

MEETING OF THE BOARD OF TRUSTEES
OF THE
UNIVERSITY OF ILLINOIS

February 23, 1953



The February meeting of the Board of Trustees of the University of Illinois was held in the Faculty-Alumni Lounge of the Illini Union Building at Urbana, Illinois, on Monday, February 23, 1953, beginning at 10:30 a.m.

When the Board convened, the following members were present: Mr. Wirt Herrick, Mr. Robert Z. Hickman, Mr. Wayne A. Johnston, Mr. Park Livingston, and Mrs. Frances B. Watkins. Governor William G. Stratton, Mr. John R. Fornof, Mr. Harold E. Grange, Mrs. Doris S. Holt, and Mr. Herbert B. Megrar were absent. Superintendent Vernon L. Nickell was absent at the beginning of the meeting but joined it later.

Also present were President George D. Stoddard, Provost Coleman R. Griffith, Dean E. R. Serles, Chairman of the Administrative Committee of the Chicago Professional Colleges, Mr. Ralph F. Lesemann, Legal Counsel, Mr. J. F. Wright, Director of Public Relations, Mr. Lloyd Morey, Comptroller, Mr. C. W. Weldon, Treasurer, and Mr. A. J. Janata, Secretary of the Board.

A quorum being lacking, on motion of Mr. Johnston the Board recessed.

MEETING OF THE EXECUTIVE COMMITTEE

On call of the Chairman, and pursuant to formal notice, the Executive Committee of the Board of Trustees of the University of Illinois met in the Faculty-Alumni Lounge of the Illini Union Building at Urbana, Illinois, on Monday, February 23, 1953, beginning at 10:30 a.m.

Mr. Park Livingston, Chairman, and Mrs. Frances B. Watkins were present. Mr. Herbert B. Megran was absent. Also present were the other members and officers of the Board and officers of the University listed above.

BUSINESS PRESENTED BY THE PRESIDENT OF THE UNIVERSITY

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

AWARD OF CERTIFIED PUBLIC ACCOUNTANT CERTIFICATES

(1) The Committee on Accountancy recommends that the certificate of Certified Public Accountant be awarded to the following candidates who have qualified under Section 4b of the Accountancy Act of 1943, as amended in 1951, by passing a written examination given on November 12, 1952, by the Special Board of Examiners:

WILLIAM GEORGE CORWIN (Belleville)	HAROLD A. NIEBERGALL (Chicago)
ORVILLE B. DURHAM (Springfield)	BENJAMIN ELMER PATTON (Springfield)
SOLOMON NATHAN HARLAN (Chicago)	MORRIS WILLIAM RUBENSTEIN
JACOB HOWARD KATZ (Chicago)	(Chicago)

The Committee on Accountancy recommends that the certificate of Certified Public Accountant be awarded, under Section 5 of the Accountancy Act of 1943, 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>
ARTHUR WILLIAM BARRON, JR.	Joliet, Illinois	Wisconsin
HARRY RITZE FERRIS	Greenwich, Connecticut	New York
VICTOR JACQUEMIN, III	Glendale, Missouri	Missouri
WINSON JONES	Oak Park, Illinois	Indiana
DAVID M. KURANER	Chicago, Illinois	New York
JAMES HENRY McCAFFREY	Berkeley, Illinois	District of Columbia

I concur.

On motion of Mrs. Watkins, these certificates were awarded.

APPOINTMENTS TO THE FACULTY

(2) 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.

1. JULIUS HEYDEMANN, Assistant Professor of Radiology, College of Medicine, beginning January 1, 1953, at an annual salary of \$8,500 (GY85), until further notice but not later than August 31, 1953, as replacement for Dr. Roger Harvey in Radiology while Dr. Harvey serves as Acting Dean.

2. LEONARD R. KYLE, Assistant Professor of Agricultural Economics, Extension Service in Agriculture and Home Economics, beginning February 1, 1953, at an annual salary of \$6,000 (DY).

3. SHU-CHIN LEE, Assistant Professor of Hygiene and Medical Adviser for Women, Health Services, beginning September 1, 1953, at an annual salary of \$7,200 (DY).

4. MARY ELIZABETH MATHER, Associate Professor of Home Economics Education, College of Education, beginning September 1, 1953, at an annual salary of \$5,500 (B).

5. CALYAMPUDI RADHAKRISHNA RAO, Visiting Research Professor of Mathematical Statistics, Graduate College, beginning September 1, 1953, at an annual salary of \$8,000 (D).

6. CHARLES FLAGG WHITNEY, Assistant Professor of Radiology, College of Medicine, beginning January 12, 1953, at an annual salary of \$5,000 (DY50).

7. WILLIAM WOODRUFF, Associate Professor of Economics, beginning September 1, 1953, at an annual salary of \$7,000 (D).

On motion of Mrs. Watkins, these appointments were confirmed.

CANCELLATION OF LEAVE OF ABSENCE FOR PROFESSOR P. GERALD KRUGER

(3) Dr. P. Gerald Kruger, Research Professor of Physics, was granted sabbatical leave of absence for one-half year on full pay during 1952-1953, the period of the leave to be determined by the needs of the Department. It has not been feasible for the Department to release him and, therefore, I recommend that the leave be cancelled without prejudice.

On motion of Mrs. Watkins, this leave was cancelled without prejudice.

APPOINTMENT OF DEAN OF THE COLLEGE OF AGRICULTURE

(4) With the unanimous approval of the Executive Committee of the College of Agriculture, I recommend that Dr. Robert R Hudelson, who has been serving as Acting Dean and Acting Director since September 1, 1952, be appointed Dean of the College of Agriculture, Director of the Agricultural Experiment Station, Director of the Extension Service in Agriculture and Home Economics, and Professor of Agricultural Economics, effective March 1, 1953, and continuing to September 1, 1954, when he will retire from active service, and that his salary be increased to \$16,000 a year on a Y basis.

On motion of Mrs. Watkins, this appointment was approved.

BOARD RECONVENED

During the discussion of the following item of business Mr. Nickell took his place with the Board, whereupon the Executive Committee adjourned and the Board reconvened.

BIENNIAL OPERATING BUDGET FOR 1953-1955

(5) The biennial operating budget for 1953-1955 proposes an increase of \$3,850,000 in appropriations from state revenues to offset an impending decrease of a similar amount in receipts of the University Income Fund. One of the contributing items is the change in the G.I. Law, providing for payment of tuition only instead of "cost of instruction" as previously followed. This item represented a loss of \$1,250,000 in the coming biennium.

Since this budget was approved, a movement has developed, particularly among private institutions, to provide for payments directly to institutions, instead of to the veterans as at present, of amounts which would approximate the "cost of instruction" as previously allowed. I have indicated that the University of Illinois will support such a change, provided it is put on a "cost of instruction" basis and not merely on a tuition basis.

The upward trend of enrollment during the current year also makes possible an increase of \$250,000 in the estimated income from tuition of regular students during 1953-1955.

In view of these changes in the situation, I recommend that the sum requested from tax funds be reduced from \$3,850,000 to \$2,350,000 and that the estimated income from University sources in the University Income Fund be increased to \$14,500,000. The total of the budget remains the same.

In making this change it must be recognized that the realization of this \$1,250,000 is problematical and uncertain. The appropriation of this amount in the Income Fund is contingent on actual receipts, and if those receipts do not materialize, expenditures can not be made. Hence, that amount of the University's budget must be held in abeyance as far as internal allotments are concerned until it is certain that the income will be realized.

I recommend approval of this change.

Another change in the Income Fund has been proposed by Senator Everett R. Peters, Chairman of the Illinois Budgetary Commission, who stands ready to introduce a bill to this effect as soon as it can be prepared. This change would mean the retention in the Treasury of the University of all the income from auxiliary enterprises and revolving activities. This would reduce by \$7,700,000 the amount of the appropriation needed for the Income Fund for 1953-1955 and the total of the state budget for operations for that period. Such a change was proposed by the University and approved by the Board several years ago, but has not appeared to be possible until this time. It would be a desirable change.

On motion of Mrs. Watkins, this change in the biennial budget was approved by the following vote: Aye, Mr. Herrick, Mr. Hickman, Mr. Johnston, Mr. Livingston, Mr. Nickell, Mrs. Watkins; no, none; absent, Mr. Fornof, Mr. Grange, Mrs. Holt, Mr. Megran, Mr. Stratton.

SPECIAL APPROPRIATIONS FOR NONRECURRING EXPENDITURES

(6) The Committee on Nonrecurring Appropriations recommends assignments of funds from the General Reserve as follows:

Urbana-Champaign Campus

1. Department of Theoretical and Applied Mechanics, testing machine..\$ 6 450
2. Department of Astronomy, repair of observatory instruments..... 14 250
3. College of Agriculture, remodeling of quarters and equipment..... 90 000
- (Note: The funds will be assigned to nine departments of the College and for specific items of expenditure as itemized in the report of the Committee.)
4. Physical Plant Department
- Replacement of trucks and cars.....\$11 450
- Security fence for Abbott Power Plant area..... 4 200 15 650

Chicago Professional Colleges

5. Department of Pharmacology, improvement of lighting..... 1 000
6. Illustration Studio, rehabilitation of Miracle of Growth exhibit at the Museum of Science and Industry..... 3 000
- (130 350)

I concur.

I have also authorized the following assignments:

7. Department of Physiology, operating expenses for the balance of the current year, 1952-1953.....\$ 6 900
8. School of Physical Education, operation of the Experimental Sports Fitness Summer Day School..... 3 800
9. Professor Arthur J. McNair of Cornell University, compensation for damage to automobile..... 1 144
10. Office of Nonacademic Personnel, purchase of equipment..... 700
11. Physical Plant Department, acoustical treatment of Room 220 Library 2 700
- (15 244)
- Total\$145 594

Assignments for Items 7 to 9, inclusive, have been made from the General Reserve Fund and Items 10 and 11 have been assigned from Nonrecurring Equipment and Remodeling Unassigned.

On motion of Mr. Johnston, these appropriations were made by the following vote: Aye, Mr. Herrick, Mr. Hickman, Mr. Johnston, Mr. Livingston, Mr. Nickell, Mrs. Watkins; no, none; absent, Mr. Fornof, Mr. Grange, Mrs. Holt, Mr. Megran, Mr. Stratton.

PATENTABLE DISCOVERIES

(7) The University Patent Committee submits the following recommendations relating to potentially patentable discoveries:

a. Dora E. Damrin, Research Assistant Professor, Floyd M. Gardner, Research Associate in the Bureau of Educational Research, and Robert Glaser, former Research Assistant Professor in the Bureau, have developed an invention they call "The Tab Item: A Technique for the Measurement of Proficiency in Diagnostic Problem Solving Tasks." This invention is the result of research under a contract with the United States Air Force. The Committee recommends the release of the invention to the Air Force.

b. Charles E. Osgood, Associate Professor of Psychology, has developed a new measuring device entitled "A Semantic Differential," which is a means of getting personal reaction to words, phrases, and pictures. It is useful in the type of research which is now being done in the field of communications. The Committee has secured the opinions of qualified individuals as to the commercial possibilities of this device and has been unable to find that it has sufficient potential value to justify the expense of securing a patent. The Committee recommends that the invention be released to the inventor.

c. Robert H. Brunner, former Research Assistant in Electrical Engineering, developed a controllable parallelogram electronic cursor, a device of primary value in electronic equipment developed for the Navy and which has no commercial possibilities. The discovery is the result of research work being done at the University for the United States Navy. The Committee recommends release of the discovery to the Navy.

d. Thomas S. Noggle, Research Assistant in Physics, has developed a soft mold technique for growing single crystals of aluminum in the course of research under a contract with the United States Navy. The commercial possibilities of this discovery are extremely limited and the Committee recommends that it be released to the Navy.

e. Ludwig F. Audrieth, Professor of Chemistry, has made a discovery as a result of confidential research work being done under a contract with the Ordnance Department of the United States Army which the Committee recommends be released to the Ordnance Department.

f. Richard E. Norberg, Research Associate in Physics, has developed a technique for improving the homogeneity of magnetic fields as a result of research work under Contract No. DA-11-022-ORD-721 with the Department of the Army. The Committee recommends that this discovery be released to the Army in accordance with the terms of the contract.

g. Edward W. Comings, formerly Professor of Chemistry and now at Purdue University, has developed a high velocity spray dryer, the basic idea of which was formulated by him at the University of Illinois. Subsequent work on this was done by him after he left the University. Attempts to patent the basic idea were unsuccessful because the number of patents in this area is large and according to the United States Patent Office the essential features had been anticipated by prior patents issued. In view of these circumstances, any claims the University may have would be of doubtful value, and to avoid any further complications the Committee recommends that the rights to the discovery be released to Dr. Comings.

I concur in these recommendations.

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

GREAT BRITAIN PATENT ON BETATRON IMPROVEMENT

(8) The University holds United States, Canadian, and Great Britain patents on an improvement on the betatron developed by Professor Donald W. Kerst. The laws of Great Britain provide that an annual tax must be paid, in order to keep a patent in force, and there is now due approximately \$90 on such tax and annual payments will be due hereafter to a maximum of sixteen pounds (approximately \$45) to continue this patent.

In the opinion of the Head of the Department of Physics and the Chairman of the University Research Board, there is no advantage to be derived in keeping this patent in force in Great Britain. Accordingly, they recommend that this patent (Great Britain Patent Serial No. 13624) be allowed to lapse at this time and that no further payments of the tax be made thereon.

I concur.

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

APPLICATION FOR PATENT ON BETATRON IMPROVEMENT

(9) By authority of the Board of Trustees, Professor Donald W. Kerst filed an application for the benefit of the University for a patent on an improvement of the betatron which would double the output and reduce the cost of construction. The United States Patent Office has assigned No. 627481 to the application.

In January, 1951, the Patent Office advised that an interference had developed between this application and others filed by the General Electric Company and Brown, Boveri, and Cie, Baden, Switzerland. Negotiations and hearings toward resolving such difficulty have proceeded and subsequently General Electric Company was ruled out of the interference.

As a result of these proceedings, it became apparent that it would be desirable for the University to request the advice and determine the interest of the Atomic Energy Commission in the patent and, as a result, that agency became an active participant and has assisted materially in bringing the negotiations to their present status. It now appears that the University can not actively continue to prosecute the interference without the expenditure of substantial additional funds, and it is not at all certain that, if this is done, a patent will be awarded to the University.

Negotiations toward a compromise settlement between the remaining parties were authorized several months ago. The Atomic Energy Commission has assisted the University in persuading Brown, Boveri, and Cie to negotiate a settlement without resorting to the courts, and the Atomic Energy Commission has requested that it be granted a license to use the resulting patent. Accordingly, a proposed negotiated settlement between Brown, Boveri, and Cie and the University has been tentatively agreed upon, the terms of which are as follows:

(a) The University will submit to Brown, Boveri, and Cie copies of all proofs and testimony and, after consideration thereof, representatives of such two parties will attempt to arrive at an agreement as to which party has priority and should be awarded the patent. If such an agreement is reached, the other party will withdraw and, presumably, a patent will be issued to the party having priority.

(b) If the University and Brown, Boveri, and Cie are unable to reach such a decision, all evidence will be submitted to the Interference Examiner of the Patent Office for a final determination as to who is to receive the patent, which determination the parties agree to accept.

(c) It will be mutually agreed that the party receiving the patent will then grant to the other party and to the United States Government a non-exclusive, irrevocable, royalty-free, paid-up license to make, have made, sell, and use devices or methods covered by the patent.

It is the opinion of the Associate Head of the Physics Department of the University, the Chairman of the University Patent Committee, and the Chairman of the University Research Board that this proposed agreement will be to the advantage of the University, in that a further substantial expenditure of funds will be unnecessary and that, even if the University fails to receive the patent, it will receive substantially all the rights that would accrue under a patent. It appears that the patent, if used, will probably be of little commercial value.

It is recommended that the Comptroller and the Secretary of the Board be authorized to execute an agreement, substantially following the terms as indicated and subject to such minor modifications as may be necessary in the final negotiations.

On motion of Mr. Nickell, the Comptroller and the Secretary of the Board were authorized to execute the agreement recommended.

**CLAIM AGAINST ARMY NUTRITION LABORATORY
UNDER CONTRACT NO. W-49-007-MD-388**

(10) In April, 1947, the University entered into a contract with the Office of the Surgeon General of the United States for the purpose of carrying on certain research work in the Research and Educational Hospitals. The contract provided, among other things, that the University would make available in the Metabolic Ward four beds for the exclusive use of the Army Nutrition Laboratory. It was specified in the contract that these beds were to be kept available for Army patients and that the University was to be reimbursed at the rate of \$7.70 per day for each bed. Since this was a nutrition project, meals were supplied by the Army.

The original contract was for a period of one year and was renewed.

The University has a claim of \$6,868.40 against the Army Nutrition Laboratory. The Comptroller General of the United States has approved payment of only \$361.90 on this claim. There is submitted herewith a memorandum prepared by the Comptroller giving the history of this case.

All efforts to get favorable action by the Surgeon General on the University's claim having failed, the University's Legal Counsel with the approval of the President of the University placed this matter in the hands of Fisher, Wayland, Duvall, and Southmayd, Attorneys in Washington, for presentation to the United States Court of Claims. The petition was filed under date of February 9, 1953. The University has agreed to pay this firm a fee of \$500, plus a contingency fee of 25 per cent of whatever may be received by the University in settlement of the claim, plus the cost of printing and filing the petition (\$72) and any other out-of-pocket expenses.

On motion of Mr. Johnston, the action of the President was confirmed.

CONTRACT FOR REMODELING ARCADE BUILDING

(11) The Director of the Physical Plant and the Comptroller recommend award of contracts for the amounts indicated to the following lowest bidders for remodeling space in the Arcade Building, formerly occupied by the Katsinas restaurant, for the Photographic Laboratory:

General — Clarence H. Siems, Urbana.....	\$21 748 00
Electrical — Potter Electric Service, Urbana.....	7 949 00
Plumbing and Heating — Champaign Plumbing and Heating Company, Champaign.....	9 200 00
Ventilating and Air Conditioning — F. R. Inskip and Company, Champaign.....	15 385 00

Funds are available in the state appropriation "For remodeling, modernization, and improvement of existing buildings at Urbana-Champaign, including water reclamation installations, plans and specifications and fixed equipment installed relating thereto," subject to release by the Governor.

I concur and recommend that the Comptroller and the Secretary of the Board be authorized to execute these contracts.

On motion of Mrs. Watkins, these contracts were awarded and the Comptroller and the Secretary of the Board were authorized to execute them.

**CONTRACT FOR PARKING LOT AT 816-834
SOUTH ASHLAND AVENUE, CHICAGO**

(12) The Director of the Physical Plant and the Comptroller recommend the award of a contract for \$3,564.65 to Edmier, Inc., Chicago, the lowest bidder, for construction of a parking lot at 816-834 South Ashland Avenue, Chicago, to serve the occupants of the staff apartment building and other University properties in this area.

The work will consist of excavating and preparing a stone base.

Funds for the work are available in an appropriation made by the Board of Trustees on November 28, 1952.

I concur and recommend that the Comptroller and the Secretary of the Board be authorized to execute this contract.

On motion of Mrs. Watkins, this contract was awarded and the Comptroller and the Secretary of the Board were authorized to execute the same.

CONTRACT FOR ARCHITECTURAL SERVICES AT THE CHICAGO PROFESSIONAL COLLEGES

(13) The Director of the Physical Plant and the Comptroller recommend a contract with Pace Associates, Chicago, for architectural work at the Chicago Professional Colleges to prepare plans and drawings of plans for:

- a. Enclosing stairways in the Dentistry-Medicine-Pharmacy Building to conform with the City of Chicago Fire Code.
- b. Remodeling space vacated by departments which will move into the addition to the Research and Educational Hospitals and into the East Dentistry-Medicine-Pharmacy Building.

The estimated cost is approximately \$55,000. Charges for work will be based on the actual time payments to the staff of Pace Associates at the following rates:

Architect-Planner	\$6.00 per hour
Senior Architectural Draftsman.....	\$3.00 to \$3.50 per hour
Structural Engineering Designer	}\$3.50 to \$4.50 per hour
Mechanical Engineering Designer	
Electrical Engineering Designer	
Chief Mechanical Engineer.....	\$5.00 per hour
Senior Engineering Draftsman.....	\$2.50 to \$3.50 per hour

To these charges will be added 100 per cent for overhead costs. The contract will stipulate that the charges for the work may not exceed \$55,000 without approval from the University.

