with the concurrence of appropriate administrative officers, recommends that the Board of Trustees request the Illinois Building Authority to award a construction contract to S. N. Nielsen Company, Chicago, in the amount of \$5,954,000, being the low base bid less deductive alternate 1, and proceed to procure this facility for the use of the University.

The President also recommends that the Comptroller and the Secretary of the Board of Trustees be authorized to make, execute, acknowledge, and deliver such instruments of transfer, conveyance, lease, construction, and other documents as are necessary to provide for the carrying out of the foregoing project and facility by the Illinois Building Authority.

The President further recommends the adoption of the resolution submitted herewith to implement the official actions required.

Attached herewith is a report of the Physical Plant Planning and Construction Office, including a schedule of the bids received, a copy of which is being filed with the Secretary of the Board for record.

Resolution

Be It, and It Hereby Is, Resolved by The Board of Trustees of the University of Illinois, a public corporation of the State of Illinois, that the Illinois

Building Authority be, and it hereby is, requested to award to S. N. Nielsen Company, Chicago, Illinois, a contract for the entire construction of the Physical Education Building at the Chicago Circle Campus for the fixed price of \$5,954,000, being the base bid, less deductive alternate 1.

Be It, and It Hereby Is, Further Resolved by The Board of Trustees of the University of Illinois, a public corporation of the State of Illinois, that the Comptroller and Secretary of this public corporation be, and they hereby are, authorized to make, execute, acknowledge and deliver, in the name and in behalf of this corporation, such instruments of transfer, conveyance, lease, contract, and other documents as are necessary or appropriate in order to provide for the carrying out of the foregoing project and facility by the Illinois Building Authority.

On motion of Mr. Clement, the foregoing resolution was adopted by the following vote: Aye, Mr. Clement, Mr. Grimes, Mr. Hahn, Mr. Hughes, Mr. Pogue, Mr. Swain, Mr. Williamson; no, none; absent, Mr. Jones, Mr. Page, Governor Shapiro, Dr. Weatherly.

PURCHASES

(22) The President submitted, with his concurrence, a list of purchases recommended by the Directors of Purchases and the Vice President and Comptroller; also a purchase authorized by the President.

The list of purchases was presented in two categories: purchases from appropriated funds (i.e., from state appropriations to the University) and purchases from institutional funds. The latter term designates funds received by the University under contracts with the United States government, contracts with private corporations and other organizations, funds from foundation grants, and grants from corporations and other donors, and University revolving funds authorized by law.

The total amounts of these purchases were:

From Appropriated Funds

Recommended..... \$423 622 24

From Institutional Funds

Authorized..... 8 037 50

Recommended..... 438 457 68

Grand Total \$870 117 42

A complete list of the purchases, with supporting information, including the quotations received, was sent to each member of the Board in advance of the meeting, and a copy is being filed with the Secretary of the Board for record.

On motion of Mr. Hughes, the purchase authorized by the President was approved, and the purchases recommended were authorized.

COMPTROLLER'S REPORT OF PURCHASES APPROVED

(23) The Vice President and Comptroller also submitted a report of purchases approved by him on recommendation of the Directors of Purchases in amounts of \$5,000 to \$7,500. A copy of this report is filed with the Secretary.

This report was received for record.

COMPTROLLER'S MONTHLY REPORT OF CONTRACTS EXECUTED

(24) The Comptroller's monthly report of contracts executed was submitted.

New Contracts

<i>With Whom</i>	<i>Purpose</i>	<i>Amount to be Paid to the University</i>
State of Illinois, Secretary of State and Illinois State Library	Library career recruitment project	\$ 22 955
United States Air Force F-19628-69-C-0015	Research studies in electromagnetic boundary value problems and inverse scattering theory	16 979

<i>With Whom</i>	<i>Purpose</i>	<i>Amount to be Paid to the University</i>
United States Army DAHC04-69-C-0007	Theoretical problems in solid state and low temperature physics	\$ 50 321
United States Department of Commerce, National Bureau of Standards CST-447	Preparation of portions of a book on fallout shielding fundamentals	44 375
United States Department of Health, Education, and Welfare OEG-0-9-232030-0762	Application of operant principles to the special education of mentally retarded and emotionally disturbed children	167 497
United States Navy N62269-69-C-0013	Parameters of plasma discharge displays	24 984
<i>Total</i>		<u>\$327 111</u>

Change Orders

<i>With Whom</i>	<i>Purpose</i>	<i>Amount to be Paid to the University</i>
United States Air Force: F 33615-67-C1190 AF19(628)5167	Behavior of highly damped structure Broadband isotropic antenna system	\$ 21 009 48 951
United States Army Defense Atomic Support Agency DA-49-146-XZ-218	Analysis and correlation of experimental results of operation "Pile Driver"	7 000
United States Atomic Energy Commission AT(11-1)-1628	Studies on immunologic recognition and immunologic memory	20 078
United States Department of Health, Education, and Welfare OEG1-7-07031-3895	Internships for developing leaders in the art of communication	59 406
United States Navy Nobs-94307	Fatigue testing of Hy-So specimens and models in an effort to predict fatigue in submarine hull structure	12 500
<i>Total</i>		<u>\$168 944</u>

<i>With Whom</i>	<i>Purpose</i>	<i>Amount to be Paid by the University</i>
Barber & DeAtley, Inc.	Cost-plus contracts: Dairy Experimental Round Barns East Chemistry Building Electrical Engineering Research Laboratory Hott Memorial Center, Monticello Men's Old Gymnasium Annex	\$ 8 000 8 900 12 000 19 100 10 658
Cool-Rite Mechanical Contractor's, Inc.	Cost-plus contracts: piping	7 868
Emric Electric, Inc.	Cost-plus contracts: electrical	13 200
Fries Walters Co.	Cost-plus contracts: electrical	5 850
George S. Grimmett & Co.	Cost-plus contract: plastering	5 000
Sargent & Lundy	Engineering services	10 000
Simpson Construction Co.	Cost-plus contracts: general	23 000
	Medical Sciences addition Illinois Neuropsychiatric Institute Building (950)	9 650 5 898
Thomas Plumbing & Heating	Cost-plus contracts: plumbing	9 457
<i>Total</i>		<u>\$148 581</u>

Summary

Amount to be paid to the University.....	\$496 055
Amount to be paid by the University.....	148 581

This report was received for record.