This proposal from Pace Associates is similar to that made on work which they performed for the University previously and is in line with prevailing charges of architectural firms in the Chicago area.

Pace Associates are familiar with the Dentistry-Medicine-Pharmacy Building, having made a complete survey of usage of the building in 1947, and this experience will expedite the work.

Funds are available in the Physical Plant Department budget for item "a" and in the reassignment of funds budgeted for the operation of the Research and Educational Hospitals authorized by the Board of Trustees on January 21, 1953, for item "b."

I concur and recommend that the Comptroller and the Secretary of the Board be authorized to execute this contract with Pace Associates.

On motion of Mr. Johnston, the Comptroller and the Secretary of the Board were authorized to execute the contract as recommended.

PURCHASES

Purchases Authorized

(14) The following purchases were authorized by the President on recommendation of the Director of Purchases and the Comptroller.

<i>Item</i>	<i>Department</i>	<i>Vendor</i>	<i>Cost</i>
Materials for construction of addition to Botany Greenhouse	Physical Plant	American-Moninger Greenhouse Manufacturing Co., Brooklyn, N.Y.	\$5 463 00 f.o.b. Urbana
Furniture for lounge in Men's Residence Hall, Unit No. 1	Housing Division	Mandel Brothers, Chicago	4 121 48 f.o.b. delivered

On motion of Mr. Johnston, these purchases were approved.

Purchases Recommended

The Director of Purchases has proposed and the Comptroller recommends the following purchases. Unless otherwise specified, the purchase in each case is recommended on the basis of lowest bid.

I concur.

<i>Item</i>	<i>Department</i>	<i>Vendor</i>	<i>Cost</i>
One lot of laboratory glass (soft) and assorted laboratory supplies	Chemistry	A. Daigger & Co., Chicago	\$3 848 48 f.o.b. Urbana
One testing machine, 300,000 capacity, hydraulic, two ranges 0-60,000 and 0-300,000 lbs., with platens for testing concrete blocks	Theoretical and Applied Mechanics	Riehle Testing Machine Co., East Moline	6 298 50 f.o.b. East Moline freight allowed
One model V-36 DoAll contour machine	Physics	DoAll Southern Co., St. Louis, Mo.	2 660 00 f.o.b. Des Plaines
One GPE 33BS perforator and table	Graduate College, Digital Computer	Graybar Electric Co., Chicago	3 071 22 f.o.b. Chicago
One RPE 28 perforator with motor and gear units			
Three model 14 transmitter distributors			
One model 15 receiver			
500,000 multiple vitamin capsules	Research and Educational Hospitals	E. R. Squibb & Sons, Chicago	3 875 00 f.o.b. delivered
One laboratory refrigerator for use in the laboratory on the ninth floor of the Research and Educational Hospitals Addition	Research and Educational Hospitals	Haskris Co., Chicago	4 870 00
Movable X-ray equipment for the Research and Educational Hospitals Addition	Research and Educational Hospitals	Picker X-ray Co., Chicago	4 345 00
		Kelley Koett Co., Chicago	2 179 51
		Schick X-ray Co., Chicago	493 50
		Westinghouse X-ray Corp., Chicago	477 00
		Standard X-ray Co., Chicago	175 00
		General X-ray Co., Chicago	72 44
		All quotations f.o.b. delivered	
Operating room and examining room furniture and equipment for the Research and Educational Hospitals Addition	Research and Educational Hospitals	Debs Hospital Supplies, Inc., Chicago	19 630 92
		A. S. Aloe Co., Chicago	14 079 90
		Hospital Equipment Corp., Chicago	9 455 65
		American Hospital Supply Corp., Evanston	3 016 71
		American Sterilizer Co., Chicago	2 730 00
		The Colson Corp., Chicago	2 584 87
		Will Ross, Inc., Milwaukee, Wis.	1 207 56
		V. Mueller and Co., Chicago	112 85
		All quotations f.o.b. delivered	
Venetian blinds to be furnished and installed in the Staff Apartment Building	Physical Plant, Chicago Professional Colleges	Acme Venetian Blind Co., Chicago	4 487 40 f.o.b. delivered and installed
26,000 lbs. white lead paste, type C, in 100 lb. kegs	Physical Plant	Euston Lead Co., Scranton, Pa.	4 680 00 f.o.b. delivered
Two Brooks "Load Lugger" units	Physical Plant	Stahmer Supply Co., Chicago	23 909 74 f.o.b. delivered
Eighteen 8 cu. ft. refuse containers			
Ten 6 cu. ft. general purpose containers			
Two 3 cu. ft. concrete purpose containers			
Twelve 4 cu. ft. general purpose containers			
Complete overhaul and reconditioning of a 12" telescope, dome mechanism and instruments	Astronomy	J. W. Fecker, Inc., Pittsburgh, Pa.	12 458 13
27 sections of special galvanized steel shelving to be furnished and installed in the Dairy Manufactures Building	Physical Plant	Sprinkmann Sons Corp., Peoria	3 392 72 f.o.b. Urbana
Laboratory furniture for rooms 120B, 454, 455, and 457 in Davenport Hall	Physical Plant	Laboratory Furniture Co., Mineola, N.Y.	4 924 30 f.o.b. Urbana
Laboratory furniture for Room 121 in Davenport Hall	Physical Plant	Metalab Equipment Corp., Hicksville, N.Y.	4 598 15 f.o.b. Urbana

<i>Item</i>	<i>Department</i>	<i>Vendor</i>	<i>Cost</i>
Repair parts for General Electric turbines at Abbott Power Plant	Physical Plant	General Electric Co., Springfield	\$2 675 00 f.o.b. Lynn, Mass.
Draperies for ceiling tracks in all apartments (145) in Staff Apartment Building to cover wardrobe and kitchenette openings	Physical Plant, Chicago Professional Colleges	Gilbert A. Force Co., Chicago	5 831 54 delivered
1,000 copies of <i>National Incomes and International Trade</i> , by Hans Neisser and Franco Modigliani, to be printed and bound	University Press	Waverly Press, Inc., Baltimore, Md.	5 148 00 f.o.b. Balti- more

On motion of Mr. Johnston, these purchases were authorized.

ADDITION TO CONTRACTS FOR ANIMAL SCIENCES LABORATORY

(15) The Director of the Physical Plant and the Comptroller recommend increases of \$7,405.33 in the contract with Gallaher and Speck, Incorporated, Chicago, for heating installations and of \$2,304 in the contract with Bloomer Heating and Ventilating Company, Chicago, for air-conditioning work in the Animal Sciences Laboratory to provide for the installation of five sets of pre-heat coils in the ventilating and air-conditioning system to eliminate the danger of freezing the cooling coils and heating coils during cold weather.

When the systems were designed it was the judgment of the engineers in the firm of Naess and Murphy, architects for the building, that the coils would not freeze if all controls and equipment were operating properly. Nevertheless, since freezing is possible, such potential damage to research work makes the installation of additional controls a desirable safeguard. The cost of the preheat coils has also been considered in comparison with the cost of repairs from freezing, plus the inconvenience and possible damage to research work, and the conclusion of all concerned now is that the risk of eliminating these installations is too great.

Funds are available in the state appropriation for the building.

I concur and recommend that the Comptroller be authorized to execute the necessary change order.

On motion of Mr. Herrick, the Comptroller was authorized to execute this change in the contract.

COMPTROLLER'S REPORT OF CONTRACTS

(16) The Comptroller's report of contracts executed during the period January 1 to 31, 1953.

<i>With Whom</i>	<i>Purpose</i>	<i>Amount to be Paid to the University</i>	<i>Date</i>
United States Mutual Security Agency (Agriculture)	Foreign visitors program	Rates per contract	March 1, 1952
Veterans Adminis- tration	On-the-job training	Rates per contract	June 29, 1952
<i>With Whom</i>	<i>Purpose</i>	<i>Amount to be Paid by the University</i>	<i>Date</i>
Burson Brothers, Inc.	Plaster patching at 824-826 S. Wolcott Avenue	\$ 508 00	December 1, 1952
Merce Cunningham	Dance concert	750 00	December 27, 1952
Haskris Company	Aeromedical and physical environ- ment cold laboratory	25 800 00	February 3, 1953

Contract Changes

<i>With Whom</i>	<i>Purpose</i>	<i>Amount to be Paid to the University</i>	<i>Date</i>
Association of American Railroads and American Iron and Steel Institute	Failures in railroad rails study	\$22 000 00	December 16, 1952
Commonwealth Edison Company	Lead sheath materials study	13 500 00	December 16, 1952
Monsanto Chemical Company	Fungicides study	7 500 00	January 26, 1953

<i>With Whom</i>	<i>Purpose</i>	<i>Amount to be Paid to the University</i>	<i>Date</i>
Technical Board of Wrought Steel Wheel Industry	Steel car wheels study	\$12 250 00	January 22, 1953

Adjustments Made in 1951-1952 Cost-Plus Contracts

<i>With Whom</i>	<i>Purpose</i>	<i>Amount</i>	<i>Date</i>
Anderson Electric, Inc.	Smith Music Hall	\$ 448 00	October 20, 1952
Clyde E. Gates Construction Company (General work)	Five minor items: \$250.50 deduct to \$229.72	67 26	January, 1953
Reliable Plumbing and Heating Company	Two minor items (deductions)	170 58 ¹	January, 1953
Schroeder's (Ventilation)	Two minor items	26 75	December, 1952

Adjustments Made in 1952-1953 Cost-Plus Contracts

<i>With Whom</i>	<i>Purpose</i>	<i>Amount</i>	<i>Date</i>
Contracting Construction Company (General work)	Two items: \$820.20 and \$4,973.90	\$ 5 794 10	January, 1953
Ervin G. Lindsey (Plastering)	Forty minor items: \$348.89 deduct to \$740.00	1 932 57	January, 1953
Potter Electric Service	Two minor items: \$583.00 and \$768.19	1 351 19	January, 1953
Reliable Plumbing and Heating Company	Three minor items: \$81.72 deduct to \$1,074.48	1 492 76	January, 1953
Schroeder's (Refrigeration)	Vivarium Building	1 224 86	December 30, 1952

This report was received for record.

QUARTERLY REPORT OF THE COMPTROLLER

(17) The Comptroller presents his quarterly report to the Board as of December 31, 1952.

This report was received for record and a copy has been filed with the Secretary of the Board.

REPORT OF GIFTS AND GRANTS RECEIVED BY THE UNIVERSITY

(18) The following gifts and grants of funds received by the University have been accepted by the President in accordance with the statutory procedure and are now being reported for official record.

Colleges and Schools at Urbana-Champaign

A. Undergraduate Scholarships, Prizes, and Other Financial Aids

1. Agriculture Club, \$48.57 for scholarships.
2. Alpha Alpha Chapter of Alpha Phi Omega, national service fraternity, \$250 for scholarships for the academic year 1952-1953.
3. American Legion Auxiliary, Department of Illinois, \$1,000 for a scholarship for one year of study in a Latin-American university, beginning March, 1953.
4. Estate of Margaret Anderson, \$5,000 to be added to the William Anderson Memorial Scholarship in Music.
5. Anonymous, \$41 for general undergraduate scholarship funds.
6. Campus Chest, University of Illinois (undergraduate fund raising organization), \$900 for undergraduate scholarships.
7. Ceco Steel Products Corporation, Cicero, \$2,000 for scholarships in engineering. (This gift supplements a previous grant of \$4,000 for scholarships for 1952-1954.)
8. Central Mining Supply Company, \$200 for the Alfred Pickard Scholarship in mining engineering for the academic year 1952-1953.
9. Chicago Farmers, \$500 for the continuation of a scholarship in the College of Agriculture.

¹ Deduct.

10. Douglas Aircraft Company, Inc., Santa Monica, California, \$600 for a scholarship in the College of Engineering for the academic year 1952-1953.
11. Illinois Congress of Parents and Teachers:
 - a. \$600 for three scholarships (\$200 each) for the academic year 1952-1953. (The amount received to date is \$8,400.)
 - b. \$250 for a scholarship to be awarded to a student preparing to teach handicapped children. (The amount received to date is \$1,200.)
12. Illinois Federation of Women's Clubs, Third Congressional District, \$1,665 to be added to the Third District Fund for scholarships in Occupational Therapy. (Total amount received to date is \$7,905.)
13. Illinois Federation of Women's Clubs, \$3,100 to add to the Occupational Therapy Scholarship Fund. (The amount received to date is \$22,563.50.)
14. Illinois Mining Institute, \$100 for scholarships in mining engineering.
15. Illuminating Engineering Society, \$250 for scholarships for students in the illuminating engineering curriculum of electrical engineering.
16. Junior Women's Advertising Club of Chicago, \$60 for a scholarship in journalism for the academic year 1952-1953.
17. The Kroger Company, Cincinnati, Ohio, \$1,200 to continue six scholarships (\$200 each) in agriculture and home economics for the academic year 1952-1953.
18. Market Coverage, Inc., Everett, Washington, \$500 for scholarships in sanitary engineering for the academic year 1953-1954.
19. Mr. Albert Mohr, Jr., Chicago, \$1,000 to the Robert Zuppke Scholarship Fund. (This is the third gift of \$1,000 from Mr. Mohr.)
20. John Morse Memorial Foundation, Chicago, \$3,000 for six scholarships in mechanical and electrical engineering for the academic year 1952-1953.
21. N. O. Nelson Company, St. Louis, Missouri, \$500 for scholarships in sanitary engineering.
22. Old Ben Coal Company, \$400 for scholarships in mining engineering for the academic year 1952-1953.
23. Peabody Coal Company, \$1,200 for scholarships in mining engineering for the academic year 1952-1953.
24. Henry A. Petter Supply Company, \$200 for scholarships in mining engineering for the academic year 1952-1953.
25. Mrs. Kittie B. Pierce, LaGrange, Illinois, \$500 to continue the Phyllis Pierce Ruettinger Scholarship for the academic year 1952-1953. (The amount contributed to date is \$6,100.)
26. Pi Kappa Lambda, music fraternity, \$100 for a scholarship in music.
27. Praetorian Society, an organization of students residing in the University Men's Residence Halls, \$120 for scholarships.
28. The Presser Foundation, Philadelphia, Pennsylvania, \$350 to continue its scholarship in music for the academic year 1951-1952.
29. Mr. John W. Ruettinger, Chicago, \$500 to continue the John C. Ruettinger Memorial Scholarship for the academic year 1952-1953. (The amount received to date is \$7,000.)
30. Sears Roebuck Foundation, \$4,425 for scholarships in the College of Agriculture.
31. Sigma Delta Chi, honorary journalism fraternity, \$323.01 for undergraduate scholarships.
32. University Concert and Entertainment Board, \$500 for scholarships in the School of Music.
33. University of Illinois Mother's Association, \$200 for two scholarships for the academic year 1952-1953.
34. University of Illinois Student Organization Fund, \$500 for scholarships.
35. Zeta Phi Eta, honorary speech fraternity, \$721 for scholarships in speech.
36. Advertising Executives Club of Chicago, \$150 to the School of Journalism and Communications for a scholarship in advertising.
37. Alpha Xi Chapter of Phi Mu Alpha-Sinfonia, professional music honorary fraternity, \$100 for a scholarship in music for first-year men students.
38. American Air Filter Company, Inc., Herman Nelson Division, Moline, Illinois, \$1,000 for three scholarships in the College of Engineering (\$400 for a senior, \$300 for a junior, and \$300 for a sophomore).

39. Mrs. Marie C. Berger, Washington, D.C., \$340 for a scholarship to any resident of the Trust Territory of Samoa for the academic year 1952-1953.

40. Lou Boudreau Trust Fund (a trust set up in the National Bank of Harvey, Illinois, by citizens of that community), \$335 for the Lou Boudreau Scholarship awarded to three male graduates of Thornton Township High School attending the University.

41. Brook Hill Farms, Inc., Chicago, \$100 for the continuation of the Brook Hill Farms Scholarship in dairy technology.

42. Gulf, Mobile, and Ohio Railroad Company, Jackson, Tennessee, \$2,200 for seven scholarships in agriculture and home economics for the academic year 1953-1954.

43. Harrison Jules Louis Frank and Leon Harrison Frank Memorial Corporation, Detroit, Michigan, \$500 for a scholarship in electrical engineering for the academic year 1952-1953.

44. Miss Hilda Kolb, Marine, Illinois, \$5,000 as an initial gift to establish the Leo and Hilda Kolb Memorial Fund for scholarships for worthy and needy students from Madison County (with preference to be given to students from Marine Township).

45. Universal Oil Products Company, Des Plaines, Illinois, \$1,000 for two scholarships (\$500 each) in chemical engineering for the academic year 1953-1954.

46. Alumni of the Department of Ceramic Engineering, \$2,565 to renovate and equip the study and lounge room in the Ceramics Building.

47. The Citizenship Clearing House, New York University, New York, New York, \$780 to the Institute of Government and Public Affairs for a conference on training of college students for political participation, held at Robert Allerton Park, December 5 and 6, 1952.

48. Mr. and Mrs. Edward Clamage, Chicago, \$200 to add to previous funds given by them in memory of their son, Raymond Clamage, who died in World War II. The total of this fund is now \$902.79 and it has been changed from a student loan fund to the Raymond Clamage Prize endowment, the income to be used for awarding prizes to students working on the *Daily Illini* under conditions and provisions approved by the President of the University.

49. Coal Producers Association of Illinois, \$80, Illinois Coal Operators Association, \$300, National Coal Association, \$400, and Sahara Coal Company, Inc., \$220, to pay for the publication of a brochure "Careers in Mining Engineering" by the University.

50. Estate of Jennie C. Lee, \$7,911.16 for the Eddy Orland Lee student loan fund. (See also Minutes, December 22, 1952, page 495.)

51. Link Aviation, Inc., Hillcrest, Binghamton, New York, a \$5,000 unrestricted grant for the Institute of Aviation.

52. New Castle Products Company, Greencastle, Indiana, \$1,000 to be added to the James M. White Memorial Fund, the income to be used for prize awards to students in the Department of Architecture.

53. Pi Beta Phi, Champaign Alumnae Club, \$100 to assist needy women students.

54. College of Engineering undergraduate students, \$341.78 net proceeds from St. Pat's Ball for a College of Engineering open house.

55. Shi-Ai, student inter-sorority organization, \$550 to assist needy undergraduate women students.

56. University of Illinois Mother's Association, \$100 to assist needy women students.

57. Women's District Grand Lodge No. 6, B'nai B'rith, Chicago, \$100 for the Dr. Abram Leon Sachar Prize in History.

58. Women's Group System, \$300 to assist needy women students.

Total, Undergraduate Scholarships, Prizes, and

Other Financial Aid\$63,476.52

B. Funds for Graduate Fellowships and Research

59. Allied Chemical and Dye Corporation:

a. National Aniline Division, New York, New York, \$1,500 for the renewal of a fellowship in organic chemistry for the academic year 1952-1953.

b. The Nitrogen Division, Hopewell, Virginia, \$1,500 for the renewal of a fellowship in organic chemistry for the academic year 1952-1953.

60. American Cancer Society, Inc., New York, New York:

a. \$500 for expenses supplementing a fellowship in chemistry under the direction of Dr. Carl S. Vestling for one year beginning July 1, 1951.

b. \$12,410.07 for a study of plant tumors produced by virus, under the direction of Dr. L. M. Black of the Department of Botany, for ten months beginning September 1, 1952.

61. American Cyanamid Company, New York, New York, \$1,800 for a fellowship in chemistry for the academic year 1952-1953.

62. Archer-Daniels-Midland Company, Minneapolis, Minnesota, \$1,500 for a fellowship in food technology for the academic year 1952-1953.

63. Armour and Company, Chicago, \$4,800 for the renewal of a fellowship in chemistry for the academic year 1952-1953.

64. The Borden Company, New York, New York, \$2,250 for a fellowship in food technology.

65. Celanese Corporation of America, New York, New York, \$2,500 for a fellowship in physics for the academic year 1952-1953.

66. Chicago Vitreous Enamel Product Company, Cicero, \$1,200 for a fellowship in ceramic engineering for the academic year 1952-1953.

67. Cincinnati Chemical Works, Inc., Cincinnati, Ohio, \$1,400 for the renewal of a fellowship in chemistry for the academic year 1952-1953.

68. The Dow Chemical Company, Midland, Michigan, \$1,500 for the renewal of a fellowship in chemistry for the academic year 1952-1953.

69. E. I. duPont de Nemours, Wilmington, Delaware, \$3,300 for a fellowship in chemistry and \$3,300 for a fellowship in chemical engineering for the academic year 1952-1953.

70. Eastman Kodak Company, Rochester, New York, \$1,400 for a fellowship in chemistry and \$1,400 for a fellowship in physics for the academic year 1952-1953.

71. Ethyl Corporation, Ferndale, Detroit, Michigan, \$1,800 for the renewal of a fellowship in chemistry for the academic year 1952-1953.

72. The Firestone Tire and Rubber Company, Akron, Ohio, \$1,500 for the renewal of a fellowship in chemistry for the academic year 1952-1953.

73. General Electric Company, Schenectady, New York, \$2,600 for a fellowship in chemistry and \$3,300 for a fellowship in physics for the academic year 1952-1953.

74. Eli Lilly and Company, Indianapolis, Indiana, \$3,000 for the renewal of a fellowship in chemistry for the academic years 1952-1953 and 1953-1954 (\$1,500 each).

75. Monsanto Chemical Company, St. Louis, Missouri, \$2,500 for the renewal of a fellowship in chemistry for the academic year 1952-1953.

76. The National Foundation for Infantile Paralysis, \$300 for laboratory expenses supplementing a fellowship in the Department of Bacteriology.

77. National Lead Company, Baroid Sales Division, Houston, Texas, \$2,100 for the renewal of a fellowship in geology for the academic year 1952-1953.

78. National Yeast Corporation, Belleville, New York, \$1,500 for a fellowship in bacteriology for the academic year 1952-1953.

79. Olin Industries, Inc., East Alton, Illinois, \$4,000 for fellowships in nitrogen chemistry for the summer of 1952 and academic year 1953-1954.

80. The Edward Orton Jr. Ceramic Foundation, Columbus, Ohio, \$1,600 for a fellowship in ceramic engineering for the academic year 1952-1953.

81. Parke, Davis, and Company, Detroit, Michigan, \$1,462 for a fellowship in biochemistry for one year beginning September 1, 1951.

82. Pittsburgh Consolidation Coal Company, Library, Pennsylvania, \$4,500 for the renewal of a fellowship in chemistry for the academic years 1952-1953 and 1953-1954.

83. The Procter and Gamble Company, Cincinnati, Ohio, \$3,300 for a fellowship in chemistry for the academic year 1952-1953.

84. Radio Corporation of America, New York, New York, \$2,700 for the renewal of a fellowship in electrical engineering for the academic year 1952-1953.

85. Ralston Purina Company, St. Louis, Missouri, \$1,560 for the renewal of a fellowship in animal nutrition for the academic year 1952-1953.

86. Rohm and Haas Company, Philadelphia, Pennsylvania, \$1,500 for the renewal of a fellowship in chemistry for the academic year 1952-1953.

87. Shell Fellowship Committee, New York, New York, \$3,800 for the renewal of fellowships in chemical engineering and geology (\$1,900 each) for the academic year 1952-1953.

88. Social Science Research Council, Washington, D.C., \$3,900 for a faculty fellowship for Associate Professor Charles E. Osgood of the Department of Psychology for research during the summers of 1951 and 1952.

89. Standard Oil Company of California, San Francisco, California, \$1,250 for the renewal of a fellowship in chemistry for the academic year 1952-1953.

90. The Standard Oil Company, Cleveland, Ohio, \$2,100 for the renewal of a fellowship in chemistry for the academic year 1952-1953.

91. United States Rubber Company, Passaic, New Jersey, \$2,600 for a fellowship in chemistry for the academic year 1952-1953.

92. Victor Chemical Works, Chicago, \$1,750 for the renewal of a fellowship in chemistry for the academic year 1952-1953.

93. Western Cartridge Company, Olin Industries, Inc., Alton, Illinois, \$1,000 for a fellowship in mining and metallurgical engineering for the academic year 1952-1953.

94. General Aniline and Film Corporation, New York, New York, \$1,395.63 for the renewal of a research assistantship in chemistry for the academic year 1952-1953.

95. Illinois Clay Products Company, Joliet, Illinois, \$4,000 for two fellowships in geology (\$2,000 each) for the academic year 1952-1953.

96. Lakefield Nepheline Syenite, Columbus, Ohio, \$1,600 for the renewal of a fellowship in ceramic engineering for one year beginning the second semester of 1951-1952.

97. Lindsay Chemical Co., West Chicago, Illinois, \$1,200 for the renewal of a fellowship in chemistry for the academic year 1953-1954.

98. Minnesota Mining and Manufacturing Company, St. Paul, Minnesota, \$4,000 for the renewal of two fellowships in chemistry (\$2,000 each) for the academic year 1952-1953.

99. Motorola, Inc., Chicago, \$750 for the renewal of the Galvin Fellowship in electrical engineering for the academic year 1953-1954.

100. The Ohio Oil Company, Robinson, Illinois, \$1,620 for a research assistantship in chemistry for the second semester of 1952-1953 and the 1953 summer session.

101. G. D. Searle and Company, Chicago, \$1,980 for the renewal of a fellowship in chemistry for one year beginning June 15, 1951.

102. Sinclair Refining Company, New York, New York, \$2,500 for the renewal of a fellowship in chemistry for the academic year 1953-1954.

103. Union Carbide and Carbon Corporation, New York, New York, \$3,300 for a fellowship in mining and metallurgical engineering for the academic year 1952-1953.

104. The Visking Corporation, Chicago, \$4,500 for the renewal of two fellowships, one in chemistry and one in chemical engineering (\$2,250 each), for the academic year 1953-1954.

105. Abbott Laboratories, Chicago, \$2,000 to the Department of Food Technology for a study of artificial sweeteners in dietetic frozen desserts.

106. American Cancer Society, Illinois Division, \$2,000 for research on viruses and their possible relationship to tumor formation, under the direction of Professor S. E. Luria of the Department of Bacteriology.

107. American Cancer Society, Inc., New York, New York, for support of the following research:

a. \$18,000 for studies on virus growth and structure and on host-virus specificity, under the direction of Professor S. E. Luria of the Department of Bacteriology, for one year beginning July 1, 1951.

b. \$2,000 for research on the influence of carcinogenic agents on fat metabolism, under the direction of Professor Fred A. Kummerow of the Department of Food Technology, for one year beginning July 1, 1951.

c. \$2,078 for research on the effect of indole-3-acetic acid and other plant growth substances on the assimilation of pyruvate by wheat roots, under the direction of Professor James F. Nance of the Department of Bacteriology, for one year beginning July 1, 1951.

108. American Gas Association, \$9,000 to the Department of Mechanical Engineering for research work in the Engineering Experiment Station.

109. American Philosophical Society, Philadelphia, Pennsylvania, \$2,000 to the Department of Chemistry, for research on the determination of the transference numbers of alkali halides in non-aqueous solvents, under the direction of Professor B. Roger Ray.

110. Armour and Company, Chicago:

a. \$4,000 to the Department of Animal Science for an investigation of surface active agents and other materials as growth stimulants for animals and poultry.

b. \$3,000 to the Department of Food Technology for a study of the factors which affect the stability of highly unsaturated fatty acids.

111. Beatrice Foods Company, Chicago, \$4,000 to the Department of Agricultural Economics for the investigation of the economic place of concentrated milk.

112. Champaign County Board of the United Cerebral Palsy Association, \$800 to the Institute for Research on Exceptional Children for studies with cerebral palsied children.

113. E. I. duPont de Nemours and Company, Wilmington, Delaware, \$15,000 to the Department of Chemistry for fundamental research for the academic year 1952-1953.

114. The Engineering Foundation, \$3,600 for research on riveted and bolted structural joints by the Engineering Experiment Station in cooperation with the Research Council on Riveted and Bolted Structural Joints.

115. Food Machinery and Chemical Corporation, Niagara Chemical Division, Middleport, New York, \$1,500 to the Department of Horticulture for research on the chemical thinning of tree fruits.

116. Food and Machinery Corporation, San Jose, California, \$1,500 to the Department of Food Technology for a study of food sterilization.

117. The Ford Foundation, New York, New York, \$11,000 for grants-in-aid to Professors C. Addison Hickman of the Department of Economics and Oscar Lewis of the Department of Sociology and Anthropology for studies of individual behavior and human relations.

118. Illinois Grain Corporation, \$1,800 to the Department of Agricultural Economics for a study of the improvement of operating efficiency of county grain dealers in Illinois.

119. Illinois State Restaurant Association, \$100 to the Department of Home Economics for the program in restaurant management.

120. Illinois Seed Producers Association, Inc., \$5,200 to the Department of Agronomy for corn research.

121. Inter-University Labor Education Committee (funds supplied by the Ford Foundation), \$17,500 for participation of the Institute of Labor and Industrial Relations with other universities in labor education programs.

122. Kellogg Foundation, Battle Creek, Michigan, through the Cooperative Program in Educational Administration at the University of Chicago, \$2,500 in support of a research project in leadership in school district reorganization under the direction of Professor W. P. McLure of the College of Education.

123. Eli Lilly and Company, Indianapolis, Indiana:

a. \$5,000 for research on fructokinase, under the supervision of Professor Carl S. Vestling of the Department of Chemistry.

b. \$2,500 for research on the relationship between cortisone toxicity and diet, under the direction of Professor L. M. Henderson of the Department of Chemistry.

c. \$8,000 for studies on the pyruvate oxidation factor, under the supervision of Professor Irwin Gunsalus of the Department of Bacteriology.

124. Merrill Foundation for Advancement of Financial Knowledge, Inc., New York, New York, \$10,000 to continue research on expectations and business fluctuations.

125. Midwest Barley Improvement Association, Milwaukee, Wisconsin, \$200 to the Department of Agronomy for barley variety fertilizer tests at Woodstock, Illinois.

126. Mrs. C. Phillip Miller, Chicago, \$2,127.20 to be added to the Sinnissippi Forest Trust Fund in support of forestry research.

127. Motorola, Inc., Chicago, \$40,000 to the College of Engineering for research in the general areas of solid state physics and radio wave propagation.

128. National Live Stock and Meat Board, \$3,500 to the Department of Physiology for a study of calcium phosphorous requirements.

129. National Oak Wilt Research Committee, \$9,000 to the State Natural History Survey for research on oak wilt disease.

130. National Science Foundation, Washington, D.C., in support of the following:

a. \$18,600 for research on carbon dioxide exchange during the induction period of photosynthesis, under the direction of Professor Robert Emerson of the Department of Botany (NSF-G27).

b. \$17,200 for research on mode of action of cocarboxylase in carbohydrate metabolism, under the direction of Dr. Elliot Juni of the Department of Bacteriology (NSF-G4).

c. \$4,600 for research on growth and cellular transformation during regeneration in amphibia, under the direction of Professor S. Meryl Rose of the Department of Zoology (NSF-G115).

d. \$9,500 for research on the alkaloids of haplophyton cimicidum, under the direction of Professor H. R. Snyder of the Department of Chemistry (NSF-G135).

e. \$5,100 for research on the Goldbach problem in algebraic number fields, under the direction of Professor Paul T. Bateman of the Department of Mathematics (NSF-G141).

f. \$3,000 for research on the geometry of matrices, under the direction of Professor Josephine Mitchell of the Department of Mathematics (NSF-G142).

g. \$9,200 for research on low temperature electronic phenomena in solids, under the direction of Professor Robert J. Maurer of the Department of Physics (NSF-G145).

h. \$5,000 for research on adsorption processes at electrode surfaces, under the direction of Professor H. A. Laitinen of the Department of Chemistry (NSF-G225).

i. \$17,500 for research on pathways of carbohydrate oxidation in aerobic bacteria, under the direction of Professor Willis A. Wood of the Department of Dairy Science (NSF-G257).

131. The Nutrition Foundation, Inc., New York, New York, \$2,500 to the Department of Chemistry for research on the role of related nutrients in the metabolism of tryptophan and niacin.

132. Ohmite Manufacturing Co., Chicago, \$5,000 to the Department of Ceramic Engineering for research.

133. Ortho Research Foundation, Raritan, New Jersey, \$150 to the Department of Physiology for research.

134. Research Corporation, New York, New York, to the Department of Chemistry:

a. \$3,600 for research on the determination of the transference of numbers of the alkali halides in non-aqueous solvents, under the direction of Professor B. Roger Ray.

b. \$2,000 for research on a new method of resolution of optically active organic substances, under the direction of Professor J. C. Bailar.

135. The Rockefeller Foundation, New York, New York, \$5,000 to the Department of Entomology for research in insect nutrition, under the direction of Professor G. S. Fraenkel, for one year beginning July 1, 1952.

136. Samuel Rubin Foundation, Inc., New York, New York, \$3,500 to the Department of Sociology and Anthropology for research under the direction of Professor Julian Steward.

137. Scientific Oil Compounding Company, Inc., Chicago, \$1,000 to the Department of Horticulture for work on testing solubilized oil fungicides for tomato disease control.

138. Sharples Chemicals, Inc., Wyandotte, Michigan, \$1,000 to the Department of Agronomy for research on weed eradication.

139. Shell Chemical Corp., New York, New York, \$600 to the Department of Horticulture for a study of fungicides.

140. Henry Strong Educational Foundation, Chicago, \$600 for the renewal of a fellowship in physics, chemistry, or engineering for the academic year 1952-1953.

141. The Timken Roller Bearing Company, Canton, Ohio, \$1,200 to complete final report of a study of the economic effects of the use of solid type bearings on the railroads of the country.

142. United States Public Health Service, for support of the following research:

a. \$28,149 to discover methods and principles that can be used later in the development of instruments to assist in screening out persons in need of diagnosis and treatment for mental disorders, under the direction of Professor L. L. McQuitty of the Department of Psychology (3M-9020-C2).

b. \$20,992 for extension of personality structure investigation, in terms of objective test factor measures, to children, under the direction of Professor R. B. Cattell of the Department of Psychology (MH-80-C4).

c. \$3,155 for an ecological, morphological, physiological comparative study of *Diphyllbothrium* in North America for differentiating species infecting man from those infecting fish-eating birds, under the direction of Professor L. J. Thomas of the Department of Zoology (E-125-C).

d. \$6,000 for a study in the biological utilization of food emulsifiers and bread softening agents of the Polyhydroxy type, under the direction of Professor F. A. Kummerow of the Department of Food Technology (A 257).

e. \$28,910 for a pre-school project for mentally handicapped children, under the direction of Professor S. A. Kirk of the Institute for Research on Exceptional Children (MH-274-C2).

f. \$5,897 for the search for viruses that parasitize protozoa, under the direction of Professor N. D. Levine of the College of Veterinary Medicine (E 387).

g. \$6,190 to determine the effects of high temperatures on the inactivation of enzymes and on the destruction of microorganisms and some of the physical-chemical properties of milk and cream, under the direction of Professor P. H. Tracy of the Department of Food Technology (RG 1947-C2).

h. \$9,646 for studies of the inositol lipids of plant and animal tissues, under the direction of Professor H. E. Carter of the Department of Chemistry (RG 2031-C3).

i. \$7,560 to determine the basic nutrition of virulent insects, under the direction of Professor G. S. Fraenkel of the Department of Entomology (2075-C2).

j. \$10,800 for a study of the nature, cause, and control of housefly resistance to insecticides, under the direction of Professor G. C. Decker of the Department of Entomology (RG 2623-C2).

k. \$4,924 to determine factors affecting the concentration of free amino acids in animal tissues, under the direction of Professor L. M. Henderson of the Department of Chemistry (RG 2674-C2).

l. \$5,680 for a study of the effect of uterine distention on the endocrine function of the pituitary gland, under the direction of Professor A. V. Nalbandov and Dr. W. W. Moore of the Department of Animal Science (G 3557).

m. \$14,517 for training in clinical psychology, under the direction of Professor J. McVicker Hunt of the Department of Psychology (2M-5089-C5).

143. Velsicol Corp., Chicago, \$2,500 for the continuation of grant-in-aid to investigate toxicology of insecticides, under the direction of Professor Lester Ingle of the Department of Zoology.

144. Western Cartridge Company, a division of Olin Industries, East Alton, Illinois, \$4,600 to the State Natural History Survey for research on migratory waterfowl.

145. Wilkie Foundation, Des Plaines, Illinois, \$900 to the Department of Mechanical Engineering for reference study in the field of flame temperature, under the direction of Professor James H. Potter.

Total, Funds for Graduate Fellowships and Research.....\$589,902.90

C. Gifts of Equipment and Works of Art and Library Materials

146. The College of Law Alumni Association, a portrait by Albert K. Murray, New York, New York, of Dean Albert James Harno to be hung in the building occupied by the College of Law.

147. Mr. and Mrs. Erle Ludgin, Chicago, a bronze head of Ivan Le Lorraine Albright, the painter, modeled by his son.

148. Redford Iron and Equipment Company, Redford core blower for the Chicago Undergraduate Division (estimated value \$350).

Total, Urbana-Champaign.....\$653,379.42

*Chicago Professional Colleges**A. Funds Received from Private Industries, Foundations, Other Organizations, and Government Agencies for Research and Graduate Study*

149. Abbott Laboratories, North Chicago, Illinois:

a. \$3,500 for a study of antimalarial drugs in rheumatoid arthritis, under the supervision of Dr. I. E. Steck of the Department of Medicine, for six months beginning July 1, 1951.

b. \$3,200 for research on connective tissue in allergy, under the direction of Dr. Max Samter of the Department of Medicine, for the period from January 2, 1952, through October 31, 1953.

c. \$1,000 for a study of anti-secretory drugs, under the direction of Dr. M. I. Grossman of the Department of Clinical Science, for one year beginning April 1, 1952.

d. \$3,300 for studies on Florethrin, under the direction of Dr. Harry F. Dowling of the Department of Medicine.

e. \$3,000 for research in the Division of Electroencephalography, under the direction of Dr. Frederic Gibbs of the Department of Neurology and Neurological Surgery.

150. Armour Laboratories, Chicago:

a. \$970 for plasma expander research, under the direction of Dr. R. C. Ingraham of the Department of Physiology (College of Medicine).

b. \$3,600 for the Armour Hematology Fund for research under the direction of Dr. L. R. Limarzi of the Department of Medicine.

c. \$3,500 for research on the isolation and purification of antifungal agents, under the direction of Doctors E. E. Smismann and G. L. Webster of the Department of Chemistry (College of Pharmacy), for one year beginning June 15, 1952.

151. Baxter Laboratories, Morton Grove, Illinois:

a. \$4,600 for a study of the effect of pyromen on Mann-Williamson dogs, under the direction of Dr. M. I. Grossman of the Department of Clinical Science, for one year beginning October 1, 1951.

b. \$2,400 for a study of tissue reactions of pyromen, under the supervision of Dr. Max Samter of the Department of Medicine, for one year beginning June 1, 1951.

152. Bristol Laboratories, Inc., Syracuse, New York:

a. \$833 for continuation of a study on bacterial metabolism, under the direction of Dr. S. B. Binkley of the Department of Biological Chemistry.

b. \$14,000 for fellowships in the Department of Pharmacology, under the direction of Dr. C. C. Pfeiffer, for two years beginning January 1, 1951.

153. Commonwealth Edison Company, Chicago, \$1,000 for a study of pole-top resuscitation, under the direction of Dr. A. C. Ivy of the Department of Clinical Science, for eight months beginning May 1, 1952.

154. Davis and Geck, Inc., Brooklyn, New York, \$500 for visual education studies, under the direction of Doctors W. H. Cole and H. P. Jenkins of the Department of Surgery.

155. Duke Laboratories, Inc., Stamford, Connecticut, \$500 to the Department of Dermatology for research, under the direction of Dr. Francis E. Seneor, for one year beginning September 1, 1952.