INVESTMENT REPORT **For the Month of August, 1968**

Report of the Finance Committee

(25) The Finance Committee reported the following changes in investments of endowment funds:

Duke

Purchase:

\$15 000 U.S. Treasury bills due 2/13/69..... \$14 607 79

Goldberg

Purchase:

\$2 000 Walter E. Heller demand notes..... 2 000 00

Pool

Purchase:

\$50 000 CIT Financial Corporation demand notes..... 50 000 00

Rust

Sale:

\$47 000 Commercial Credit demand notes..... 47 000 00

Purchase:

\$73 000 U.S. Treasury bills due 6/30/69..... 69 806 25

Report of the Comptroller

The Comptroller reported the following changes in investments of current and unexpended plant funds, which he has been authorized to make:

Current Funds

Ford Foundation — General Engineering

Sale:

\$17 000 U.S. Treasury bills due 6/30/69..... \$ 16 246 01

Purchase:

\$26 000 U.S. Treasury bills due 6/30/69..... 24 870 00

Ford Foundation — International Programs

Purchase:

\$134 000 U.S. Treasury bills due 2/13/69..... 130 422 53

Star Course Agency

Purchase:

\$20 000 U.S. Treasury bills due 5/31/69..... 19 220 69

Construction Funds

Executive Development Center

Purchase:

\$12 000 U.S. Treasury 5½ per cent notes due 8/15/74..... 11 954 40

Orchard Apartments

Sale:

\$120 000 U.S. Treasury bills due 11/30/68..... 117 839 47

Purchase:

\$140 000 U.S. Treasury bills due 1/30/69..... 136 622 89

Sinking Funds

Assembly Hall

Purchase:

\$9 000 U.S. Treasury 4 per cent bonds due 2/15/70..... 8 856 56

Housing Revenue Bonds

Purchases:

\$1 444 000 U.S. Treasury bills due 9/19/68..... 1 437 331 52

123 000 U.S. Treasury 4 per cent bonds due 2/15/70..... 120 961 88

Illini Union and Health Center

Purchases:

\$336 000 U.S. Treasury bills due 9/19/68.....	\$	334 557 07
190 000 U.S. Treasury 4 per cent bonds due 8/15/73.....		179 668 75

Men's Residence Halls of 1957

Purchase:

\$286 000 U.S. Treasury bills due 9/19/68.....		284 854 81
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Revenue Bonds of 1956

Purchases:

\$43 000 U.S. Treasury bills due 9/19/68.....		42 801 42
5 000 U.S. Treasury bills due 3/24/69.....		4 846 83

Student Services Building

Purchase:

\$96 000 U.S. Treasury bills due 9/19/68.....		95 615 60
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Women's Residence Halls

Purchase:

\$208 000 U.S. Treasury bills due 9/19/68.....		207 039 44
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This report was received for record.

DEGREES CONFERRED

The Secretary presented for record the following list of degrees conferred on candidates at the Urbana-Champaign campus on October 15, 1968.

Summary

Graduate College	
Doctor of Philosophy.....	238
Doctor of Education.....	27
Doctor of Musical Arts.....	2
Master of Arts.....	36
Master of Science.....	86
Master of Music.....	3
Master of Education.....	11
Master of Television.....	1
Master of Accounting Science.....	1
Master of Comparative Law.....	2
Master of Urban Planning.....	1
Advanced Certificate.....	2
<i>Total, Graduate College.....</i>	<i>(410)</i>
College of Agriculture	
Bachelor of Science.....	6
College of Engineering	
Bachelor of Science.....	3
College of Liberal Arts and Sciences	
Bachelor of Arts.....	18
Bachelor of Science.....	6
<i>Total, College of Liberal Arts and Sciences.....</i>	<i>(24)</i>
College of Law	
Juris Doctor.....	2
College of Education	
Bachelor of Science.....	4
College of Commerce and Business Administration	
Bachelor of Science.....	9
College of Fine and Applied Arts	
Bachelor of Architecture.....	1
Bachelor of Fine Arts.....	2
<i>Total, College of Fine and Applied Arts.....</i>	<i>(3)</i>
College of Physical Education	
Bachelor of Science.....	4
College of Veterinary Medicine	
Bachelor of Science.....	1
<i>Total, Degrees Conferred at Urbana-Champaign.....</i>	<i>466</i>

GRADUATE COLLEGE**Degree of Doctor of Philosophy***In Accountancy*

- PHILIP YUEN-KO FU, Dipl., Chung Chi College, 1957; M.S., Brigham Young University, 1962
LEROY FRANCIS IMDIEKE, B.S., Valley City State College (North Dakota), 1953; M.A., University of North Dakota, 1957
ALLAN SEYMOUR ROSENBAUM, B.S., University of Colorado, 1962; M.A.S., 1963
EPHRAIM PHILIP SMITH, B.S., Providence College, 1964; M.S., University of Massachusetts, 1965
JERRY JOSEPH WEYGANDT, B.S., M.A.S., 1964, 1965

In Aeronautical and Astronautical Engineering

- JAMES LLEWELLYN MYERS, JR., B.S., Pennsylvania State University, 1960; M.S., 1963
BERNARD MATTHEW SINDERMAN, B.S., M.S., 1964, 1966

In Agricultural Economics

- ISMAIL TAWFIQ EL-ZABRI, A.B., M.S., 1962, 1966
JOHN RODNEY LEMON, A.B., Monmouth College, 1964; M.S., 1967
JOSEPH VICTOR LEUNIS, Com.Engr., Catholic University of Louvain, 1962; M.S., 1965
JANAK SINGH SHARMA, M.S., Agra University, 1960
ALLEN GLEN SMITH, B.S., M.S., 1943, 1966

In Agricultural Engineering

- WILLIAM EDWARD LARSEN, B.Sc.Agr.Eng., University of Nebraska, 1950; M.M.E., University of Delaware, 1957
RAM AYTAR RASTOGI, M.Tech., Indian Institute of Technology (Kharagpur), 1963