156. Gillette Safety Razor Company, Boston, Massachusetts, \$9,500 for continuation of a study of the role of sulfhydryl groups in metabolism, under the direction of Dr. Leon L. Gershbein of the Department of Clinical Science.

157. Griffith Laboratories, \$150 to the Department of Pharmacology for research, under the direction of Dr. C. C. Pfeiffer.

158. Hoffman-LaRoche, Inc., Nutley, New Jersey, \$8,800 for studies of infectious diseases, under the direction of Dr. Harry F. Dowling of the Department of Medicine, beginning February 1, 1952.

159. Lederle Laboratories, Pearl River, New York, \$30,000 for studies of infectious diseases and related fields, under the direction of Dr. Harry F. Dowling of the Department of Medicine, for three years beginning January 1, 1952.

160. Eli Lilly and Co., Indianapolis, Indiana:

a. \$6,330 for continuation of a study of histamine analogues and anti-histamine and astropine-like substances on gastric secretion, under the direction of Dr. M. I. Grossman of the Department of Clinical Science.

b. \$1,000 for virus research, under the direction of Dr. J. E. Kempf of the Department of Bacteriology, for eight months beginning November 1, 1952.

161. Mallinckrodt Chemical Works, St. Louis, Missouri:

a. \$4,000 for the Mallinckrodt Anticonvulsant Expense Fund, under the direction of Dr. C. C. Pfeiffer of the Department of Pharmacology, for one year beginning January 1, 1952.

b. \$6,000 for a fellowship in the Department of Pharmacology, under the direction of Dr. C. C. Pfeiffer, for one year beginning January 1, 1952.

162. Mead Johnson Company, Evansville, Indiana, \$750 to supplement the Mead Johnson Amino Acid Fund for research, under the direction of Dr. W. H. Cole of the Department of Surgery.

163. Ohio Chemical and Surgical Equipment Company, Madison, Wisconsin, \$1,500 for a study of isopropyl vinyl ether, under the direction of Dr. Max Sadove of the Department of Surgery, beginning April 15, 1952.

164. Chas. Pfizer and Company, Inc., Brooklyn, New York, \$1,000 for scholarships in the College of Medicine.

165. Research Corporation, New York, New York, \$5,300 for an investigation of pharmacologically important compounds by the method of nuclear magnetic resonance by Doctors W. G. Moulton and Robert A. Kromhout, physicists in the Chicago Undergraduate Division working under the direction of the Department of Radiology.

166. G. D. Searle and Company, Chicago, \$5,560 for a study of the effect of Banthine on the motility of the small and large intestine, under the direction of Dr. M. H. Streicher of the Department of Medicine, for one year beginning May 10, 1951.

167. Smith, Kline, and French Laboratories, Philadelphia, Pennsylvania:

a. \$552 for research on Cholesterol, under the direction of Dr. A. C. Ivy of the Department of Clinical Science.

b. \$3,000 for a fellowship in the Department of Pharmacology, under the direction of Dr. K. R. W. Unna, for one year beginning October 1, 1952.

168. R. J. Strassenburgh Co., Rochester, New York, \$5,500 for a study of the effects of inositol hexanitrate in patients with hypertension, under the direction of Dr. A. C. Ivy of the Department of Clinical Science, for one year beginning May 1, 1951.

169. Toni Company, Chicago, \$3,000 for continuation of a study of bacteriology of seborrheic dermatitis and related dermatoses, under the direction of Doctors E. E. Vicher of the Department of Bacteriology (College of Medicine) and M. J. Brunner of the Department of Dermatology.

170. Upjohn Company, Kalamazoo, Michigan, \$5,000 for studies on physiology of virus host cell interaction, under the direction of Dr. John E. Kempf of the Department of Bacteriology (College of Medicine), for one year beginning March 1, 1952.

171. Wander Company, Chicago, \$2,000 for nutrition and digestion research, under the direction of Dr. A. C. Ivy of the Department of Clinical Science, for one year beginning January 1, 1952.

172. Arthritis and Rheumatism Foundation, Chicago, \$1,500 to continue a fellowship in the Department of Medicine, under the supervision of Doctors M. M. Montgomery and I. E. Steck, for one year beginning January 20, 1952.

173. Louis Bothman Memorial Fund, Inc., \$5,000 to establish the Louis Bothman Fellowship in Ocular Pathology.

174. Field Foundation, \$26,000 for a study of psychosomatic disorders in children, under the direction of Doctors Margaret Gerard, Department of Psychiatry, and Julius B. Richmond, Department of Pediatrics, for two years beginning September 1, 1952. (This grant is payable quarterly; the first two payments of \$6,500 each have been received.)

175. Lakeland Foundation:

a. \$6,475 for the renewal of a grant for the cancer diagnostic test, under the direction of Dr. A. C. Ivy of the Department of Clinical Science, for one year beginning July 1, 1952.

b. \$7,092.85 for research on isolation of the growth stimulating and inhibiting agents from the liver or intestinal mucosa, under the direction of Dr. A. C. Ivy, for the period April 1 to September 30, 1952.

176. Leukemia Research Foundation, Inc., Chicago, \$3,900 for research on the role of amino acid deficiencies in nucleic acid metabolism of spontaneous mouse leukemia, under the direction of Dr. H. G. Poncher of the Department of Pediatrics.

177. Life Insurance Medical Research Fund, \$300 for expenses supplementing a fellowship in the Department of Biological Chemistry, under the direction of Dr. S. B. Binkley.

178. John and Mary Markle Foundation, New York, New York, \$18,000 for graduate scholarships in the medical sciences.

179. National Foundation for Medical Education, Inc., \$26,803 to supplement the budget of the College of Medicine, for two years beginning July 1, 1951. (\$430 of this has been contributed by individual physicians.)

180. National Vitamin Foundation, New York, New York, \$3,600 for a study of Carnitine (Vitamin B₁₂) levels in the blood, urine, and skeletal muscle of healthy individuals and in patients suffering with nutritional disease, under the supervision of Dr. Robert M. Kark of the Department of Medicine, for one year beginning July 1, 1952.

181. Playtex Park Research Institute, \$2,500 for research in the Department of Pediatrics, under the supervision of Dr. H. A. Waisman.

182. Pope Foundation, Chicago, \$2,500 for continuation of studies to establish dynamic technics for analysis of neuromuscular-skeletal pathology, under the direction of Dr. H. W. Kendell of the Department of Physical Medicine and Rehabilitation, beginning May 1, 1952.

183. Sigma Pi Sigma Cerebral Palsy Research Fund, \$1,608.33 for studies in the Department of Physical Medicine, under the direction of Dr. Frances A. Hellebrandt. (This grant was transferred from the Medical College of Virginia.)

184. American Board of Psychiatry and Neurology, \$25 to the Occupational Therapy Gift Fund and \$25 to the Anonymous Gift Fund, Department of Psychiatry.

185. American Cancer Society, Inc., New York, New York:

a. \$4,915.86 for research on cyclic organs of reproduction, under the direction of Dr. H. R. Catchpole of the Department of Pathology, for one year beginning July 1, 1951.

b. \$5,260.70 for research on chemotherapy of mouse leukemia, under the direction of Dr. Arthur Kirschbaum of the Department of Anatomy, for one year beginning July 1, 1951.

186. American Medical Association:

a. \$25 to the Physical Medicine and Rehabilitation Gift Fund.

b. \$400 for studies on the action of curarizing agents in myasthenia gravis, under the direction of Doctors C. C. Pfeiffer and K. R. W. Unna of the Department of Pharmacology, College of Medicine.

187. American Society of Heating and Ventilating Engineers, New York, New York, \$6,500 for an investigation of the physiological adjustments of human beings to sudden changes in atmospheric environment, under the supervision of Dr. F. K. Hick of the Department of Medicine, for one year beginning July 1, 1951.

188. Asthmatic Children's Aid, Chicago, \$10,000 in support of research investigative work, under the supervision of Dr. Ben Z. Rappaport of the Department of Medicine, for one year beginning July 1, 1952.

189. Cerebral Palsy Association, \$5,000 for continuation of a study on the neuropharmacologic approach to the treatment of cerebral palsy, under the direction of Dr. K. R. W. Unna of the Department of Pharmacology, College of Medicine.

190. Chicago Heart Association:

a. \$5,400 for research on the distribution of C-14 labeled salicylates in connective tissue, under the direction of Dr. Max Samter of the Department of Medicine, for one year beginning July 1, 1952.

b. \$200 for the histological examination of rat hearts for atheromatous lesions, under the direction of Dr. A. C. Ivy of the Department of Clinical Science.

c. \$7,000 for the heart and circulation exhibit at the Museum of Science and Industry in Chicago, in the Illustration Studios, under the supervision of Professor T. S. Jones.

d. \$7,875 for pathogenesis and treatment of experimental renal hypertension in dogs and monkeys, under the direction of Dr. George E. Wakerlin of the Department of Physiology, for one year beginning July 1, 1952.

191. Chicago Illinae Club, \$30 to the Occupational Therapy Gift Fund.

192. Corlett P.T.A., Cleveland, Ohio, \$5 to the Allergy Antigens Research Fund, under the direction of Dr. B. Z. Rappaport.

193. Dental Protective Association of the United States, \$5,000 for a two-year fellowship in the College of Dentistry, beginning January 1, 1952.

194. Drama Club of Evanston, \$250 for continuation of a fellowship in the Department of Orthopaedic Surgery, under the supervision of Dr. F. A. Chandler.

195. Illinois Federation of Women's Clubs, \$1,500 for tumor research, under the direction of Dr. Danely P. Slaughter of the Department of Surgery.

196. International Brotherhood of Teamsters of America, Miscellaneous Warehousemen Local 781, \$50 to the Mary Lloyd Somatoprosthesis Fund, for research under the supervision of Dr. S. D. Tylman of the College of Dentistry.

197. Kappa Alpha Theta Sorority, \$102.79 to the Orthopaedic Gift Fund for Children.

198. National Society for the Prevention of Blindness, \$1,200 for a study of the electroencephalographic changes in children with strabismus, under the direction of Dr. M. L. Stillerman of the Department of Ophthalmology.

199. Women's Auxiliary of the College of Medicine, \$135 to the Occupational Therapy Gift Fund.

200. Women's Auxiliary, Illinois Association of Chiropodists, \$25 to the Occupational Therapy Gift Fund.

201. Women of the Rotary Club of Chicago, \$1,787 to the Orthopaedic Gift Fund for Children.

202. United States Public Health Service, for support of the following research and educational programs:

a. \$1,000 for electroencephalographic findings in strabismus, under the direction of Dr. M. L. Stillerman of the Department of Ophthalmology, for one year beginning September 1, 1951 (B-98).

b. \$11,583 for establishment of a pilot physical therapy and rehabilitation curriculum, under the direction of Dr. Frances A. Hellebrandt of the Department of Physical Medicine and Rehabilitation, for one year beginning September 1, 1952 (B-230).

c. \$2,839 for a study of the cause of gastric cancer, under the supervision of Dr. A. C. Ivy of the Department of Clinical Science, for five months from April 1, 1952 (C-317-C5).

d. \$4,790 for a study to ascertain dyes which stain gastric mucosa when taken orally, under the direction of Dr. A. C. Ivy of the Department of Clinical Science, for one year beginning July 1, 1952 (C-737-C4).

e. \$14,355.75 for a study on the effects of betatron electron beam on central nervous system, under the supervision of Doctors Roger A. Harvey of the Department of Radiology and Percival Bailey of the Department of Neurology and Neurological Surgery, for six months beginning July 1, 1951 (C853-C2).

f. \$5,599.91 for a study of amino acids and protein metabolism in leukemia, under the direction of Dr. H. G. Poncher of the Department of Pediatrics, for one year beginning January 1, 1952 (C-875 C-3).

g. \$3,800 for a study of the chemical and mechanical factors which may alter the normal growth pattern of gastric mucosa, under the direction of Dr. A. C. Ivy of the Department of Clinical Science, for one year beginning November 1, 1951 (C-1110-C2).

h. \$5,412.28 for a study of neoplastic changes in the oral epithelium and supporting structures induced by radioactive materials, under the supervision of Dr. M. S. Burstone of the Division of Oral Pathology, for one year beginning November 1, 1951 (C-1373-C).

i. \$10,854 for a study of the role of amino acid metabolism in spontaneous and transplanted mouse leukemia, under the direction of Dr. H. G. Poncher of the Department of Pediatrics, for one year beginning December 1, 1951 (C-1615).

j. \$12,000 for studies on the biochemical basis for the development of resistance by mouse leukemia to folic acid antagonists, under the direction of Dr. Richard J. Winzler of the Department of Biochemistry, for one year beginning September 1, 1952 (C-1828).

k. \$4,765.22 for the continuation of the undergraduate cancer training program, under the supervision of Dr. Isaac Schour of the Department of Histology, for one year beginning April 1, 1952 (CT-663-C4).

l. \$3,191.39 for a study of facial growth, under the supervision of Dr. B. G. Sarnat of the Department of Oral and Maxillofacial Surgery, for one year beginning November 1, 1951 (D-26-C2).

m. \$540 for electromyographic analysis of certain facial muscles, including the muscles of mastication in normal and abnormal conditions in man, under the direction of Dr. C. I. Reed of the Department of Physiology, for one year beginning October 1, 1951 (6D-2877F-C).

n. \$540 for a fellowship in the Department of Bacteriology (6D-3484F).

o. \$540 for a study of the permeability of intact and carious hamster enamel to isotopes labeled compounds, under the direction of Dr. W. W. Wainwright of the Department of Dental Radiology, for one year beginning October 1, 1951 (6D-3559F).

p. \$7,041 for a study on the application of chromatographic adsorption to the extraction of some human neurotropic viruses from diagnostic material as a means of increasing the sensitivity of present isolation technics, under the direction of Dr. H. J. Shaughnessy of the Department of Public Health (E-425).

q. \$12,000 for an investigation of heat regulation of the aged and infirm, under the supervision of Dr. F. K. Hick of the Department of Medicine, for eighteen months beginning January 1, 1952.

r. \$6,220 for a study of desensitization in the eczematously sensitized animal, under the direction of Dr. Adolph Rostenberg of the Department of Dermatology, for one year beginning April 1, 1952 (G-3424).

s. \$11,734 for research on renal hemodynamics as influenced by drugs, under the direction of Dr. T. R. Sherrod of the Department of Pharmacology, for one year beginning July 1, 1952 (G-3480).

t. \$6,048 for an electronmicroscopic study of the glomerulus, especially its basement membrane in normal and nephritic mice, under the direction of Dr. Arthur Kirschbaum of the Department of Anatomy, for one year beginning April 1, 1952 (GR-3423).

u. \$3,880 for a study of the effect of thyroid hormone, adrenalcortical hormone, and high levels of blood glucose on the histologically normal pancreatic islets of rats receiving small dose of Alloxan, under the direction of Dr. Arthur Kirschbaum of the Department of Anatomy (H-102).

v. \$5,940 for a study of the nature of peripheral circulatory changes after X-radiation, by the Department of Physiology (H-135-C2).

w. \$5,913 for a study of the determination of cardiac output in the human by a capacitance method, under the direction of Dr. W. V. Whitehorn of the Department of Physiology, for one year beginning November 1, 1951 (H-205-C2).

x. \$11,789.64 for a study of the relations of cardiac work, efficiency and coronary flow, relation of cardiac output and serum osmotic pressure to sodium

and water excretion, under the direction of Dr. S. H. Armstrong of the Rush Department of Medicine of Presbyterian Hospital, for one year beginning September 16, 1951 (H-404-C2).

y. \$3,999 for the continuation of a study on sensitization mechanism in rheumatic fever, under the supervision of Dr. H. G. Poncher of the Department of Pediatrics, for one year beginning October 1, 1950 (H-411C).

z. \$7,992 for the continuation of a study on vascular permeability as affected by changes in blood oxygen and carbon dioxide tensions, under the direction of Dr. A. A. Schiller of the Department of Physiology, for one year beginning September 16, 1951 (H-425-C2).

aa. \$20,000 for a study of the pathogenesis and treatment of experimental renal hypertension, neurogenic hypertension, and experimental malignant hypertension, under the supervision of Dr. G. E. Wakerlin of the Department of Physiology, for one year beginning September 16, 1951 (H-428-C2).

bb. \$7,854.21 for a study of the isolation and characterization of cardiac myofibrils, under the direction of Dr. George M. Hass of the Department of Pathology, for one year beginning September 16, 1951 (H-429-C2).

cc. \$1,620 for a study of the influence of environmental factors on capillary circulation in normal and diseased subjects (animals and man), under the direction of Dr. A. J. Nedzel of the Department of Pathology, for one year beginning January 1, 1952 (H-453-C2).

dd. \$3,240 for a study of gastro-duodenal pH motility changes, as influenced by hypertension, under the supervision of Dr. F. T. Maher of the Department of Pharmacognosy and Pharmacology, for one year beginning September 1, 1952 (H-1259).

ee. \$14,000 for the continuation of cardiovascular teaching program, under the direction of Dr. S. W. Olson of the College of Medicine, for one year beginning September 1, 1951 (HT-300-C2).

ff. \$7,000 for studies under the direction of Dr. C. W. Vermeulen of the Department of Surgery, for one year from July 1, 1952 (RG-2183-C2).

gg. \$7,020 for a study of the site of action in the central nervous system of drugs useful in spastic conditions, under the direction of Dr. K. R. W. Unna of the Department of Pharmacology, College of Medicine, for one year beginning April 1, 1952 (B-28-C2).

hh. \$5,446 for studies of nutrition-gastrectomy under the direction of Doctors Warren H. Cole and T. C. Everson of the Department of Surgery, for one year beginning September 1, 1952.

*Total, Funds Received from Private Industries, Foundations,
Other Organizations, and Governmental Agencies for Research
and Graduate Study.....\$543,382.93*

B. Funds Received from Individuals

203. Alumni donors (anonymous):

a. \$600 to the Patrick and Bertha Mooney Scholarship Fund.

b. \$100 for research in the Department of Anatomy.

c. \$100 for improvement in teaching methods in Department of Anatomy.

204. Anonymous donor, \$35 to the Occupational Therapy Gift Fund.

205. Mr. W. R. Barker, Chicago, \$1,000 for research on the chemical basis of epilepsy, under the supervision of Dr. F. A. Gibbs, for one year beginning January 1, 1952. (This is Mr. Barker's third annual contribution to this project.)

206. Berkelhamer Family, \$100 for the annual Dr. Ralph C. Berkelhamer Scholarship award (started in 1946).

207. Mr. Howard B. Bishop, Humanic Brands, Inc., Summit, New Jersey, \$3,110 for a comparative study of protein supplements as to consumer acceptance, under the supervision of Dr. Franklin Dove, from December 10, 1951, through June 30, 1952.

208. Dr. Fremont A. Chandler, \$10 to the Orthopaedic Gift Fund for Children.

209. Dr. Ward Eastman, \$50 to the Department of Surgery.

210. Dr. J. D. Farrington, \$100 to the Orthopaedic Surgery Alumni Travel Fund.

211. Dr. T. A. Fox, \$50 to the Orthopaedic Surgery Alumni Travel Fund.

212. Mrs. Charles Grosberg, \$15 to the Occupational Therapy Gift Fund.
213. Mrs. Lena Holtzman, in memory of her son, Jack Holtzman, \$500 for research on tumors of the central nervous system, under the direction of Doctors Percival Bailey and Arthur Arnold of the Department of Neurology and Neurological Surgery.
214. The Della M. Lazier Family, in memory of Paul L. Lazier, \$100 to the Anonymous Clinical Science Gift Fund, under the direction of Dr. A. C. Ivy.
215. Dr. John A. Lowe, Mobridge, South Dakota, \$100 to the Pediatrics Gift Fund.
216. Mr. William Maloney, \$5 to the Department of Clinical Science.
217. Mr. Charles G. Middleton, Louisville, Kentucky, \$10 to the Department of Otolaryngology.
218. Dr. Leo F. Miller, \$50 for annual awards to junior medical students.
219. New York Alumni of the College of Dentistry, in memory of Dr. M. B. Rubin, deceased, \$200 to the College of Dentistry.
220. Dr. H. G. Poncher, \$75 to the Travel Fund of the Department of Pediatrics.
221. Men's Club of Sinai, \$50 to the Anonymous Clinical Science Gift Fund.
222. Dr. H. E. Turner, \$100 to the Orthopaedic Surgery Alumni Travel Fund.
223. Mr. Victor S. Yarros, \$300 to the Rachelle S. Yarros Scholarship Fund.
- Total, Funds Received from Individuals.....\$6,760.00*
- C. Gifts of Equipment or of Funds for the Same*
224. Allen Memorial Fund Organization, \$583.25 for the purchase of books for the Quine Library of Medical Sciences.
225. Rachel Roach Memorial Fund, \$44.66 for the purchase of books for the children's school library in the Department of Orthopaedic Surgery.
226. Westinghouse Electric Corporation, Chicago, an artificial kidney unit and accessories for the Department of Medicine.
227. WLS Prairie Farmer Christmas Neighbor's Club, an adult orthopaedic walker.
228. Women of the Rotary Club of Chicago, \$419.57 for a television set and table, nursery tables and chairs for the Department of Orthopaedic Surgery.
- Total, Gifts of Equipment or of Funds for the Same.....\$1,047.48*
- Total, Chicago Professional Colleges.....\$551,190.41*
- Grand Total.....\$1,204,569.83*

This report was received for record.