In Agronomy

- MICHEL CESCAS, B.Sc., Laval University (Canada), 1960; M.S., 1965
PAUL EUGENE CURTIS, B.S., M.S., 1956, 1965
STEPHEN WILLIAM DUMFORD, B.Sc.Agr., M.Sc., Ohio State University, 1963, 1965
GARY LEE EILRICH, B.S., M.S., Kansas State University, 1962, 1964
DALIP SINGH MALIK, B.Sc.Ag.(Hons.), University of Delhi, 1952; M.Sc., Vikram University, 1959; M.S., 1962
KENNETH NELS PAULSON, B.S., University of California (Davis), 1964; M.S., 1966

In Animal Science

- MULCHAND SHAMBHUBHAI PATEL, M.Sc., Maharaja Sayajirao University of Baroda, 1964

In Astronomy

- JOSEPH WILLIAM ERKES, B.S., St. Joseph's College (Pennsylvania), 1963; M.S., 1965

In Biology

- DONALD ROBERT MILLS, A.B., M.A., Indiana University, 1962, 1964

In Biophysics

- THEODORE BERNARD HOEKMAN, A.B., Hope College, 1962
DONALD DEXTER JOB, B.A., Linfield College, 1964

In Botany

- ROBERT LLOYD ARTEMAN, B.S., Illinois State University, 1961; M.S., 1964
BURTON MARTIN BERKSON, B.S., Roosevelt University, 1962; M.S., Eastern Illinois University, 1964
GERARD MICHAEL COURTIN, B.Sc., University of New Brunswick, 1962; M.S., 1968
RICHARD HARRY JAGELS, B.S., M.S., Syracuse University, 1962, 1965
RICHARD TATSUO KURAMOTO, B.A., University of Hawaii, 1963; M.S., University of British Columbia, 1965

MICHAEL DEAN MORGAN, A.B., Butler University, 1963; M.S., 1965
ROBERT EMANUEL REDMANN, B.A., University of North Dakota, 1964; M.S., 1966
BENTON MAURICE STIDD, B.S.A., Purdue University, 1958; M.S., Kansas State Teachers College, 1963

In Business

CAMERON CARLEY, B.S., 1951; M.B.A., Northwestern University, 1954

In Ceramic Engineering

DAVID HOWARD STURGIS, B.S., M.S., 1961, 1966
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In Chemical Engineering

LESLIE MITCHELL BLAIR, B.S., Pennsylvania State University, 1964; M.S., 1966
GEORGE DENNIS LEHMKUHL, B.S., University of Minnesota, 1963; M.S., 1966
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In Chemistry

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EDWARD ROBERT BIRNBAUM, B.S., Brooklyn College, 1964; M.S., 1966
WILLIAM SEELY BRADSHAW, A.B., Harvard College, 1963
JOSEPH HARRIS CARNEY, B.A., Vanderbilt University, 1963; M.S., 1965
MARVIN DUAIN COON, B.S., San Jose State College, 1963; M.S., 1966
RICHARD JAMES DOUTHART, B.S., Little Rock University, 1961
RONALD JOHN FITZGERALD, B.Chem., University of Minnesota, 1964
JOHN HERBERT FORSBERG, B.A., University of Minnesota (Duluth), 1964; M.S., 1966
LINDA CLINE GAHAN, B.S., Bucknell University, 1964; M.S., 1966
DAVID MARTIN GASS, A.B., Harvard College, 1963
DAVID JAMES WONG GOON, B.Chem., University of Minnesota, 1964; M.S., 1966
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JAMES CLIFTON HILL, A.B., Occidental College, 1964
MARWIN KING KEMP, B.S., University of Arkansas, 1964; M.S., 1965
JOSEPH LAWRENCE KIRSCH, JR., B.S., Butler University, 1964; M.S., 1966
JEREMY ANDREW KLAINER, S.B., Massachusetts Institute of Technology, 1963; M.B.A., 1967
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RICHARD ALLEN LARSON, B.A., University of Minnesota, 1963
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 ROGER MANSFIELD SWANSON, B.A., North Central College, 1963; A.M., 1964
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In Finance

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- MICHAEL FLOYD CAMPBELL, B.S., M.S., 1964, 1966
 ANTHONY JOSEPH CUTALA, B.S., M.S., 1961, 1964
 CARL YOU WONG, B.A., University of Washington, 1960

In French

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 LOUISA ETHELWYN JONES, B.A., Dalhousie University, 1963; M.A., University of Alberta, 1966

In Geography

- JAY REGINALD HARMAN, B.S., M.S., Illinois State University, 1963, 1964
 RONALD ALLAN LARSON, A.B., Ohio University, 1960; A.M., 1962

In Geology

- JOHN CORBETT HORNE, A.B., Brown University, 1963; M.S., 1965

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- HEINZ JOACHIM DILL, B.A., M.A., University of British Columbia, 1961, 1963
 PETER KLAUS JANSEN, A.M., 1958

In History

- FRANK ALAN COOMBS, A.B., University of Kansas, 1960; A.M., 1964
 CHARLES LOUIS DE BENEDETTI, B.S., Loyola University (Illinois), 1964; A.M., 1965
 PHILLIP SHAW PALUDAN, A.B., M.A., Occidental College, 1960, 1963
 WILLIAM EUGENE PULLIAM, B.S., University of Kansas, 1955; A.M., 1965
 ARMSTRONG MARION STARKEY III, B.A., Hiram College, 1960; A.M., 1962
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In Linguistics

- SEIICHI MAKINO, B.A., M.A., Waseda University, 1958, 1960; B.A., M.A., University of Tokyo, 1962, 1964

In Marketing

- HERBERT LOCKHART LYON, B.B.A., Memphis State University, 1960; M.S., 1966

In Mathematics

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BURGESS JAMES DAVIS, B.Sc., Ohio State University, 1965; M.S., 1966
 JAMES DELBERT DAVIS, B.A., New York University, 1961; A.M., 1965
 MICHAEL BARRY DOLLINGER, A.B., University of Rochester, 1963; M.S., 1965
 JOE WAYNE FISHER, B.S., Kearney State College, 1964; M.S., 1965
 MARVIN CHARLES GAER, B.S., M.S., University of Wisconsin, 1957, 1962
 JOE WILEY JENKINS, B.S., Kansas State College of Pittsburg, 1963; M.S., 1965
 ROBERT EDWARD LEWIS, B.S., M.S., Michigan State University, 1961, 1963
 MARJORIE ANN MORETZ, B.S., M.S., 1961, 1963
 RAMAN NARAYANA PILLAI, M.S., University of Kerala (India), 1956
 WILLIAM THEODORE STOUT, JR., B.S., Southwest Missouri State College, 1961; M.S., 1963
 ELLEN MCCORMICK TORRANCE, A.B., Barnard College, 1962; M.S., Stanford University, 1963