SETTLEMENT WITH AMERICAN CASUALTY COMPANY UNDER CONTRACT PERFORMANCE BOND OF BDN STEEL ERECTING COMPANY

The Legal Counsel presented the following report.

At its January 21, 1953, meeting, the Board of Trustees declared BDN Steel Erecting Company in default with respect to its contract for the erection of a steel radio tower with antenna and other equipment at Robert Allerton Park, Illinois, and authorized the Comptroller and Legal Counsel to take steps to enforce the University's rights under the performance bond given by BDN Steel Erecting Company, as principal, and American Casualty Company of Reading, Pennsylvania, as surety, as a result of the principal's default.

The amount of that bond was \$12,600. Shortly after BDN Steel Erecting Company began work under the contract, it was paid \$2,000 on account by the University. This was done without giving notice to the surety company and securing its consent to the payment, and the surety company contends that it was prejudiced by this action and that this payment either released it entirely from its liability under the bond or reduced that liability to the extent of the payment. Subsequently, and with the surety's consent, the University paid the contractor an additional \$5,862.96 for work done by it under the contract.

Negotiations with the attorney for the surety company have resulted in an assurance by him that he will recommend that the surety company pay the University \$10,600 in full settlement and satisfaction of the surety's liability to the

University under the bond if he is given an assurance that the University will accept that sum upon such basis. Because of the unauthorized \$2,000 payment, this settlement, if made, will be upon the condition, however, that if it costs the University less than \$15,337.04 to complete the work, the University will refund to the bonding company the difference between that sum and the actual cost of completion. Since estimates which the University has received for the completion of the work considerably exceed that sum, it appears very unlikely that accepting this condition would result in the making of any refund to the surety company.

The Comptroller and Legal Counsel recommend that the acceptance of said sum from the surety company in full settlement and satisfaction of the latter's liability to the University under the bond upon the foregoing condition be authorized, and that the Comptroller and Secretary be authorized to execute a release of the surety company, in a form approved by the Legal Counsel, upon the payment of said sum by the surety company to the University.

On motion of Mr. Hickman, the settlement with the American Casualty Company upon the recommended basis was authorized, and the Comptroller and Secretary were granted the authority requested.

RESOLUTION ON DR. A. C. IVY

Mr. Nickell presented three versions of a resolution on the services of Dr. Andrew C. Ivy, these being revisions of a resolution he had offered at the Board meeting on December 22, 1952 (Minutes, pages 493 and 499), and on which action was deferred. Copies of the resolution were distributed and one set was given to the Secretary of the Board for record.

On motion of Mr. Johnston, the resolution was tabled by the following vote: Aye, Mr. Herrick, Mr. Hickman, Mr. Johnston; no, Mr. Livingston, Mr. Nickell; not voting, Mrs. Watkins.

President Livingston expressed the hope that at a later date a suitable resolution on Dr. Ivy would be adopted. Mr. Hickman endorsed this suggestion, stating that he had no doubt an appropriate resolution would be favorably considered at the proper time.

EXECUTIVE SESSION

At this point the Board convened in executive session to consider the following reports and recommendations from the President of the University.

PATENTABLE DISCOVERIES

(19) The University Patent Committee submits the following recommendations relating to potentially patentable discoveries, and I concur:

John Bardeen, Professor, and Harry Letaw, Jr., Research Associate, both in Electrical Engineering, have perfected an electrolytic transistor and Professor Bardeen has discovered a constant current source method for utilizing the transistor. In the judgment of the Dean of the College of Engineering and the Head of the Department of Electrical Engineering, both the invention and the discovery are basic in the very important field of electronics and have excellent commercial possibilities. The University Patent Committee recommends that the University's interest be released to the University of Illinois Foundation with the request that the Foundation immediately apply for patents.

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

H. M. Von Foerster, Professor of Electrical Engineering, has developed a lossless RF peak power meter as a result of research work under contract with the United States Navy. In the opinion of the Patent Committee the commercial possibilities of this discovery would not justify the expenditure of funds to acquire a patent. The Committee therefore recommends the release of this invention to the Navy.

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

BIENNIAL BUDGET FOR 1953-1955

(20) President Stoddard recommended that the Governor and the Illinois Budgetary Commission be approached on the question of asking the General Assembly of Illinois to make appropriations to the University for the construction of such buildings as the Veterinary Medicine Clinic and the Home Economics Building by assignments from the surplus in the Agricultural Premium Fund.

This fund was the source of \$5,000,000 in appropriations made to the University for 1949-1951 for the construction of the Animal Sciences Laboratory, the Veterinary Medicine Building, other agricultural structures and remodeling of existing agricultural buildings and the extension of utilities services to the new buildings.

The Board gave general assent to this proposal but no formal action was taken since the President of the Board and the President of the University already have authority to present such proposals to the Illinois Budgetary Commission and other state officials.

RECOGNITION OF RETIRING MEMBERS OF THE ACADEMIC STAFF

Pursuant to the proposal made by Mrs. Watkins at the meeting of the Board of Trustees on May 26, 1952, the Secretary presented a certificate designed to give members of the academic staff when they retire a formal expression of appreciation by the Board of Trustees of their services to the University.

On motion of Mrs. Watkins, the certificate was approved.

DEATH OF DR. JAMES G. RANDALL

President Stoddard informed the Board of the death on February 20, 1953, of Dr. James G. Randall, Professor of History, *Emeritus*. Professor Randall served the University with distinction from 1920 until his retirement in 1949. He was a distinguished scholar and writer on the life and works of Abraham Lincoln.

The Secretary was asked to send Mrs. Randall an expression of the Board's sympathy and appreciation.

EASEMENT OVER TRELEASE WOODS

The Secretary presented the following report of the Executive Committee.

The Board of Trustees on December 22, 1952 (Minutes, pages 493 to 494), referred to the Executive Committee with power to act a request from the Illinois Power Company for a right-of-way easement for a new power line across a portion of the Trelease Woods.

The question which had been raised regarding the construction of the power line in this area has now been resolved satisfactorily to all parties concerned. The Executive Committee has, therefore, granted the right-of-way easement requested by the Illinois Power Company, subject to approval of the easement by the University's Legal Counsel.

A. J. JANATA
Clerk

HERBERT B. MEGAN
FRANCES B. WATKINS
PARK LIVINGSTON, *Chairman*
The Executive Committee

SECRETARY'S REPORTS

The Secretary presented for record the following lists: (1) appointments made by the President; (2) graduate fellows; (3) resignations, declinations, and terminations; (4) retirements; (5) leaves of absence.

APPOINTMENTS MADE BY THE PRESIDENT

(The date in parenthesis is the date on which the appointment was made by the President of the University. C = College; S = Station; E = Extension.)

- ALEXANDER, CHARLES S., Instructor in Geography, for the academic year beginning September 1, 1953, \$4250 (2-3-53).
- AUSTIN, JAMES O., JR., Research Associate in the Control Systems Laboratory, seven months beginning February 1, 1953, \$4800 a year, supersedes (2-4-53).
- BELOFF, JOSEPH R., Research Assistant in Psychology, in the Graduate College, seven months beginning February 1, 1953, \$300 a month, supersedes (1-16-53).
- BLUM, ELEANOR, Journalism Librarian, with rank of Instructor, in the Library, six months beginning March 1, 1953, \$4500 a year, supersedes (1-29-53).
- BOEHNING, ROBERT H., Research Assistant in Civil Engineering (S), February 1-June 15, 1953, \$300 a month, supersedes (2-9-53).
- BOGGS, ROY E., Assistant in Anesthesiology, in the College of Medicine, four months beginning March 1, 1953, without salary (2-3-53).
- BRISCOE, JOHN W., Instructor in Civil Engineering, seven months beginning February 1, 1953, to render service during the academic year, \$4800 a year, supersedes (1-16-53).
- BROCKBANK, WALLACE R., Clinical Instructor in Psychiatry, in the College of Medicine, seven months beginning February 1, 1953, without salary (2-11-53).
- BROWNE, ROBERT B., Professor of Education, on indefinite tenure, Dean of the Summer Session, on three-tenths time, and Dean of the Division of University Extension, on seven-tenths time, one year beginning September 1, 1952, \$11,500, supersedes (1-19-53).
- BUENGER, RICHARD E., Clinical Instructor in Radiology (Rush), in the College of Medicine, July 1, 1952-August 31, 1953, without salary (2-3-53).
- BUSH, ELIZABETH T., Research Assistant in the Aeromedical and Physical Environment Laboratory, eight months beginning January 1, 1953, \$4800 a year (1-16-53).
- BUTLER, MRS. ELSIE R., Instructor in Home Economics 4-H Club Work (Home Economics) (E), February 9-August 31, 1953, \$5000 a year (2-11-53).
- CRABINE, ELLIOTT M., Instructor in Dairy Production (Dairy Science) (C and S), six months beginning March 1, 1953, \$4250 a year, supersedes (1-26-53).
- CURTIN, CONSTANCE O., Research Assistant in Chemistry, in the Graduate College, five months beginning February 1, 1953, \$300 a month (2-9-53).
- CURTIN, JOHN W., Clinical Assistant in Surgery, in the College of Medicine, seven months beginning February 1, 1953, without salary (2-11-53).
- DAVIS, GILBERT, Research Assistant in Sociology, in the Graduate College, seven months beginning February 1, 1953, \$3780 a year (1-23-53).
- DE PASQUALI, GIOVANNI, Research Assistant in Physics (C), seven months beginning February 1, 1953, \$4200 a year (1-19-53).
- DICKASON, DONALD E., Director of Nonacademic Personnel, one year beginning September 1, 1952, \$11,000, supersedes (2-4-53).
- DUNN, FLOYD, Research Assistant in Electrical Engineering (S), seven months beginning February 1, 1953, \$5000 a year, supersedes (1-19-53).
- DUST, ALVIN I., Assistant in English, December 13, 1952-June 15, 1953, \$266.66 a month (1-16-53).
- ERTL, JOHN, Assistant in Surgery (Rush), in the College of Medicine, for seven months beginning February 1, 1953, without salary (2-3-53).
- EVANS, ROBLEY D., Assistant in Physiology, in the Graduate College, February 1-June 15, 1953, \$333.33 a month, supersedes (2-11-53).
- FAGAN, GEORGE E., Clinical Assistant in Obstetrics and Gynecology, in the College of Medicine, eight months beginning January 1, 1953, without salary (2-3-53).
- FARBER, HERBERT O., Assistant Comptroller, one year beginning September 1, 1952, \$9000, supersedes (1-19-53).
- FIELDS, WILLIAM H., JR., Special Assistant to the Provost, and Business Manager of the Control Systems Laboratory, with the rank of Assistant Professor, seven months beginning February 1, 1953, \$11,000 a year, supersedes (1-26-53).

- GILL, STANLEY, Visiting Assistant Professor of Mathematics, Digital Computer Laboratory, in the Graduate College, nine months beginning September 16, 1953, \$5500 for the period (2-16-53).
- GOVOSTIS, MICHAEL C., Clinical Instructor in Surgery, in the College of Medicine, seven months beginning February 1, 1953, without salary (1-20-53).
- GREENBERG, RUVEN, Assistant Professor of Physiology, in the College of Medicine, seven months beginning February 1, 1953, to render service during the academic year, \$6300 a year (1-15-53).
- GREENING, GERSHOM K., Clinical Assistant in Medicine, in the College of Medicine, seven months beginning February 1, 1953, without salary (2-11-53).
- GROVE, WILLIAM J., Assistant Professor of Surgery, in the College of Medicine, on 90/100 time, eight months beginning January 1, 1953, \$6000 a year, supersedes (1-20-53).
- GUMBINER, STANLEY H., Clinical Assistant Professor of Medicine, in the College of Medicine, seven months beginning February 1, 1953, without salary (2-4-53).
- HANSEN, ROBERT C., Research Associate in Electrical Engineering (S), on one-half time, seven months beginning February 1, 1953, \$2500 a year, supersedes (1-19-53).
- HARTMAN, CHARLES F., Clinical Instructor in Medicine (Rush), seven months beginning February 1, 1953, without salary (2-3-53).
- HATFIELD, EFTON E., Instructor in Animal Science (C and S), on three-fourths time, seven months beginning February 1, 1953, \$3750 a year (1-19-53).
- HAVENS, CHARLES S., Director of Physical Plant Department, one year beginning September 1, 1952, \$12,000, supersedes (1-19-53).
- HAZLETON, HOWARD A., Business Manager of the Chicago Colleges and Divisions, one year beginning September 1, 1952, \$11,000, supersedes (1-19-53).
- HOUSE, ARTHUR S., Research Associate in the Control Systems Laboratory, five months beginning February 1, 1953, \$5200 a year (2-4-53).
- HUNTER, HARRY L., Clinical Instructor in Medicine, in the College of Medicine, eight months beginning January 1, 1953, without salary (1-19-53).
- HYDE, JOHN S., Clinical Instructor in Pediatrics, in the College of Medicine, on one-third time, eight months beginning January 1, 1953, \$1200 a year, supersedes (1-26-53).
- JACKSON, GEORGE G., Assistant Professor of Medicine and Preventive Medicine, in the College of Medicine, January 15-August 31, 1953, \$8500 a year, supersedes (2-4-53).
- JAN, JEAN-PIERRE, Research Associate in Physics (C), seven months beginning February 1, 1953, \$4800 a year (2-9-53).
- JOHNSON, FERNLY E., Clinical Assistant in Surgery, in the College of Medicine, seven months beginning February 1, 1953, without salary (2-3-53).
- JOHNSON, VERNON S., Assistant in Physical Education for Men, in the Chicago Undergraduate Division, February 1-June 15, 1953, \$333.33 a month; in addition to \$25 a month paid from Student Athletic Activities (2-3-53).
- JOLLY, WILLIAM L., Visiting Research Associate in Chemistry, in the Graduate College, two months beginning July 1, 1953, \$500 a month (2-5-53).
- KAELL, HARRY I., Instructor in Anatomy, in the College of Medicine, eight months beginning January 1, 1953, without salary (1-26-53).
- KAISER, GEORGE D., Assistant Professor of Surgery, in the College of Medicine, on 35/100 time, eight months beginning January 1, 1953, \$2650 a year, supersedes (1-20-53).
- KING, CHARLES, Research Assistant in Chemistry, in the Graduate College, seven months beginning February 1, 1953, \$5000 a year, supersedes (1-26-53).
- KINNEY, JANET R., Clinical Assistant Professor of Medicine, in the College of Medicine, seven months beginning February 1, 1953, without salary (2-4-53).
- KLEINBERG, JACOB, Visiting Research Professor of Chemistry, in the Graduate College, June 15-August 31, 1953, \$700 a month (2-4-53).
- LANE, MALCOLM D., Assistant in Animal Science (S), on full time, April 1-June 15, 1953, \$3000 a year, and on one-half time, June 16-August 31, 1953, \$1500 a year (2-9-53).
- LAVELLE, FAITH, Instructor in Anatomy, in the College of Medicine, three months beginning January 1, 1953, \$300 a month (1-16-53).

- LAWSON, LAWRENCE J., JR., Assistant in Ophthalmology, in the College of Medicine, six months beginning January 1, 1953, without salary (1-29-53).
- LEE, BRUCE D., Clinical Instructor in Medicine, in the College of Medicine, seven months beginning February 1, 1953, without salary (2-3-53).
- LEE, TSUNG DAO, Research Associate in Physics (C), four months beginning April 15, 1953, \$500 a month (2-3-53).
- LENG, EARL R., Assistant Professor of Plant Genetics (Agronomy) (C and S), December 17, 1952-August 31, 1953, \$5920 a year, supersedes (1-30-53).
- MARINO, JOHN J., Clinical Assistant in Pediatrics (Rush), in the College of Medicine, one year beginning September 1, 1952, without salary (2-3-53).
- MASSARD, JAMES M., Research Associate in Civil Engineering (S), on three-fourths time, seven months beginning February 1, 1953, \$3150 a year, supersedes (2-11-53).
- MATTHIENEN, RALPH B., Research Assistant in Civil Engineering (S), February 1-June 15, 1953, \$300 a month, supersedes (2-9-53).
- MCGHEE, JAMES R., Instructor in Architecture, February 1-July 31, 1953, to render service during the second semester of the academic year, \$3660 a year, supersedes (2-3-53).
- MONTGOMERY, LOREN N., Research Associate in Mechanical Engineering (S), seven months beginning February 1, 1953, \$3900 a year, supersedes (1-23-53).
- MUELLER, ALLAN G., Assistant in Farm Management (Agricultural Economics) (S), one year beginning September 1, 1952, \$5200, supersedes (1-14-53).
- MULLER, DAVID E., Research Assistant Professor of Applied Mathematics, Digital Computer Laboratory, in the Graduate College, one year beginning September 1, 1953, \$6600 (2-16-53).
- MUNTZ, JAMES H., Assistant in Soil Fertility (Agronomy) (S), February 9-August 31, 1953, \$3600 a year (2-9-53).
- MYSIAK, EUGENE J., Instructor in General Engineering Drawing, in the Chicago Undergraduate Division, for the second semester of 1952-1953, \$2100 (1-29-53).
- NOLAN, KENNETH S., Clinical Instructor in Pediatrics, in the College of Medicine, on one-third time, eight months beginning January 1, 1953, \$1200 a year (2-3-53).
- PASTNACK, GEORGE L., Clinical Assistant in Surgery, in the College of Medicine, seven months beginning February 1, 1953, without salary (2-3-53).
- PERLMAN, LAWRENCE, Clinical Assistant Professor of Medicine, in the College of Medicine, seven months beginning February 1, 1953, without salary (2-4-53).
- PLUMMER, JEWEL I., Instructor in Anatomy, in the College of Medicine, eight months beginning January 1, 1953, \$4500 a year (1-19-53).
- POLNIASZEK, MILDRED J., Clinical Assistant in Pediatrics, in the College of Medicine, eight months beginning January 1, 1953, without salary (1-26-53).
- RUST, RICHARD H., First Assistant in Soil Physics (Agronomy) (S), on three-fourths time, four months beginning February 16, 1953, \$3375 a year, and on full time June 16-August 31, 1953, \$4500 a year, supersedes (2-11-53).
- SAILOR, DANTON B., Research Assistant in Economics, in the Graduate College, six months beginning January 1, 1953, \$270 a month (1-16-53).
- SANDSTROM, GLENN A., Assistant in English, February 1-June 15, 1953, \$1290 (2-7-53).
- SCHOENBERGER, JAMES A., Assistant Professor of Medicine, in the College of Medicine, on three-fourths time, January 15-August 31, 1953, \$4875 a year, supersedes (1-20-53).
- SCHOOLEY, FRANK E., Director of the Kellogg Radio Project, in the Division of Communications, four months beginning February 1, 1953, \$191.66 a month; this is in addition to his present appointment (2-4-53).
- SCOTT, MARSHALL J., Assistant to the Dean of the College of Agriculture, with the rank of Assistant Professor, six months beginning March 1, 1953, \$3500 for the period (2-7-53).
- SHAPIRO, DAVID, Research Assistant in Chemistry, in the Graduate College, nine months beginning January 1, 1953, \$500 a month (1-16-53).
- SHIMA, ARTHUR T., Clinical Instructor in Anesthesiology, in the College of Medicine, seven months beginning February 1, 1953, without salary (2-3-53).
- SLOAN, WILLIAM, Research Associate in the Institute for Research on Exceptional Children, seven months beginning February 1, 1953, without salary (1-14-53).