In Mechanical Engineering

ROBERT ARTHUR MEDROW, B.S., M.S., 1959, 1961

In Metallurgical Engineering

HUA-CHING TONG, B.S., National Taiwan University, 1958; M.Sc., National Tsing Hua University, 1962

In Microbiology

ANTHONY CATENA, A.B., Rutgers, The State University, 1963

GARY SAMUEL DAVID, B.S., 1964

KUEI-HUANG HUANG, B.Sc., National Taiwan University, 1963; M.A., Boston University, 1965

In Nuclear Engineering

HASSAN ABDEL HALIM HASSAN, B.E.E., Cairo University, 1957; M.S., 1961

NICHOLAS TSOLFANIDIS, Dipl., Athens National University, 1960; M.S., 1965

In Physical Education

BRYAN EDWARD MARSHALL COOKE, B.A., Aligarh Muslim University, 1959; M.S., 1965

BRUCE RICHARD CURTIS, B.S., Central Michigan University, 1962; M.A., Michigan State University, 1963

RAINER MARTENS, B.S.Ed., Kansas State Teachers College, 1964; M.S.H. and P.E., University of Montana, 1965

IAN MOUNT NEWMAN, B.S., M.S., George Williams College, 1963, 1964

DONALD PETER VAN ROSSEN, B.S., Ed.M., 1953, 1954

JACK FRANKLIN WILEY, B.S., Southern Illinois University, 1960; M.A., Sacramento State College, 1964

In Physics

JERRY ALAN BLODGETT, B.S., University of Wisconsin, 1960; M.S., Harvard University, 1964

JOHN JOSEPH BOGUTA, A.B., Johns Hopkins University, 1962; M.S., 1964

CHEUK-KIN CHAU, B.A., MacMurray College, 1962; M.S., 1963

JOEL ALAN COHEN, A.B., Harvard University, 1962; M.S., 1964

ROBERT WILLIAM HOSKEN, B.E.E., Polytechnic Institute of Brooklyn, 1961; M.S., 1963

ALLAN EDWARD JACOBS, B.A.Sc., University of Toronto, 1960; M.Sc., University of Waterloo, 1962

WILLIS MOCK, JR., B.S., North Carolina State University at Raleigh, 1961; M.S., University of Florida, 1963

GLENN ELLIS MOORE, JR., B.S., M.S., 1963, 1965

RALPH LEWIS ROSENBAUM, B.S.E.E., Purdue University, 1962; S.M., Massachusetts Institute of Technology, 1964

WILLIAM FREDERICK SAAM, B.S., California Institute of Technology, 1963; M.S., 1965

CHARLES GUSTAVE STENBERG, B.S., M.S., 1959, 1960

In Physiology

BECKY BEARD JOHNSON, B.S., Oklahoma State University, 1964; M.S., 1966

RONALD GENE LA GRANGE, A.B., Southern Methodist University, 1962; M.S., 1965

BRENT COLE SEAGER, B.S., Michigan State University, 1958; M.S., 1962

In Plant Pathology

- GEOFFREY RONALD HUGHES, B.Sc.Agr., University of Sydney, 1959; M.S., 1967
 DONALD HOWARD SCOTT, B.S., Purdue University, 1956; M.S., 1964
 RAM KEWAL TRIPATHI, B.Sc.(Hons.)Ag. and A.H., Agricultural University
 (India), 1963; M.S., 1966

In Political Science

- FRED STOKES COOMBS, B.S., University of Kansas, 1955; A.M., Stanford University, 1959
 JOSEPH FRANCIS KRAUTER, A.B., A.M., University of Missouri, 1962, 1963

In Psychology

- MILTON RAY BLOOD, B.S., Indiana State University, 1960; B.A., Centre College of Kentucky, 1964; A.M., 1966
 ARTHUR RICHARD CARLSON, A.B., Clark University, 1961
 MARTIN MYRON CHEMERS, B.S., A.M., 1964, 1966
 ANTHONY JOSEPH CONGER, B.A., Trenton State College, 1962
 JUDITH COHEN CONGER, B.A., Trenton State College, 1963
 RONALD MICHAEL DOCTOR, A.B., University of Southern California, 1960; A.M., 1964
 DAVID LEWIS HAMILTON, A.B., Gettysburg College, 1963; M.A., University of Richmond, 1965
 ROY CARTER HOSTETTER, A.B., San Jose State College, 1961; A.M., 1965
 KALMAN JOEL KAPLAN, A.B., Northwestern University, 1963; A.M., 1966
 JOHN WILLIAM KENNY, A.B., John Carroll University, 1961; A.M., 1966
 RAYMOND FREDERICK KOOPMAN, JR., A.B., 1961
 LARRY SCOTT MCKAUGHAN, B.A., Whitworth College, 1963; A.M., 1965
 MERRILL DAVID PALETZ, A.B., University of Pennsylvania, 1961
 MARCIA STRONG SCOTT, B.A., University of Connecticut, 1963; M.A., George Peabody College for Teachers, 1967
 CHARLES WARREN STOCKWELL, B.A., Western Washington State College, 1964; A.M., 1966
 JANET PUCCINELLI WOLLERSHEIM, A.B., Gonzaga University, 1958; A.M., St. Louis University, 1960

In Sociology

- RAGWINDER KAUR DHINDSA, M.A., Agra University, 1958; M.S., M.Ed., Montana State College, 1963, 1963
 EMIL OESTEREICHER, A.B., A.M., 1960, 1963

In Spanish

- CONSTANCE ANN SULLIVAN, A.B., University of Rochester, 1960; A.M., 1962

In Speech

- RONALD GENE ENGLE, B.A., University of Montana, 1963; M.A., University of Arizona, 1965
 LESLIE BROOKS HILL, B.A., Memphis State University, 1964; M.A., University of Alabama, 1965
 TICE LEWIS MILLER, A.B., Kearney State College, 1960; M.A., University of Nebraska, 1961
 JOHN FAXON OTIS, JR., A.B., Denison University, 1960; A.M., Central Missouri State College, 1961
 LISBETH JANE ROMAN, A.B., College of Wooster, 1964; A.M., 1965
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 BELA IMRE SANDOR, B.S., 1961; M.S., New York University, 1963
 FREDERICK ADAIR SMITH, JR., B.S., United States Military Academy, 1944;
 M.S.Eng., Johns Hopkins University, 1949; M.B.A., George Washington University, 1963
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In Veterinary Medical Science

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In the Teaching of English

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Degree of Master of Science*In Advertising*

STEVEN MICHAEL JAREO, B.S., 1967
JOHN DOUGLAS LECKENBY, B.S., Ferris State College, 1967
EMMANUEL SAYSON SISON, Litt.B., University of Santo Tomas, 1963
SPENCER FELTON TINKHAM, B.S., University of North Carolina, 1966

In Aeronautical and Astronautical Engineering

JOSEPH WILLIAM FLAIG, Jr., B.S., 1967

In Agricultural Economics

ERMAN EDWARD SCHAIRER, B.S., 1964

In Agricultural Engineering

JAIPAL SINGH PANWAR, B.Sc.Agr.Eng. and Tech., Uttar Pradesh Agricultural University, 1966
KASHMIR SINGH VIRK, B.Sc.Agr.Eng. and Tech., Uttar Pradesh Agricultural University, 1966
LELAND PAUL WOLKEN, B.S., 1967

In Agronomy

WAYNE CURTIS CARLSON, B.S., 1967

In Animal Science

AHMAD MUSTANSIR BILLAH, B.Sc., University of Panjab, 1964; M.Sc., Pakistan Agricultural University, 1966
DANIEL MARIE MATHIEU, Ing.Agr., Institut National Agronomique, 1965

In Architectural Engineering

PETER GINTAUTAS NALIS, B.Arch., 1967

In Biology

GARY WILLIAM MILLER, B.S., 1967
MARY ELIZABETH TANK, B.S., Augustana College, 1965

In Ceramic Engineering

DENNIS LEE MOOL, B.S., 1968
WILLIAM JAMES MUHLSTADT, B.S., 1962

In Chemical Engineering

VICTOR CHRISTIAN BASTRON, B.S., University of Oklahoma, 1966
JAMES FIELDER BEALL, B.S., California Institute of Technology, 1967
DONALD CHARLES FISHER, B.S., Michigan State University, 1966
DANE CLARK GRENOBLE, B.S., Pennsylvania State University, 1966
STEVEN PAUL SAWIN, B.S., Iowa State University, 1966

RAVI KUMAR SINGHANIA, B.Sc., Agra University, 1963; B.Tech.(Hons.), Indian Institute of Technology, 1967
ROBERT BRUCE SNYDER, B.S., University of Washington, 1966

In Civil Engineering

CHARLES H. DOWDING III, B.S., University of Colorado, 1967
DONALD WILLIAM FERGUSON, B.S., 1967
ARTHUR PAUL FROEMMING, B.C.E., Marquette University, 1951
ELIOT RUSSELL JOHNSON, B.S., South Dakota School of Mines and Technology, 1967

In Dairy Science

HERBERT FRANCIS BUCHOLTZ, B.S.A., University of Georgia, 1965
MING HUNG CHEN, B.Ed., Taiwan Normal University, 1965
LARRY ARTHUR KRAFT, B.S., Wisconsin State University, 1964
OSCAR CLARK MILLER, JR., B.S., 1966

In Education

MARIANNE ROUSE, B.A., Gallaudet College, 1967

In Electrical Engineering

MOHAMMED JALIL AL-HAKKAK, B.Sc., University of Baghdad, 1963
EDWARD JAMES BEACH, B.S., 1967
THOMAS GEORGE BEZDEK, B.E.E., Marquette University, 1965
JAMES VREELAND BODYCOMB, B.S., University of Maryland, 1967
JAI HARI DALMIA, B.E.E., Jadavpur University, 1966
BRUCE GENE DELUGISH, B.S., 1965
DIPAK GUHA, B.A., M.Sc., University of Calcutta, 1951, 1955
GARRY DUANE KEULEY, B.S., 1967
ANDREW PHILIP KISYLIA, B.S., University of Notre Dame, 1967
ROBERT TIEN-HUNG KU, B.S., 1967
LESTER MARTIN LENDRUM, B.S., 1964
GEORGE PANAGIOTIS MANTAS, B.S., 1967
ANTONIO ROBERTO PANICALI, Engenheiro de Electrónica, Instituto Tecnológico de Aeronautica (Brazil), 1964
WILLIAM ELLIS RODGERS, B.S., University of Notre Dame, 1967
ROBERT ARTHUR SAINATI, B.S., 1968
JAMES ROBERT VAN CLEAVE, B.S., 1963
WILLARD FRANCIS WHITAKER III, B.S., Iowa State University, 1967

In Finance

ELMER GEORGE DICKSON, B.S., 1967
JOHN DAVID MARKESE, B.S., 1967

In Food Science

DAVID GORDON ROE, B.S., 1966
FENG-JOU WANG, B.S., National Taiwan University, 1964

In Forestry

DONALD LEE ROCKWOOD, B.S., 1966

In Geology

JOSEPH RAY HATCH, B.S., Idaho State University, 1966

In Health Education

LINDA RAE LADNER, B.S., City University of New York, 1967
GLORIA JEAN NETHERS, B.S., George Washington University, 1962
CAROLE HUTCHESON SCHMIDT, B.S., 1967
GEOFFREY ALAN SEID, B.S., Brooklyn College, 1967