- SMEJKAL, WALTER F., Clinical Instructor in Surgery, in the College of Medicine, seven months beginning February 1, 1953, without salary (1-29-53).
- SMITH, RICHARD G., Circulation Assistant in the Library, February 9-August 31, 1953, \$3400 a year (2-3-53).
- SNOWDEN, MARY L., Research Assistant in the Institute of Communications Research, February 1-June 15, 1953, \$333.33 a month (2-9-53).
- SPARKS, CLAUD G., Assistant Reference Librarian, with rank of Instructor, in the Library, seven months beginning February 1, 1953, \$3700 a year, supersedes (1-26-53).
- SPIEGEL, MANUEL, Clinical Instructor in Obstetrics and Gynecology, in the College of Medicine, seven months beginning February 1, 1953, without salary (2-11-53).
- STALEY, SEWARD C., Professor of Physical Education for Men and Head of the Department, on indefinite tenure, and Director of the School of Physical Education, one year beginning September 1, 1952, \$11,500, supersedes (1-19-53).
- STICE, GLEN F., Research Associate in Psychology, in the Graduate College, five months beginning January 1, 1953, \$458.33 a month (1-16-53).
- THOMAS, NORMAN W., Research Assistant in Chemistry, in the Graduate College, four months beginning March 1, 1953, \$4500 a year (2-5-53).
- THORNBURN, THOMAS H., Research Associate Professor of Civil Engineering (C), on one-half time, to render service during each academic year, and in the Engineering Experiment Station, on one-half time, on Y basis, on indefinite tenure beginning March 1, 1953, \$6850 a year, supersedes (2-4-53).
- THURBER, RICHARD M., Instructor in German, six months beginning February 1, 1953, to render service during the second semester of the academic year, \$3300 a year (1-23-53).
- TUCKER, DON, Research Assistant in Electrical Engineering (S), seven months beginning February 1, 1953, \$5000 a year, supersedes (1-19-53).
- TURNER, FRED H., Dean of Students, one year beginning September 1, 1952, \$11,000, supersedes (1-19-53).
- TUTTLE, GEORGE P., Director of Admissions and Records, one year beginning September 1, 1952, \$11,000, supersedes (1-19-53).
- VERMEULEN, CORNELIUS W., Associate Professor of Surgery, in the College of Medicine, on seven-tenths time, eight months beginning January 1, 1953, \$5800 a year, supersedes (1-20-53).
- VICHER, EDWARD E., Assistant Professor of Bacteriology, in the College of Medicine, on 85/100 time, eight months beginning January 1, 1953, to render service during the academic year, \$3825 a year, supersedes (1-17-53).
- VOSE, DORIS F., Instructor in the Institute of Labor and Industrial Relations, on two-thirds time, January 15-May 15, 1953, \$260 a month (1-26-53).
- WEBER, EVELYN J., Research Assistant in Chemistry, in the Graduate College, seven months beginning February 1, 1953, \$275 a month, supersedes (1-17-53).
- WELKOWITZ, WALTER, Research Associate in Electrical Engineering (S), seven months beginning February 1, 1953, \$4900 a year, supersedes (1-19-53).
- YELLEN, HARRY J., Clinical Assistant Professor of Medicine, in the College of Medicine, seven months beginning February 1, 1953, without salary (2-4-53).
- YOUNG, QUENTIN D., Clinical Assistant in Medicine, in the College of Medicine, seven months beginning February 1, 1953, without salary (2-11-53).
- ZELENY, CHARLES E., Research Assistant in Psychology, in the Graduate College, seven months beginning February 1, 1953, \$4200 a year (2-5-53).
- ZUMMO, BRUCE P., Clinical Assistant in Obstetrics and Gynecology, in the College of Medicine, seven months beginning February 1, 1953, without salary (2-11-53).

GRADUATE FELLOWS

- BERT, MARCELO H., Wright Fellow in Animal Nutrition, two months beginning February 16, 1953, \$111.11 a month (2-10-53).
- BOLOTEN, MARTIN, Fellow in Physics, nine months beginning September 16, 1952, \$900, supersedes (1-15-53).
- JACOBSON, ALEXANDER, Fellow in Orthodontia, five months beginning February 1, 1953, \$150 a month (2-9-53).
- KAHLE, KEITH A., Wright and Booth Fellow in Agricultural Economics, February 1-June 15, 1953, \$400 (2-3-53).

- PRINTY, GLENN E., Swift and Company Fellow in Entomology, February 1-June 15, 1953, \$133.33 a month (1-28-53).
SADOFF, HAROLD L., National Yeast Corporation Fellow in Bacteriology, February 1-June 15, 1953, \$750 (1-14-53).

RESIGNATIONS, DECLINATIONS, AND TERMINATIONS

- AMSBARY, GEORGE S., Editor, with rank of Assistant Professor, in the University Press—resignation effective 3-1-53.
BAER, ROBERT M., Research Associate in the Control Systems Laboratory—resignation effective 2-1-53.
BALDWIN, CHARLES L., Research Assistant in Psychology—resignation effective 1-28-53.
BIEGEL, ALBERT C., Assistant Professor of Ophthalmology, in the College of Medicine—resignation effective 2-1-53.
BLACK, RICHARD D., Wright Fellow in Agricultural Engineering—resignation effective 2-1-53.
BURNS, DONALD J., Research Assistant in the Institute of Communications Research—resignation effective 2-1-53.
CACCAMISE, WILLIAM C., Assistant in Ophthalmology, in the College of Medicine—resignation effective 1-1-53.
CLUNE, HATTIE L., Instructor in Medical Social Work, in the College of Medicine—resignation effective 1-15-53.
COMPALL, THEODORE C., Assistant in Anatomy, in the College of Medicine—resignation effective 9-1-52.
CORCORAN, ADRIAN, Instructor in Social Sciences, in the Chicago Undergraduate Division—resignation effective 3-1-53.
DICKEY, DONALD E., Research Assistant in the Institute of Government and Public Affairs—resignation effective 2-1-53.
DICKINSON, PHILIP H., Instructor in Orthopaedic Surgery, in the College of Medicine—termination effective 1-1-53.
HINDERLITER, HOBART R., Fellow in Agricultural Education—resignation effective 2-1-53.
HINTERMEISTER, DAVID A., Instructor in Dairy Production (Dairy Science) (C and S)—resignation effective 2-21-53.
HOGNESTAD, EIVIND, Research Associate Professor of Theoretical and Applied Mechanics (S)—resignation effective 6-1-53.
JANKOWICZ, GERALD W., Assistant in Psychiatry, in the College of Medicine—resignation effective 2-1-53.
LEVY, EDWARD R., Assistant in English—resignation effective 2-1-53.
LYKETSOS, GEORGE, Clinical Assistant in Neurology and Neurological Surgery, in the College of Medicine—resignation effective 10-31-52.
LYONS, JEROME C., First Assistant in Soil Fertility (Agronomy) (S)—resignation effective 2-1-53.
MACKIN, MRS. MARTHA H., Instructor in Physical Sciences, in the Chicago Undergraduate Division—resignation effective 3-1-53.
MANGALINDAN, ENRIQUE L., Assistant in Physical Medicine and Rehabilitation, in the College of Medicine—resignation effective 12-1-52.
MILES, JAMES S., Manager of the Kellogg Radio Project, in the Division of Communications—resignation effective 2-1-53.
MOOREFIELD, HERBERT H., Fellow in Entomology—resignation effective 2-1-53.
MYERS, WILLIAM M., Fellow in Physics—resignation effective 2-1-53.
RAYMOND, RICHARD L., Research Assistant in Bacteriology—resignation effective 2-16-53.
REICKERT, FREDERICK A., Associate Professor of Civil Engineering—resignation effective 2-1-53.
SADDLER, MRS. VIRGINIA B., Journalism Librarian, with rank of Instructor—resignation effective 3-17-53.
SCOTT, JOHN T., JR., Fellow in Agronomy—resignation effective 2-1-53.
SHOWELL, JOHN S., Research Assistant in Chemistry—resignation effective 2-1-53.
TATAROWICZ, BEN J., Instructor in Anatomy, in the College of Medicine—resignation effective 9-1-52.

WERBEL, LESLIE M., Minnesota Mining and Manufacturing Company Fellow in Chemistry — resignation effective 2-1-53.

WILKERSON, LOWELL E., Flight Instructor in the Institute of Aviation — resignation effective 2-23-53.

WU, WEN-SHAO, Fellow in Mechanical Engineering — declination effective 2-1-53.

RETIREMENTS

SOMERS, LEE A., Assistant Professor of Horticulture, *Emeritus*, retirement effective 3-1-53.

LEAVES OF ABSENCE

CHEW, GEOFFREY F., Associate Professor of Physics (C) — cancellation of leave of absence for the second semester of 1952-1953.

PRACYK, JOHN A., Instructor in the Admitting Clinic, in the College of Dentistry — leave of absence from January 1 through August 31, 1953, without salary, for military service.

READ, HADLEY, Assistant Professor of Agricultural Extension (C) and Extension Editor in the Extension Service in Agriculture and Home Economics — additional leave of absence without pay to June 1, 1953.

WILCOCK, RICHARD C., Assistant Professor of Labor and Industrial Relations — leave of absence for one month with pay, to be combined with his vacation allowance of one month, June 22 through August 14, 1953.

DEGREES CONFERRED IN FEBRUARY, 1953

The Secretary presented for record the following list of degrees conferred at Urbana on February 15, 1953.

Summary

Honorary Degree:

Doctor of Letters.....	1
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Degrees in the Graduate College:

Doctor of Philosophy.....	48
Doctor of Education.....	5
Master of Arts.....	27
Master of Science.....	114
Master of Music.....	1
Master of Education.....	24
<i>Total, Graduate College.....</i>	<i>219</i>

Degrees in Law:

Bachelor of Science.....	1
Bachelor of Laws.....	25
<i>Total, Law</i>	<i>26</i>

Baccalaureate Degrees:

Bachelor of Science, College of Agriculture.....	64
Bachelor of Science, College of Engineering.....	135
Bachelor of Arts, College of Liberal Arts and Sciences.....	85
Bachelor of Science, College of Liberal Arts and Sciences.....	68
Bachelor of Science, College of Education.....	36
Bachelor of Science, College of Commerce and Business Administration..	116
Bachelor of Science, School of Journalism and Communications.....	23
Bachelor of Science, College of Fine and Applied Arts.....	46
Bachelor of Fine Arts, College of Fine and Applied Arts.....	8
Bachelor of Music, College of Fine and Applied Arts.....	1
Bachelor of Science, School of Physical Education.....	30
Bachelor of Science, Division of Special Services for War Veterans.....	25
<i>Total, Baccalaureate Degrees.....</i>	<i>637</i>

<i>Total, Degrees Conferred.....</i>	<i>883</i>
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HONORARY DEGREE

Degree of Doctor of Letters

(Conferred at a special ceremony on February 16, 1953)

CARL SANDBURG

GRADUATE COLLEGE

Degree of Doctor of Philosophy

In Accountancy

GERALD DAVID BRIGHTON, B.S., M.S., 1941, 1947

In Agronomy

GEORGE SAMUEL COOPER, B.S., M.S., University of Alberta, 1949, 1951

CARL GRAY, B.S., M.S., Kansas State College, 1943, 1947

DARREL LUVENE LYNCH, B.S., M.S., 1947, 1948

In Animal Nutrition

KENNETH WILLIAM KEANE, B.S., Murray State College, 1944; M.S., 1951

OSMAN SHEHATA, B.S., Fouad First University, 1938; M.S., 1947

In Animal Science

JOHN WEBER ALEXANDER BRANT, B.S.A., University of British Columbia, 1949; M.S., University of Connecticut, 1951

PAUL BRECKENRIDGE STARKS, B.S., Western Kentucky State Teachers College, 1941; M.S., University of Kentucky, 1947

In Business

PRESTON PAUL LE BRETON, B.S., M.B.A., Louisiana State University, 1947, 1949

In Chemical Engineering

JAMES DEHAVEN BATCHELOR, B.Ch.E., University of Virginia, 1948; M.S., 1950

JAMES ELI KNAP, B.S., University of Colorado, 1949; M.S., 1951

ROBERT ELWOOD WILSON, A.B., B.S., 1948, 1949; M.S., University of Minnesota, 1950

DONALD WILBUR WOOD, A.B., B.S., 1948, 1949; M.S., Massachusetts Institute of Technology, 1950

In Chemistry

JAMES WESLEY BERRY, A.B., Augustana College, 1949

PETER BLISS HILL, B.S., M.S., University of Delaware, 1948, 1949

PERRY ROSS KIPPUR, B.S., M.S., University of Denver, 1949, 1950

ERNEST HERBERT LYONS, JR., B.S., Massachusetts Institute of Technology, 1931; M.S., California Institute of Technology, 1933

GEORGE HOWARD MCCAIN, A.B., Franklin College, 1949; M.S., 1950

PAUL SEWARD MCKITTRICK, A.B., Princeton University, 1947; M.S., 1949

LESTER RUSSELL MELBY, B.S., M.S., University of Alberta, 1948, 1950

LEON HERBERT MEYER, B.Ch.E., M.S., Georgia Institute of Technology, 1949, 1951

WILLIAM JOSEPH MIDDLETON, B.S., M.S., North Texas State College, 1948, 1949

DONALD GABRIEL MILLER, B.S., University of California, 1949

MARTIN LLOYD MINTHORN, JR., B.S., M.S., University of Nebraska, 1944, 1949

NORMAN WILLIAM THOMAS, B.S., Wayne University, 1950

HERMAN WEXLER, B.S., Allegheny College, 1949; M.S., 1950

In Civil Engineering

SAI-PAK CHAN, B.S., Lingnan University, 1943; M.S., 1950

ALY SALEM SHOUKRY, B.S., Fouad First University, 1940; M.S., Farouk First University, 1950

JAMES EDWARD STALLMEYER, B.S., M.S., 1947, 1949

JAMES GORDON SUTHERLAND, A.B., University of British Columbia, 1949; M.S., Stanford University, 1950

In Education

MORRIS ROBERT LEWENSTEIN, A.B., A.M., University of Chicago, 1944, 1947

MYRON LIEBERMAN, B.S. (Law), B.S. (Social Studies), University of Minnesota, 1941, 1948; A.M., 1950

In Electrical Engineering

CHARLES V. JAKOWATZ, B.S., M.S., Kansas State College, 1944, 1947

HERMAN EDWARD KOENIG, B.S., M.S., 1947, 1949

In Entomology

ROY JEAN BARKER, B.S., University of Missouri, 1948

In Geology

JAMES HAROLD FISHER, A.B., M.S., 1943, 1949

In Library Science

HOWARD WOODROW WINGER, A.B., Manchester College, 1936; B.S., George Peabody College for Teachers, 1945; M.S., 1948

In Mechanical Engineering

YUNG-MIAO MIAO, B.S., North Carolina State College, 1949; M.S., 1950

RALPH GRIFFITH NEVINS, JR., B.S., B.M.E., M.S., University of Minnesota, 1945, 1947, 1949

In Philosophy

JAMES RUSSELL GARDNER, A.B., Muhlenberg College, 1925; A.M., University of Southern California, 1928

In Physical Education

RICHARD VICTOR GANSLER, B.S., Columbia University, 1939; Ed.M., Springfield College, 1940

In Physics

WARREN LEE BENDEL, B.S., Kent State University, 1946; M.S., 1947

RALPH OWEN KERMAN, A.B., Kalamazoo College, 1947; M.S., 1948

In Physiology

IVAN EDWARD DANHOF, A.B., A.M., North Texas State College, 1949, 1949

In Psychology

DARRELL ELLSWORTH LATHAM, B.S., State University of Iowa, 1938; M.S., 1945

In Spanish

THELMA RUTH CARRELL, A.B., Eureka College, 1935; A.M., 1937

In Theoretical and Applied Mechanics

BLAINE WRIGHT ANDERSEN, B.S., University of Utah, 1949; M.S., 1951

In Zoology

EARLE ANDREW DAVIS, JR., B.S., Grove City College, 1941; M.S., University of Pittsburgh, 1943

Degree of Doctor of Education

RALPH WALDO CHENOWETH, B.S., M.S., 1932, 1935

GLADYS LONGINO JONES, A.B., Northwestern State College, 1935; A.M., Ohio State University, 1948

JACK LYLE LANDES, B.S. (Physics), B.S. (Educ.), A.B., Central Missouri State Teachers College, 1933, 1933, 1934; Ed.M., University of Missouri, 1943; Ed.M., 1950

CARL MAURITZ LINDVALL, A.B., Augustana College, 1947; A.M., Ed.M., 1950, 1952

JOHN NEWTON RENARD, B.S., M.S., Ed.M., 1934, 1947, 1948

Degree of Master of Arts*In Economics*

LEONARD CHARLES KOETTER, JR., B.S., 1949

BOGDAN MIECZKOWSKI, B.S., University of London, 1950

In Education

MARGUERITE DANNENBERG, B.Ed., Western Illinois State College, 1941

MICHAEL ESCORCIA, A.B., 1948

CARL GEORGE HAFENRICHTER, A.B., North Central College, 1939
JAMES EDWARD MCCLELLAN, JR., B.S., University of Texas, 1949
DAVID JAMES PALMER, A.B., 1951

In English

ALDO HERMAN MUNGAI, B.S., Western Illinois State College, 1951
ARTHUR EMMET PENNELL, B.S., 1949

In History

GUY JAMES GIBSON, A.B., University of Wisconsin, 1936

In Mathematics

HAL GERALD RUSSELL, A.B., James Millikin University, 1951

In Philosophy

YU-WEN HAN, A.B., Peking University, 1938
ALEXANDER CEASAR POINSETT, B.S., 1952

In Political Science

RICHARD EDWARD BAIRD, A.B., Augustana College, 1951
CHENG-TSU CHANG, A.B., National An-Hwei University, 1946
MARGARET PATRICIA VAWTER, B.S., 1947
LAWRENCE ALDEN WILLIAMS, B.S., Purdue University, 1951

In Psychology

FREDERICK ARTHUR MUCKLER, A.B., 1951

In Social Sciences

RICHARD EDWARD ROXBURGH, A.B., 1952

In Sociology

ALBERT GEORGE PARKER, III, A.B., Princeton University, 1943; B.D., McCormick
Theological Seminary, 1949
AVIVA SHEDROFF WAITZMAN, A.B., 1950

In Spanish

LINDO DAN ROMANI, B.S., 1950
DOROTHY ARLENE VICKERS, B.S., Eastern Illinois State College, 1951

In Speech

JAY MELROSE, A.B., A.M., Queens College, 1948, 1951

In Statistics

ROBERT ARTHUR BANZHAF, A.B., M.B.A., University of Chicago, 1947, 1948
HERBERT SELIG BLOCK, A.B., University of Rochester, 1951
MARY LANGAN SNOWDEN, A.B., Denison University, 1951

Degree of Master of Science

In Accountancy

RAY DUANE BARR, B.S., Municipal University of Omaha, 1951
CHARLES AUGUSTUS LINDBURG, A.B., Monmouth College, 1951

In Aeronautical Engineering

BERNARD KENNETH GENETTI, B.S., 1952
WENDELL JEAN THOMPSON, B.S., 1952

In Agricultural Economics

JOSEPH THOMAS KEELER, B.S., University of California, 1951
JAVAD PIROUZBAKHT, Agr. Engr., University of Tehran, 1935
ROBERT EUGENE ROGERS, B.S., Iowa State College, 1950
JAMES ROBERT ROUSH, B.S., 1950
GEORGE WILLIAM STONE, B.S., 1951
DELMAR FRANCIS WILKEN, B.S., 1947

In Agricultural Education

HOBART ROSS HINDERLITER, B.S., 1951

In Agronomy

MARVIN BENJAMIN GRAEBER, B.S., North Carolina Agricultural and Technical College, 1949
ROBERT WHARTON HOLDEFER, B.S., Iowa State College, 1951
KAZYS CHARLES LABANAUSKAS, Diploma Agriculturist, University of Agriculture (Stuttgart, Germany), 1947

In Animal Science

CARL THEODORE FRIZ, B.S., M.S., 1951, 1952
STEPHEN MORRIS WILLIAMS, B.S., University of London, 1949

In Architecture

LEO DANTE CHICCA, B.S., 1951
MAN BALL LEUNG, B.S., Kung Shang University, 1947
ABOU-ZEID HASSAN RAGEH, B.Arch., Fouad First University, 1949
YOUSSEF SHAFIK, B.Arch., Fouad First University, 1942

In Bacteriology

SHIRLEY MAE NASH, B.S., University of Wisconsin, 1949

In Biological Sciences

ROBERT DAVID HENRY, B.S., Ohio State University, 1951
JOHN FRANCIS LAVENDER, A.B., Drake University, 1951

In Chemistry

E. REINOLD FETT, A.B., Hope College, 1951
SAMUEL GEORGE KAHN, B.S., Illinois Wesleyan University, 1951
JEAN ADRIENNE KANN, B.S., Queens College, 1951
WILLIAM DONALD SMART, B.S., Northwestern University, 1951
MILTON K. SNYDER, A.B., College of Wooster, 1951
RICHARD ALAN STREHLOW, B.S., University of Chicago, 1948

In Civil Engineering

WILLIAM EGGER, JR., B.S., 1951
JAMES RAYMOND GASTON, B.S., Rose Polytechnic Institute, 1950
LEONARD ANDREW HARRIS, B.S., Stanford University, 1950
DOUGLAS HERBERT LEE, B.Arch., McGill University, 1950
MOHAMMAD ABDUR RAZZACK, B.S., Muslim University, 1947; B.E., Osmania University, 1950
ALVIN RAYMOND TURSKE, B.S., University of Toledo, 1951
MINAS BASIL YORDANIDIS, B.S., Robert College, 1944

In Clinical Psychology

WILLIAM ROBERT CHAMBERS, JR., B.S., 1950

In Dairy Science

GERALD STARNER STUFF, B.S., 1951

In Education

THOMAS WAYNE ANDERSON, B.S., 1947
NORMAN CLYDE ARNOLD, B.S., Central Missouri State Teachers College, 1934
LEAH MAHER BURNS, B.S., Drake University, 1929
DONALD CARLTON DRUMM, B.S., Illinois Wesleyan University, 1942
ROBERT HARRY FLAUGHER, JR., B.S., Eastern Illinois State College, 1949
CARL ROGER GASAWAY, B.S., Southern Illinois University, 1944
JOSEPH VINCENT GRIFFIN, B.S., 1948
ROBERT LEON HARDIN, B.S., 1950
JOHN FOSSE JORSTAD, B.S., Illinois State Normal University, 1948
MICHAEL KASS, B.S., Eastern Illinois State College, 1950
CLAUDE CLAYTON LEWIS, B.S., 1947
GEORGE CAMERON MUIR, B.S., Eastern Illinois State College, 1949
FRED V. PETER, B.S., University of Missouri, 1926; A.B., 1929
CECIL VERNE REED, B.S., 1928
MARY LOU COLE RICCIO, B.S., 1949
ALBERT LEE SHAFER, B.S., 1941
HORACE EDWARD WEST, B.S., 1950

In Electrical Engineering

RICHARD FRANK HYNEMAN, B.S., Purdue University, 1950
PHILLIP NELSON LARSEN, B.S., Colorado State College of Agriculture and Mechanical Arts, 1950
VERNON DALE PECKHAM, B.S., 1952
LILY HANNAH SESHU, B.S., M.S., University of Travancore, 1944, 1946

In Entomology

MURRAY SHELDON BLUM, B.S., 1952
GEORGE WALDO HAHN, B.S., 1951
MOUFIED ABDEL-AZIZ MOUSSA, B.S., Fouad First University, 1948

In Food Technology

MAHMOUD ALY SALEH, B.S., Fouad First University, 1940

In Geography

IVAN J. WARREN, B.S., 1951

In Geology

WILLIAM HENRY BIERSCHEK, B.S., Princeton University, 1951
KENNETH EDWARD CLEGG, B.S., 1950
LYLE DEAN EBERLY, B.S., Municipal University of Wichita, 1951
WADE LOWERY MCCORMICK, B.S., Mississippi State College, 1950
MARGARET ANN PARKER, B.S., Northwestern University, 1943
WILFORD FRANK WEEKS, B.S., 1951

In Home Economics

ELIZABETH CAROLYN ANDERSON HEINICKE, B.S., 1921

In Home Economics Education

MARY ANGELINE KELLY, B.Ed., Eastern Illinois State College, 1942
MARGIT ELIZABETH OHRNELL, A.B., Seattle Pacific College, 1951
MARY FRANCES JONES WILKINSON, B.S., 1947

In Journalism

BETTY LOU HUGHES BRYDGES, B.S., 1933
ESTHER ANN JARVIS, B.S., 1951

In Library Science

NORMAN JAMES CRUM, B.S., 1950
BETTY ANN KRAHN, B.S., Milwaukee State Teachers College, 1947
NITA LAVAGGI, A.B., College of the Pacific, 1947
MIRIAM SHIELDS MEEKS, A.B., Belhaven College, 1924
CLAUDIA MUBAYYED, A.B., Keuka College, 1951
NORMA MILLER POINSETT, A.B., Tougaloo College, 1949
RICHARD GOFF SMITH, A.B., A.M., University of Utah, 1940, 1949
GEORGE BARBER STULTZ, B.S., Morehead State College, 1952
RONALD CHARLES TOLLAFIELD, A.B., Ohio Wesleyan University, 1943; B.S.(L.S.), Western Reserve University, 1947

In Management

DONALD ERNEST HALL, A.B., 1951
HAO-WEN LIU, B.S., Miami University, 1951

In Marketing

HYMAN CHASE, B.S., 1951

In Mathematics

EUGENE EDMUND KOHLBECKER, B.S., 1952
RAYMOND PETER POLIVKA, A.B., North Central College, 1951

In Mechanical Engineering

ALLAN GEORGE FRIEDERICH, B.S., 1947
SELAHATTIN ADIL OKCUOGLU, B.S., Robert College, 1949
DODLA GOPALA KRISHNA REDDY, B.E., University of Madras, 1951

In Metallurgical Engineering

RICHARD BRUNK GREENWALT, B.S., Massachusetts Institute of Technology, 1951

In Music Education

JOHN LAWSON DORING, B.S., 1952
LUCILLE EBEL MCKINNEY, B.Mus., Illinois Wesleyan University, 1937

In Physics

LEROEY GEORGE AUGENSTINE, B.S., University of Chicago, 1949
JAMES EDWARD BAUERLE, B.S., 1951
SOLOMON GARTENHAUS, A.B., University of Pennsylvania, 1951
JAMES BENJAMIN HENSHALL, JR., B.S., University of Miami, 1949
ALLAN CLARENCE JUVELAND, A.B., St. Olaf College, 1951
ROBERT THORNTON SCHUMACHER, B.S., University of Nevada, 1951
SIDNEY TETTLER, B.S., Long Island University, 1951
JOHN OLIVER THOMSON, A.B., Williams College, 1951

In Physiology

RONALD ARLY BERGMAN, B.S., 1950

In the Teaching of Biological Sciences and General Science

JOSEPH VINCENT CRISANTI, B.S., Loyola University, 1951
MARY OLIVETTE YOUNGE, B.S., Fontbonne College, 1951

In the Teaching of Geography

HELEN LYNCH LONGSHORE, B.S., 1951

In Theoretical and Applied Mechanics

RICHARD CHESNEY ELSTNER, B.S., Rose Polytechnic Institute, 1947

In Veterinary Pathology and Hygiene

THOMAS RICHARD HOUPPT, V.M.D., University of Pennsylvania, 1950

In Zoology

ROBERT TAYLOR CALEF, B.S., 1949

PAUL FRANCIS DOOLIN, A.B., Illinois College, 1950

JOSEPH CAROL RIEFFENBERGER, B.S., 1951

PAUL DOYLE VAN ZANDT, A.B., Greenville College, 1952

Degree of Master of Music

ROBERT ROY BECKER, B.Mus., Denver College of Music, 1931

Degree of Master of Education

VIRGINIA MAE BENDER, A.B., 1930

NORMAN BONE, B.S., Eastern Illinois State College, 1951

MALINDA DOROTHY BRUMMER, A.B., University of Colorado, 1950

RUTH NAOMI CALIMESE, A.B., A.M., 1944, 1948

JOSEPH EDWARD CAREY, A.B., 1950

NORMAN EDWARD DILLEY, B.S., Edinboro State Teachers College, 1941; A.M., Washington University, 1947

JOANNE CATHERINE DONAHOE, A.B., College of St. Teresa, 1951

GENEROSE DUNN, B.Ed., Southern Illinois University, 1940

MARY LOU FOCHT, B.S., 1947

LORRAINE MARY FOSTER, A.B., 1951

CATO HAMBRO, A.M., Oslo University, 1951

JOHN RICHARD HARTLEY, A.B., Knox College, 1941

JOEL TENNANT HERBST, A.B., Iowa State Teachers College, 1950

MILDRED CECILIA HOECHERL, B.S., Eastern Illinois State College, 1948

MURIEL NEWTON JONES, B.S., Southern Illinois University, 1950

THOMAS JOSEPH KELLY, B.S., University of Iowa, 1931

EDNA LYON LYNN, B.Ed., National College of Education, 1941

MARGARET SMITH MOLL, B.S., University of Wisconsin, 1948

JESSE SHERMAN NEAL, B.S., Southern Illinois University, 1951

HESTIN LEROY RICHARDS, B.S., Eastern Illinois State College, 1949

JAMES WILLIAM SMITH, B.S., Eastern Illinois State College, 1950

NOLEN CHARLES VARNER, B.S., Oklahoma Agricultural and Mechanical College, 1948

WALTER GEORGE VERSEN, B.S., University of California (Los Angeles), 1948

DOROTHE EVA YOUNG, A.B., North Central College, 1945

COLLEGE OF LAW**Degree of Bachelor of Science***In Law*

RALPH EDWARD MADSEN

Degree of Bachelor of Laws

STANLEY EARL ARDEN, B.S., 1952

SCOTT EDWARD BOHON, A.B., 1951; with
High Honors

THOMAS WAI NAM CHUN, A.B., 1950,
1951

STEPHEN JENNER COVEY

NOLAN CORNWELL CRAVER, JR., B.S.,
1951

LEONARD THOMAS FLYNN, B.S., Bradley
University, 1950

HENRY GREEN, B.S., 1951

JAMES DAVID HASSED, B.S., 1951

DONN ELMER JOHNSON, A.B., Mon-
mouth College, 1947

RAYMOND RALPH KIMPEL, B.S., 1950

DARRELL ELSWORTH KLINK, A.B., 1950

HENRY LEWIS, A.B., DePauw Univer-
sity, 1950

DURWARD JAMIESON LONG, A.B.,
Augustana College, 1949

OLIVER DAVIS MANN, JR., B.S., 1951
 CHARLES DANIEL MESSMAN, A.B., Illinois Wesleyan University, 1950
 KENNETH FRED MILES, A.B., 1951
 GERALD WAYNE MOODY, B.S., 1951
 ROBERT PHILIP MOORE, B.S., Butler University, 1949
 RICHARD WAYNE PATERSON, B.S., 1951
 RICHARD SIPE SCHEFLOW, A.B., Beloit College, 1950

GEORGE WALLACE THOMPSON, A.B., Hamilton College, 1949; with High Honors
 ROBERT EDWARD TURNBOW, B.S., 1951
 JOSEPH PETER VAN HOOREWEGHE, A.B., St. Ambrose College, 1948
 ALAN MOORE WIENMAN, B.S., Illinois Wesleyan University, 1948
 GUY CARLETON WINKS, A.B., Illinois College, 1951

COLLEGE OF AGRICULTURE

Degree of Bachelor of Science

In Agriculture

JOHN KENNETH BAILEY
 RAYMOND LEE BOUAS, with High Honors
 MAX RUSSELL BRADSHAW
 GLENN LEE BROWN
 BANTA BUNDY
 IRVIN CLARK BUNN, with Honors
 PAUL CURTIS CAREY
 ROBERT LEONARD CROSS
 EUGENE EVERETT DANIELS
 KENNETH PAUL DUBROVIN, with Highest Honors
 JOHN LESLIE DUEWER
 RAYMOND HOWARD EICHELBERGER
 GLENN ROGER EKMAN
 MARY LOU GREEN
 HAROLD LEON HALLBERG
 HAROLD DEAN HUBER, with Honors
 LOREN ALBERT IHNEN, with Highest Honors
 WILLIAM HARLAN JENNER
 JOHN VICTOR JOHNSON, with Honors
 KEITH ALLEN KAHLE, with Highest Honors
 JESSE HAROLD KEYSER
 ALBERT DARREL KRAFT, with High Honors
 ELZA CHARLES LACY

CHARLES SANDFORD LEVINGS, III, with Honors
 ROSS LONDON McNAUGHT
 HERSCHEL JAMES McPHERON
 JEFFREY EUGENE MITCHELL
 LUKE JOHN OBERWISE, JR.
 RUSSELL JOSEPH OSMON
 ROY LEWIS OSTROM, with Highest Honors
 HAYWARD JUNIOR REEDER
 RICHARD WILLIAM RIEGER, with Honors
 HOWARD WILLIAM ROBINSON
 JOHN ROBERT RUNDLE
 ROBERT WILLIAM SCHERLONG, with Honors
 LYLE PAUL SCHERTZ, with High Honors
 MYRON JOHN SCHULTZ
 ROBERT MARVIN SCHUMACHER
 ROBERT MERLE STEELE, with Honors
 LYNN WALSH SURGEON
 HENRY SAWYER TOMLINSON
 JOHN WALTER URBAN
 GEORGE DUANE VON LANKEN, with High Honors
 HAROLD EUGENE WEATHERHOLT
 NORMAN GENE WEIR

In Dairy Technology

FRANKLIN CHARLES MRAZEK

In Floriculture

FRANKLIN ALBERT POKORNY, with Honors

In Home Economics

KATHERINE NICKOL ACKERMANN, with Highest Honors
 ANN CAROLYN ENGELBRECHT
 MARY SHIRLEY GARMAN
 ELEANORE ETTIE GOLDSMITH
 MARYLOU HORNE HENNIS
 BESSE OSBORNE JOHNSON, with Honors
 JANE MAUTZ

CAROL ANNE NEUREUTHER, with Honors
 HELEN MARIBETH O'DONNELL
 MARJORIE ANNE SANER
 MURIEL ADELE STARK
 GLADYS MARIAN WHYNOT, with High Honors
 MARILYN WOMELDORFF, with Highest Honors

In Home Economics Education

SHIRLEY JUNE ERICKSON
MARILYN ALICE HOYT

VIVA LEOLA MOODY

In Restaurant Management

OSCAR ELDO BLAKE

COLLEGE OF ENGINEERING

Degree of Bachelor of Science

In Aeronautical Engineering

GLENN ANTON ANDERSON
RICHARD ALAN CAMP, with Honors
WALTER MARTIN SMOTRYS

RICHARD JOSEPH SMUTNY
JAMES XERIKOS

In Agricultural Engineering

JOHN WILBUR BLISS
ROBERT FRANCIS McDOWELL

HENRY RAYMOND SPIES

In Ceramic Engineering

REY CHING TUNG, with Honors

In Civil Engineering

GERALD WARD ARMENTROUT, JR.
GUY MARIO JAIME ARRIETA
CHARLES WARREN BEILFUSS, with Honors
GEORGE LESTER BRIDWELL
CHARLES EDWARD BURKETT
ALLEN GRAFTON COX
DALE WILLARD DIEMER
RONALD EUGENE DIGLES
THOMAS MITCHELL EDWARDS
ROY ELAM, JR.
RICHARD L. GARRITY
JOHN PATRICK HIGGINS

ROBERT CALHOUN HUNDLEY
JOHN ITSUO KAYA, with Honors
LOREN C. KOLDITZ
JOHN DAVID LANDGREN, with Honors
WILLIAM MEALE, with Honors
JAMES MASANORI NAKAWATASE
DONALD LESTER NEUMANN
THOMAS ANTHONY PODRAZA
LEONARD AUGUST POSTREGNA
GEORGE AUGUST RATZ
JAMES PAYTON ROBERTS
DELOIS SMITH
MORGAN HOUGHTON THOMPSON, JR.

In Electrical Engineering

NORWOOD ALBERT BOOTH
MERLYN BRUCE BUCHANAN
MELVIN COHEN
LLOYD JOSEPH DEMEL
PAUL DiSalvo
JERRY JOHN DONAHUE
SEYMOUR GANTMAN
GEORGE LOUIS GEOGRAPHOS
NIKOLAI THEODOR GONCHAROFF
RICHARD ALLEN GRAHAM
ROBERT OLIVER HANSEN
HENRY FRANK HITE, JR.
SHELBY EUGENE HUNTER, with Honors
DAVID HAROLD JOHNSTON, JR.
LAWRENCE ERWIN JONES

RICHARD EDWARD KENNA
THOMAS HOWARD KRIGBAUM
RUDOLPH HOWARD MAROVEC
JESSE CARLISLE MCCLELLAN, JR.
WILLIAM CLARENCE MESCHER
CHARLES LESTER PAGE
JOHN BENJAMIN PETTEGREW
FLOYD GEORGE POWELL
BILLIE WIRTH PRESTON
WAYNE FREDERICK SCHAFER
DELWIN NICHOLAS SCHNEIDER
KIYOSHI YAMAMOTO
LOUIS JOSEPH ZBORAN
JOHN VINCENT ZINKUS
LAVERNE JOSEPH ZIPPRICH

In Engineering Physics

BRUNO FAJFAR
HENRY PAUL KALAPACA
PETER KIYOSHI SHIZUME

ROBERT UYETANI
JOHN EVAN WASCO

In General Engineering

SHERMAN LOUIS BREMER
 WRIGHT MARSHALL CATLOW
 KENNETH WILLIAM ENGELBRECHT
 MORRIS SIDNEY HACKMAN
 WILLIAM EDWARD HAMRICK
 WENDELL CHARLES HILDENSTEIN
 JULIUS DAVID HOLMQUIST

EARLE LE ROY KNEIFEL
 ROBERT ALLEN LANDL
 HENRY MARCHESCHI
 LEONARD JAMES MATTSON
 RICHARD WILLIAM REYNOLDS
 HAROLD JEAN SLAIGHT
 RICHARD LEE TOMEI

In Mechanical Engineering

ANTONIO ALEGRIA-SCHUUR
 JOHN RAYMOND ALTENHOFF
 DONALD RAAB BAILEY, with Honors
 CARL BLATTNER
 JOHN ROBERT CARROLL
 JAMES ORVILLE CHAMBERS
 CHUAN FANG CHEN, with High Honors
 LORIMER L. CREWS
 EVERETT HAROLD FIELDS
 PASCAL ANTHONY GERARD
 RAYMOND JOHN GOLIK
 LEROY GROSSMAN
 WILLARD HERBERT GUNTHER
 ERIC KENNETH JOHNSON
 WILLIAM JOSEPH JORDAN
 RAYMOND STANLEY KACZMAREK
 ROY FRANCIS KASTEN, JR.
 RICHARD JAMES KONIGSFELD
 FRANK PAUL LEWANDOWSKI
 BILL KEITH LINDBERG

JOSEPH RAY MEISENHEIMER
 ROBERT ALBERT MICHAEL
 ROBERT ANTHONY PARISOLI
 JAMES DAVID PETERSON
 JOHN MILTON POLLACK
 HENRY WALES PRICE, JR.
 THOMAS JAMES PYKA
 ORVILLE HENRY RINNE
 ROY ELDON ROAT
 EDWARD HOWARD ROBINSON
 EUGENE AUGUST ROESKE
 THOMAS JAMES SHALLCROSS
 CHARLES ERVIN SIEFERT
 ISIDORE FRANK SOBCEK
 LARRY EARL STUMP, with High Honors
 RAYMOND SWANSEN, JR.
 CHARLES ORAL VELZY
 VERNON GLENN VETTER
 JOSEPH RONALD WERTH, JR.
 GEORGE YEE