In Journalism

JOSEPH MORRIS WEBB, A.B., Lincoln Christian College, 1964

In Marketing

DAVID JEROME FRITZSCHE, B.S., 1965

JOHN ROBERT NEVIN, B.S., Southern Illinois University, 1965

In Mathematics

CARMEN YVONNE BALDWIN, B.A., Greenville College, 1967

In Mechanical Engineering

BOHDAN STEVEN DACKO, B.S., 1967

In Metallurgical Engineering

RICHARD ARNOLD BRAND, B.S., 1965

DAVID DEVOE THORNBURG, B.S., Northwestern University, 1967

In Music Education

RICHARD ALLEN KUSK, B.M.E., Illinois Wesleyan University, 1965

ALBERT LEE MOORE, B.Mus.Ed., Texas Technological College, 1966

In Nuclear Engineering

ROGER DEAN ROLLINS, B.S., South Dakota School of Mines and Technology, 1967

In Physical Education

TIMOTHY TYLER CRAIG, B.A., University of Windsor, 1963; B.P.E., MacMaster University, 1964

ROBERT CLIFFORD DONOHO, B.S., 1963

HAROLD ZACHARY HOLMES, JR., B.S., 1964

KATHERINE KRYSTINA KANGAS, B.A., University of Western Ontario, 1967

GAIL ELOISE MAYFIELD, B.S., Trinity University, 1967

JERRY LAWRENCE MAYHEW, B.S., Appalachian State University, 1967

JACQUES JOSEPH-HENRI-JEAN SAMSON, B.Ed.P., University of Ottawa, 1967

MAETEL CAMBIE WILLIAMS, Dipl.(P.E.), University of Otago, 1964

In Plant Pathology

ALAN GLENN OTTERBACHER, B.S., 1965

In Recreation

RICHARD JOHN GOOD, B.S.Ed., State University of New York (Cortland), 1967

WILLIAM CHRISTIAN WALTERS, B.S., 1964

In Speech Correction

VALERIE ZUPPARDI, A.B., Hunter College, 1967

In Theoretical and Applied Mechanics

ALAN ROLAND NELSON, B.S., 1967

JAMES GRANT WILSON, B.S., University of Arizona, 1967

In Veterinary Medical Science

ARNOLD RAY SMITH, B.S., D.V.M., 1961, 1963

In Zoology

ALVIN ZENJI KATEKARU, B.A., University of Hawaii, 1966

Degree of Master of Music

SHERRY JUDITH BRAUDE, B.S., Ithaca College, 1966

WILLIAM STEWART PARSONS, B.Mus., 1964

CHARLES REX ROGERS, B.Mus., University of Kansas, 1962

Degree of Master of Education

ELEANOR ISKE CHANCE, B.S., Manchester College, 1963

WILSON DWYER, A.B., J.D., 1939, 1941

HEATHER DEENA GREENFIELD, B.S., University of Wisconsin, 1964
 PHILOMENA MARIE GRIECO, A.B., Rosemont College, 1962
 ELIZABETH ANNE HOSKA JONES, B.S., Longwood College, 1963
 DOROTHY PEARL AUSTIN LOCKE, B.S., Illinois State University, 1965
 GABINA TOYHACAO QUITON, B.S., University of the Philippines, 1966
 CAROL FAE RA, B.S., Indiana State College, 1961
 MARY LYNN SHOUF, B.S., Illinois Wesleyan University, 1962
 BARBARA NUDO VANLANDINGHAM, B.S., Southern Illinois University, 1963
 RUTH REBECCA WAX, A.B., Barnard College, 1966

Degree of Master of Television

JOHN AUBREY BROCKWAY, B.Mus.Ed., Millikin University, 1965

Degree of Master of Accounting Science

DONALD GENE OVERTON, B.S., Eastern Illinois University, 1963

Degree of Master of Comparative Law

SHOU-PO CHAO, B.Law, Central Police College (Taiwan), 1963
 DANIELE DELCOUR KELL, Dipl. C.U.E.C.E., D.E.S., University of Paris, 1966, 1967

Degree of Master of Urban Planning

MICHAEL ANTHONY CARROLL, A.B., Indiana University, 1964

Advanced Certificate

In Education

DAVID ELLSWORTH SPRENKLE, B.S., Washington University, 1958; Ed.M., 1963
 MARY KATHRYN WATTS, B.S., Ed.M., 1951, 1958

COLLEGE OF AGRICULTURE

Degree of Bachelor of Science

In Agriculture

ALEXANDER BEKKER
 JAMES DOUGLAS BRIDGE

MICHAEL STEPHEN GUINNANE

In Home Economics

DEANNA MARY KLEIN
 ANNE MEFFLEY KONTOS

SUE ANN EVANS OETJEN

COLLEGE OF ENGINEERING

Degree of Bachelor of Science

In Civil Engineering

PAUL ANDERSON BRAY II

In Electrical Engineering

CHRIS STEVE POLENAS

In Metallurgical Engineering

PETER JACOB KUCHIRKA, High Honors

COLLEGE OF LIBERAL ARTS AND SCIENCES

Degree of Bachelor of Arts

In Liberal Arts and Sciences

HAROLD LeROY BARNES
 GENE RUSSELL DAVIS
 JAMES EDWARD HAWKING, High Honors
 in Liberal Arts and Sciences with
 High Distinction in English

JANE ANN JEGERSKI
 CAMILLE JOHNSON
 KESTUTIS PETER KEMEZYS
 ALEXIS RAY KENNEDY
 RICHARD ALBERT KNOX

ROBERT EMMETT LEE
 DONNA DRAPER LEFRERE, Honors in
 Liberal Arts and Sciences
 ELIZABETH ANN MALEN
 ROBERT EARL MITCHELL
 GALE FARTHING OKEY

VALERIE ZIMMERMAN PAULEY
 MARCIA MULDER PAVLOU, High Honors
 in Liberal Arts and Sciences
 JOHN STANLEY SADA
 PAUL TANNENBAUM

In the Teaching of English

LINDA DAGNY ERNST

Degree of Bachelor of Science

In Chemical Engineering

TED ALAN KLEINHENZ, High Honors in
 Liberal Arts and Sciences with
 High Distinction in the Curriculum

In Liberal Arts and Sciences

MERRILL EUGENE EASTMAN
 EVAN PAUL ROLEK
 BONNIE CAROL RUBEN

DIANE MARLA WEINER, High Honors
 in Liberal Arts and Sciences

COLLEGE OF LAW

Degree of Juris Doctor

ROBERT COURTNEY NICHOLS, B.A.,
 Lawrence University, 1965

NEIL ROBERT ZABOROWSKI, B.S., North-
 ern Illinois University, 1965

COLLEGE OF EDUCATION

Degree of Bachelor of Science

In Elementary Education

FERN WOLKE BLOOM

JUNE MARTIN LLEWELLYN

In Industrial Education

RONALD CARL EHRENHOFFER

In Secondary Education

ANTHONY ROBERT SACCOMANO

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

Degree of Bachelor of Science

In Accountancy

JACK CARY BOROK
 TERRENCE MILTON BROWN
 WILLIAM ALLEN CHAPMAN

GARY LYLE DYCUS
 MORTON STEWART KESSEL

In Commercial Teaching

KAREN KATILIUS WALLACE

In Finance

ALAN SHELDON LEVIN

In Industrial Administration

WALTER FRANCIS WITKOWSKI

In Marketing

LAURENCE STUART SPECTOR

COLLEGE OF FINE AND APPLIED ARTS

Degree of Bachelor of Architecture

FRANK ALLEN ZITOMERSKY

Degree of Bachelor of Fine Arts*In Graphic Design*

EDWARD MORRIS GANG

In Painting

KAREN SUE SITRON

COLLEGE OF PHYSICAL EDUCATION**Degree of Bachelor of Science***In Physical Education*

JOHN WILLIAM DAVIS

STANTON FRANCIS STITZEL

DAVID LAWRENCE RUSSELL, High
Honors

DAVID GENE TOMASULA

COLLEGE OF VETERINARY MEDICINE**Degree of Bachelor of Science***In Veterinary Medicine*

JAMES DANIEL MCKEAN

SECRETARY'S REPORT

The Secretary presented for record appointments to the faculty made by the President; resignations, declinations, cancellations, leaves of absence, and retirements. A copy of the report is filed with the Secretary.

ANNOUNCEMENTS FROM THE PRESIDENT OF THE BOARD**FUTURE BOARD MEETINGS**

President Swain reminded the Trustees that the next three meetings of the Board will be held on November 22, 1968, in Urbana, on December 18, 1968, at Chicago Circle, and on January 15, 1969, in Urbana.

RECESS

On motion of Mr. Grimes, the regular meeting was recessed and the President of the Board stated that a meeting of the Committee on Buildings and Grounds had been called and that an executive session had been requested and was being ordered to consider recommendations relating to patentable discoveries and pending litigation.

EXECUTIVE SESSION

When the Board reconvened, the same members of the Board, officers of the Board, and officers of the University as recorded at the beginning of these minutes were present.

The Board considered the following recommendation from the President of the University.

RECOMMENDATIONS OF THE UNIVERSITY PATENT COMMITTEE

(26) The University Patent Committee, with the concurrence of the Chairman of the University Research Board, submits the following reports and recommendations relating to patentable inventions by members of the staff.

1. Process for improving the adhesion of vacuum evaporated gold thin films on glass or on polycrystalline oxide surfaces — Gary G. Paulson, formerly National Science Foundation Faculty Fellow in Ceramic Engineering, Urbana, and Arthur L. Friedberg, Professor of Ceramic Engineering, Urbana, inventors. The invention comprises a process whereby a marked improvement can be realized in the adhesion of vacuum vapor deposited pure gold thin films on polycrystalline oxide surfaces or substrates and, likewise, on glass surfaces. "Glass" is taken

to mean a substance of glassy oxide material usually a siliceous material with a uniform smooth surface. The thin films are generated through the thermal evaporation of gold from an electrical resistance-heated evaporation source onto the substrate material. The thickness of the films in this process may be controlled between limits to 300 A.U. to 5,000 A.U. The substrate temperature may be varied and controlled within limits of 90°F. to 500°F.

The Committee recommends that the rights of the University in this invention be assigned to the University of Illinois Foundation for study and possible patent application.

2. Helium-neon laser for low voltage operation—J. E. Herceg, formerly Assistant in Nuclear Engineering, Urbana, and G. H. Miley, Professor of Nuclear and Electrical Engineering, Urbana, inventors. A low-voltage arc discharge in He-Ne has been shown to form a suitable plasma for lasing on the 3.39 line. This type of discharge uses a large area thermionic cathode. Thus, it may be suited for directly coupling a laser with a heat source, e.g., a nuclear reactor, where large areas are required for efficient heat transfer. While the electrical cathode heating used in the experiments might be replaced by nuclear heating, a power supply would still be needed to provide the cathode-anode bias. However, some gases (e.g., cesium vapor), when operated in the low-voltage arc mode, require only a small bias which can be supplied by a work function difference between the electrodes as is done in the conventional thermionic diode. If this type of discharge can induce a population inversion in these gases, one might simultaneously extract laser power and electrical power from a nuclear reactor or similar heat source with no electrical input.

The Committee recommends that the rights of the University in this invention be assigned to the University of Illinois Foundation for study and possible patent application.

3. Controlled freezing desalination—B. T. Chao, Professor of Mechanical and Industrial Engineering, Urbana, and E. F. Janzow, Graduate Student in Nuclear Engineering, Urbana, inventors. A major handicap of the current freezing desalination process is associated with the difficulty of achieving a clear-cut separation of ice from the ice-brine slurry formed in the freezer. This invention offers the possibility of avoiding the difficulty. This relates to a new concept of saline water conversion by controlled freezing at the exterior surface of chilled pellets traversing in brine, initially downward and then upward. The reversal in pellet motion is brought forth automatically by the reduction in apparent density as the ice layer formed over its external surface grows. Sealed in the pellet is a substance which is initially frozen solid and gradually transforms to the liquid state as heat is transferred into it. A salient feature is that the entire process is dominated by latent heat transport. The pellets serve both as artificial nucleation sites and as carriers of ice. A conceptual design of a desalination plant based on the proposed scheme is described and analyzed for two different operating conditions. The result clearly demonstrates its potential in achieving economic desalination of sea water.

The Committee recommends that the rights of the University in this invention be assigned to the University of Illinois Foundation for study and possible patent application.

4. Nonambiguous measurement of large phase angles—Edward W. Ernst, Professor of Electrical Engineering, Urbana, inventor; developed under the sponsorship of the United States Army Electronics Command. The experimental results showed that the output of the phase measuring device varied in a monotonic linear fashion with a linear change of phase over a total range of 720°.

The Committee recommends that the rights of the University be assigned to the inventor, subject to the rights of the sponsoring agency, and that if the inventor does not apply for a patent, the rights be assigned to the United States Army Electronics Command.

5. Piezo-electric Bimorph system for the deflection of light beams—Paul Handler, Professor of Physics and of Electrical Engineering, Urbana, inventor; developed under the sponsorship of the Advanced Research Projects Agency. The devices represent a novel method for the deflection of light beams for the purpose of scanning of objects, the projection of TV images on screens, and as a raster for converting light images into electrical signals. The devices consist of

an arrangement of piezo-electric Bimorph benders or twistors which are driven in such a way as to produce a raster. These devices may be utilized with ordinary light sources or, preferably, with lasers.

The Committee recommends that the rights of the University be assigned to the inventor, subject to the rights of the sponsoring agency, and that if the inventor does not apply for a patent, the rights be assigned to the Advanced Research Projects Agency.

6. Random pulse sequence representation — Chushin Afuso, Assistant Professor of Electrical Engineering at Washington University, St. Louis, formerly Research Assistant in the Digital Computer Laboratory, Urbana, and W. J. Poppelbaum, Professor of Electrical Engineering and of Computer Science, Urbana, inventors; developed under the sponsorship of the Office of Naval Research. This system proposes a method of variable representation in which the variable value is carried as the probability of appearance of pulses in given time slots. If such synchronous random pulse sequences are used, multiplication corresponds simply to using an AND circuit to combine the respective sequences. It turns out that the operations of addition, subtraction, and division can also be considerably simplified by this variable representation and that it becomes in general possible to process analog information thus encoded by purely digital circuitry.

The Committee recommends that the rights of the University in this invention be released to the sponsoring agency.

7. Phastor — W. J. Poppelbaum, Professor of Electrical Engineering and of Computer Science, Urbana, and David Aspinall, formerly Visiting Associate Professor of Computer Science, Urbana, inventors; developed under the sponsorship of the Office of Naval Research. This invention solves the problem of storage of analog quantities for long periods of time by quantizing the analog voltages into a great number of steps (typically 100) and storing the quantized version as the phase difference between a free running multivibrator, synchronized by a central clock, and a standard multivibrator used for reference purposes. The advantage of this system is that only three transistors are necessary for a storage cell.

The Committee recommends that the rights of the University in this invention be released to the sponsoring agency.

8. Potentiomatrix — W. J. Poppelbaum, Professor of Electrical Engineering and of Computer Science, Urbana, inventor; developed under the sponsorship of the Office of Naval Research. This is a display device necessitating only a restricted information input for the display of complicated curves. This is obtained by building a solid state analog of an electrolytic trough. This takes the form of a grid-work of resistors with imposed boundary conditions for a subset of nodes. In particular, two sets of nodes are put at ground level and a voltage V respectively. All nodes are connected to a bus via a sensor which lights up a little bulb when no potential difference is present. The voltage of the bus is then stepped from ground to V and a succession of equipotential lines becomes visible. Since many complicated curves are equipotential lines of simple boundary conditions, it suffices to transmit to the display system these simple boundary conditions.

The Committee recommends that the rights of the University in this invention be released to the sponsoring agency.

9. Sod and stubble planter — Donnie R. Morris, Farm Mechanic, Dixon Springs, and George E. McKibben, Associate Professor of Agronomy, Dixon Springs, inventors. Packer cutter wheel gives more uniform depth control on both sod and conventional seedbeds due to its close proximity to planter shoe and due to its smaller diameter than the conventional packer wheel.

The Committee recommends that the rights of the University in this invention be assigned to the inventors.

10. Control system for off-highway vehicles — William Edward Larsen, formerly Research Associate in Agricultural Engineering, Urbana, inventor. A vehicle design concept and a control system to improve off-highway vehicle productivity by removing any restrictions on the vehicle's size and shape and by increasing vehicle maneuverability. Vehicle design utilizes hydrostatic power-wheels and a control system which controls the angle and the speed of each wheel. The resulting system places no limits on the vehicle's size and shape or on the number of wheels and their position on the vehicle. The unique feature of this

design concept is the technique used to combine the coordinates that define wheel position with the coordinates that define the vehicle motion wanted by the operator.

The Committee recommends that the rights of the University in this invention be assigned to the inventor.

11. Utilization of lead scandium niobate-lead titanate solid solutions as piezoelectric ceramic elements—Victor J. Tennery, formerly Professor of Ceramic Engineering, Urbana, Kenneth W. Hang, Assistant in Ceramic Engineering, Urbana, and Richard E. Novak, Research Assistant in Ceramic Engineering, Urbana, inventors; developed under the sponsorship of the Advanced Research Projects Agency. The unique feature of this invention is the realization of higher piezoelectric coupling coefficients than those in barium titanate modified systems and as high as those in the system lead zirconate-lead titanate. This system has previously contained the most active ceramic piezoelectric materials known.

The Committee recommends that the rights of the University in this invention be assigned to the University of Illinois Foundation for study and possible patent application, subject to the rights of the sponsoring agency.

12. Total consumption burner for premixed acetylene-nitrous oxide flames—Victor G. Mossotti, Senior Research Chemist, Urbana, inventor; developed under the sponsorship of the Advanced Research Projects Agency. This device is useful as a light source for the direct detection of dissolved metallic impurities in liquid analytical samples. The burner, a composite of commercially available components, is fed with a fuel-oxidant system having special combustion properties and flame chemistry, and is operated in a unique way so as to provide advantages for emission spectroscopy heretofore unreported in a single burner system.

The Committee recommends that the rights of the University in this invention be assigned to the University of Illinois Foundation for study and possible patent application, subject to the rights of the sponsoring agency.

On motion of Mr. Clement, these recommendations were approved.

On motion of Mr. Grimes, the Board adjourned.

EARL W. PORTER
Secretary

TIMOTHY W. SWAIN
President

LUNCHEON GUESTS

Representatives of the faculty and students of the College of Pharmacy at the Medical Center and representatives from the College of Pharmacy Advisory Committee, the Chicago Pharmacists' Association, Illinois Council of Hospital Pharmacists, Illinois Pharmaceutical Association, Chicago Retail Druggists' Association, Illinois State Board of Pharmacy were guests of the Board at luncheon.