In Metallurgical Engineering

LOUIS ARTHUR BACLE
 ROBERT AUGUSTUS DRAZNIK
 RICHARD GAYDOS

DONALD GEORGE HALLAHAN
 DON GARRETT TOWNSEND

In Mining Engineering

SVEN BERTIL GAFVERT
 WARREN ERNEST HOLLAND, with
 Honors

DARWIN EUGENE NEIHAUS
 DONALD JOHN SCHELLE
 WILLIAM HENRY STOEWER

In Sanitary Engineering

ARTHUR EDWARD MOLIN

JOHN ROBERT TOWERS

COLLEGE OF LIBERAL ARTS AND SCIENCES

Degree of Bachelor of Arts

In Liberal Arts and Sciences

HAROLD CHRISTIAN AICHHOLZER
 CYRUS ANDREW ALEXANDER
 EDITH JANE ALLEN
 ALBERT HUGH AMAN
 ARTHUR JEAN AMAN
 ELEANOR SIMMONS AUERBACH, with
 Honors in Speech
 ROBERT CLARENCE BECK
 CHARLES CONRAD BECKER, JR.
 THOMAS OWEN BEIDELMAN, with High-
 est Honors in Psychology

ROBERT OTTIS BENDER
 INEZ RENNE BERG
 DAVID KENNETH BERLO
 HERBERT BLAUFARB
 JAMES THEODORE BORHEK
 ROY GENE BRASEL
 EDWARD RONALD BURR
 JERRY MICHAEL CARLO
 JAMES JOSEPH CRAIG
 ROY LESTER CULLER, JR.
 BEVERLY ANN DADY

THEODORE EDWARD DESCH
 ANNETTE LOUISE DOBER
 ROBERT LOUIS DROSTE, with Honors in
 History
 RUDOLF OTTO FAISS
 AUDREY MARIE FARRELL, with Honors
 in Sociology
 RICHARD JAMES FIALA
 LADOROTHY IMERINE GRAVES
 RUTHANN GREER, with Honors in
 English
 ROL J. HEALY
 MARJORIE RICE HENN
 HETTY ROSE HERMAN
 HARRY EUGENE HILBRICH
 ROBERT KNOX JACOBS
 GORDON WILLIAM JOHNSON
 HUGH MARVIN JONES
 GEORGE MILTON KAPLAN
 REEVA DAVORAH KATTER
 JEROME MICHAEL KEEFE
 DOUGLAS SHUSO KIMURA
 STANLEY CONRAD KOLINSKI
 EDWARD THOMAS KOSKA
 LOIS MARDELE LANGDON, with Highest
 Honors in Political Science
 JAMES ARTHUR LATIMER
 WILBERT CHARLES LEKBERG

DONALD PAUL MAGNUSON
 JOHN MLADE, JR.
 ELAINE EMI NISHIMURA
 JOHN ENNIS PFAU
 GERALD ARTEMUS PHILLEO, with High
 Honors in English
 JOSEPH ANDREW PRESTON
 MARGARET WEBERG RATCHFORD
 PATRICIA ANNE RIEGER
 MARGARET ALICE RIGSBY
 MARJORIE JOAN ROSENTHAL
 ARNOLD RIES ROTTMAN
 JOANNE ELEANOR SALBERG
 MARY JOANNE SALINE
 PERRY SATZ, with Honors in Economics
 MARY ELLIN SCHIFF, with Honors
 in English
 SUZANNE SCHLENKER
 JOHN ROBERT SLOAN, JR.
 GERALD CURTIS STONE
 PATRICIA ANN STRUTH
 LESLIE GERARD SWARTZ
 FLORENCE WALTERS
 HELEN JUDITH WASSERMAN
 RACHEL WATERFALL
 ROSEMARIE SUSAN ZACK
 ARWIN MORTON ZOLLER

In the Teaching of English

RICHARD THOMAS MARTIN, with High- est Honors	MARILYN JUNE MCNAIR, with High Honors
FREDERICK JOSEPH MATHIESON, with Highest Honors	

In the Teaching of French

MARIANNE DENTON	JOAN FRANCES POSATERI
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In the Teaching of German

JUNE LILLIAN LOWRY

In the Teaching of Social Studies

GLADYS MARIE DODD	ALTHEA HELEN RAUTENBERG, with Highest Honors
PETER EDWARD JOHNSON	THOMAS EDWARD RYAN
DEMETRA KARAKOURTIS	ERNEST EICKELMANN SHEPARD
MITZI-LOU MARION MILLER	

In the Teaching of Spanish

OLINDO OMERIO ALO	RICHARD ARTHUR LATHROP, with High Honors
-------------------	---

In the Teaching of Speech

KEITH ALLAN PAGE

Degree of Bachelor of Science

In Chemical Engineering

RICHARD BENES	DELMAR JAMES GOTTSCHALK
EGBERT WENDELL BIGGERS	WILLIAM MAYNARD HAGER
RICHARD ARTHUR GOSNELL	JAMES ZANTESON HOFFMAN

GORDON LEONARD NELSON
ROBERT ARTHUR OSTER
RODNEY BOSTWICK PHILLIPS
ANTONIO BRUNO PIZZATO
GEORGE RATKOVIC, JR.

JOHN CHARLES REED, with High
Honors
JOHN DALE STAUFFER
ROBERT STANLEY ZIELINSKI, with
Honors

In Chemistry

RUE LINSEY BELFORD, JR., with
Highest Honors
DONALD GLENN GARDNER
JAMES FREDRICK KNELLER
MILLS THOMAS KNELLER

EDWARD OTTO STEJSKAL, with Highest
Honors
EVELYN JOYCE WEBER, with Highest
Honors

In Liberal Arts and Sciences

PAUL KIIYOTO ASE
ADELA SWENSON BAER, with Honors in
Zoology
ROBERT ARNOLD BILEK
RALPH WALTON BROWN
EUGENE THOMAS CALLAHAN
ROBERT CAMP
GEORGE PETER CASTEN
ANN POWERS CLEARY, with High
Honors in Botany
JAMES MANSFIELD CLEARY, JR.
JEANNE E. CRAWFORD, with Honors in
Mathematics
RALPH LOUIS DIETCHWEILER
BERNARD ABRAHAM FAINGOLD
CLYDE FISHER, JR.
URSULA FRANKEL
BYRON WAYNE GEBAUER
MARION TOUREK HERSH
EVA YOSHIYE HIRASUNA, with High
Honors in Zoology
JORDAN KATZ
JOHN NICK KOSKOVIC

BENJAMIN YET SUNG LEE
ROBERT STEPHEN LEWIS
DONALD RAY LICHTENBERGER
SHIRLEY JOAN LINDBLAD
GEORGE JACK MOBILLE
FRANK SHIGEHIDE NISHIME
PAUL JULIUS REGORZ
RICHARD SAM ROGICH
JAMES DAVID SAMPSON
DALE LOREN SOLLARS
JOHN DONALD STENQUIST
BARBARA KAY STEVENSON
MARY LANY STOIKOV
TOH BEE TAN
JERRY JOHN TULIS
HERMANUS WILHELMUS VREENEGOR
ABDUL KAYUM WARDAKEE
STANLEY CASIMIR WARKOCZEWSKI
WALTER JOSEPH WERNER
RICHARD MARION WINIARSKI
BRUCE ALLEN WRIGHT
KARIN ANINA ZACHARIAS

In Speech Correction

SHERRI SOPHIE ZUCKERMAN, with Honors

In the Teaching of Biological Sciences and General Science

JULIUS BINDER, with High Honors
FLORENCE CRYSTAL HENRIKSEN

ROBERT EUGENE SFORZA

In the Teaching of Chemistry

JAMES MAURICE HALM

In the Teaching of Mathematics

ALEXANDER HACHIGIAN

In the Teaching of Mathematics and the Physical Sciences

ALFRED CHARLES HERZOG, with Honors

COLLEGE OF EDUCATION

Degree of Bachelor of Science

In Education

CORNELIA EVELYN AUSTIN
ARLENE VIRGINIA BRIETZKE, with
Honors

CATHERINE AGNES BUCK
FREDRICK ROBERT FECHTNER
CATHERINE ELEANOR FOLTYNEWICZ

JAMES ROWE HEGNER
FRED IRVING HILLS
WILMA DISBROW HUGHES

THEODORE ROBERT MOODY, JR
IRA E. SAX
KATHERINE ELAINE SMITH

In the Education of Mentally Handicapped Children

VERNON FRANKLIN FRAZEE

In Elementary Education

GLORIA ESTHER BECKER
GERALDINE RAMONA DILLON, with
Honors
CARLEEN ANN ETTINGER
FRANCES HARDING
MARIE ANTJE HEDEEN
MAVIS ANN HOFFMAN
CAROL MARIE JANSON
BETTY RENÉ KAISER
KIKI GEAN KOTSIPOPOULOS
BEVERLY JEAN LEMMON
LEAH LEVITT

CAROL MYRA LIEBERMAN
ALICE CLARE LYONS
DOROTHY DAVIES MEEK
SHIRLEY LEE MILLER, with Highest
Honors
BETTY LORRAINE NELSON, with Honors
NANCY STOUGH OLIVER
RUTH ELSA OLSON
MARILYN LOUISE SCHAEFER
DORIS JEAN THOMAS WILSON
CAROL ERNESTINE WOODCOCK

In Industrial Education

DWIGHT WILLIAM BENTON
FRED OLIVER LEHMAN

GEORGE JOHN TIKALSKY, JR.

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

Degree of Bachelor of Science

In Accountancy

WILLIAM HARLEY BANNING
ROBERT RODGERS BEERUP
WALTER CLIFFORD BERNTZEN
THADDEUS RICHARD BIALEK
HARRY DONALD BOBENG
EDWARD JOHN BOLKA
FRED JOHN BONDY
ROGER GILBERT BROOKE
ROBERT HARRY CALDWELL
RONALD IRWIN CHASON
ALBERT PHILIP DIETRICH
FLORIAN KENNETH DUSIK
GERALD SIDNEY ELLIOTT
HENRY LE GRANDE EVERS, JR.
MELVIN ROBERT FUNKE
LAWRENCE JERRY HARAM
JOHN ARTHUR HEIDEMAN, with Honors
PETER EDWIN JENSEN
ROBERT ALLEN KELL
ARNOLD EDWARD LANDSMAN
EUGENE CLEMENT JOSEPH LOHMAN,
with Honors

DONALD EDWARD MCMAHON
RICHARD FRANK MIDDENDORF, with
Honors
ALFRED GEORGE OELSCHLEGEL
ARTHUR CURTIS PAULLIN, with Honors
MARTIN RICHARD RAPPEFORT
ROBERT FRANKLIN SANDERS
RUDOLPH WALTER SCHATTKER, with
Honors
BERLE LOUIS SCHWARTZ
PENG KIANG SIM, with Honors
GEORGE SAMUEL SMITH
ALLEN JAMES SPIRTAS
HAROLD LLOYD STRAUSS
WILLIAM FRANKLIN TEICHMILLER
JOE AMOS THOMPSON
WILLIAM SUSUMU UJIYE
JOSEPH PETER VERNASCO
WILLIAM ARTHUR WASHBURN
RICHARD ANTON WIELAND

In Accountancy and Marketing

SELWIN EDWARD PRICE

In Banking and Finance

DAVID WELCH SMITH

In Commerce and Law

IRA JEROME FRIEDMAN
MARTIN JOSEPH KEATING

FRANK JAMES PARYPINSKI

In Commercial Teaching

SHIRLEY MAE CLAUSEN
DOMENICO FARINELLA

CHARLES JOSEPH HAMED
NORMAN DAVID HEDISH.

In Economics

RONALD EDWARD CRONWELL
ANTHONY VITO DELEONARDIS
HAROLD DEMSETZ
KENNETH WILBUR FREETO

JOHN HENRY MCGAUGHEY
WALTER HELMUT STUCKMANN
JERRY BOYD WACK

In Economics and Finance

JOSEPH ALAIMO

In Finance

DONALD ORBY BOYD
JOHN DONALD GUSTAFSON

ROBERT EUGENE RAPSILBER
FRANK MORAN SHAPPERT, with Honors

In General Business

THOMAS COULSON FLANINGAM

In Industrial Administration

RICHARD LEWIS COOK
JOHN EDWARD CORCORAN
ROBERT ARLINGTON ENDERS

JOHN WILBERT MACK
ROBERT LEE WALLER

In Management

ROBERT LEE BERRYHILL, with Honors
ERNEST ROWLAND BLATCHLEY
WILLIAM BROWN
WILLIAM BERYL CLARK
ALLAN JEROME FRANCISCO
ROBERT MAX GROEMLING
WILLIAM RALPH HANSELMAN
HAROLD WALTER HAUPT
RUSSELL ROBERT HEIDENREICH
JOHN HENRY HILTI
JOSEPH HUSTAK

ROBERT DAVID KUCERA
RICHARD LOGUS
THEO DICK MCCONNELL
ROBERT PAUL OLANDER
DOROTHY LUCILLE PHIPPS
STANLEY JOSEPH PLACZEK
CHARLES HUMPHREY SCHULTZ
JOHN CHRISTIAN SIEDENFUSS, JR.
FRANK LOUIS STAINKO
CLYDE ALLEN WISKAMP

In Marketing

RICHARD LEROY ANDERSON
ROGER ALLAN BJORVIK
HARRY VERNON BRINKMAN
MARGARET MARIE CODERRE
JAMES WALTON CONNOR
GERHARD WALTER DREWS
RICHARD DANIELS FOGLER
RONALD ARTHUR FREIWALD
SCOTT BRADFORD GREENE
ROY JOSEPH JOVIEN
NORABELLE KAPLAN
RONALD KEITH KEIM
ROBERT RALPH NOVAK

JERRY OSCHERWITZ
JAMES OLIVER PETERSON
HOWARD GEORGE REMUS
RICHARD SCHWEITZER
GEORGE TOLSON SEARLS
GEORGE VICTOR STULL
NICK TED THOMPOULOS
GEORGE TOWNSEND UNDERHILL, JR.
WILSON BURNSIDE WADSWORTH, JR.
ROBERT KEITH WAGNER
RONALD JAMES WALLACE
DONALD LEROY WHITSITT
RICHARD THOMAS WYATT

In Marketing and Management

LYLE DEAN FERGUSON
DONALD FRANK GRASS, with Honors

WILLIAM JOHNSON LOUDERBACK MASON

SCHOOL OF JOURNALISM AND COMMUNICATIONS

Degree of Bachelor of Science

In Journalism

CHARLES MACGREGOR BELLATTI, with Honors	PHILIP KAPLAN
JOYCE BERGER	HELEN MARIE KREBS
LOUIS JOSEPH BEROLATTI	ELEANOR ANNE KUEHN, with Honors
JOHN LOUIS BIRD	FANNIE MAGNISALIS
JAMES EDWIN CLAYTON, with Honors	VAHOG MATOESIAN
BARBARA B. EISENDRATH	JOSEPH ALSTON MURPHY
FRANK ORLANDO FRENCH	AHMAD HASAN QURESHI
HOWARD LYON GORDON	RICHARD KELLEY RODGERS
RICHARD EUGENE GOSSWILLER	NICK B. STACHNIAK
DAVID HEFTER, with Honors	JOSEPH OSCAR STREICHER
VIVIAN ELOISE HERR	GERALDINE MAE TONDI
	JAMES ALAN WOLFSON

COLLEGE OF FINE AND APPLIED ARTS

Degree of Bachelor of Science

In Architectural Engineering

RICHARD WALSH ADAMS, with Honors	CHARLES EDWARD KOEHN
JAY ELMER BAJOREK	PING KIN NG, with Honors
JACK RUDOLF BANJAVIC	HUGH MELLEN O'CONNELL, JR.
ALLEN WILLIAM CARLSEN	JOHN EDWARD OLRICKSEN
RALPH EDWIN CUFUADE	PHILIP MICHAEL RYAN, with Honors
ARTHUR FREDERICK DRALLMEIER	GEORGE SVOBODA
GODFREY LARENCE DUKE	KENNETH JAMES THELEN
STANLEY LEROY GOLDBERG	IVAN SOCRATES TSHILDS
THOMAS HENRY KLAUSMEYER, with Highest Honors	ROBERT RICHARD WEBER
	JOHN JOSEPH WHITE

In Architecture

JOSEPH ALEXANDER BEMBENEK	DAVID EUGENE MACMILLAN
JOHN ROBERT BRANI	CHARLES JOSEPH Mc ALLISTER
ALFRED GERALD DIERKES	WILLIAM JAMES MCCLEARY
ROBERT DOSS EVANS, JR.	GEORGE SIGMUND MILLSTEIN
FRED NEAL GULDEN	BAYARD MAHLON ORBLOCK
FREDERICK JOHN HART	WALKER LEE PATTON
DAVID ROGER HERMANSEN	DONALD PETER STEFFENS
HERBERT JAMES IVERSEN	LEO WALTER STEINBRENNER, with Honors
LINCOLN H. JONES	JACOB KARL VIKS, with Honors
WILLIAM ANDREW KELLY, JR.	GEORGE WATANABE
THOMAS HENRY KLAUSMEYER, with Highest Honors	ROBERT JAMES WISHER
THEODORE ERNEST KURZ, with Honors	

In Music Education

MARJORIE FRY ASH	DONOVAN PAUL HOUGH
MARY LOUISE DUSENBERRY	SHIRLEY ANNE LOCKE, with Honors

Degree of Bachelor of Fine Arts

In Advertising Design

LOWELL AXELRAD

In Art Education

JOAN MARIE ALTERA	FRED MICHAEL SCHWAPPACH
RUTH PALMER CRUMLISH, with Highest Honors	MERLE ROGER VANDERVLIET

In Industrial Design

JOHN PHILLIP BURGARD

ROSS EUGENE CORNWELL, JR.

In Painting

RICHARD OMER KEYS

Degree of Bachelor of Music

RICHARD OLIVER HAGEN, with Honors

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

JEROME FRANK BARANSKI

MILDRED MARY BARNHART

MARY ANN LEORA BOHBRINK

BEVERLY JEAN BROWN

MARY KATHERINE BROWN, with Honors

NANCY LORENE BUCK

MARTHA FRANCES CULBERT, with
Honors

DONALD ARTHUR DAVIS

EDGAR MICHAEL DEMBEK

BEVERLY JEANNE FALK

HERBERT LEE GERECKE

JOHN HANLEY HARRY

HARVEY LLOYD HARTENSTEIN

WILLIAM GEORGE HUG

DONALD RICHARD KAHL

IRVING FRANK KORITA

GENEVIEVE DOLORES KUNCE

FRANK ALVIN MAISCH

ROBERT PENROD McMILLEN

WYLLYS JULIUS MICHELINI, JR.

HERBERT LEE NEATHERY

JAMES KENNETH PENDLETON

ELIE CHARLES POPA

RICHARD JOHN SARGENT

RICHARD WILLIAM TANK

KENNETH LEE WELLINGTON

MARVIN SOLOMON WEISS

MERLE MILTON ROBERT ZESCHKE

In Recreation

JOSEPH ABRAHAMS

THOMAS HERBERT HALL

DIVISION OF SPECIAL SERVICES FOR WAR VETERANS**Degree of Bachelor of Science**

ROBERT FRANCIS BANKS

ROBERT ARTHUR BOMKE

WILLIAM OSCAR BUBSER

JAMES EDWARD COONEY

PHILIP EUGENE COX

DONALD DYER

JOHN CHARLES EGGERT

GEORGE ALAN FARMER

RAY FRANK FLOREK

DONALD RALPH GRIEVES

BERNARD ISENBERG

DONALD CURTIS JOHNSON

THOMAS FRANCIS JOYCE, JR.

RAYMOND DONALD KEESECKER

JOHN ALAN LAMBRIGHT

CHARLES RICHARD MCDANIEL

TOM TAKEO MIYAHARA

PERRY HERBERT MOHLAR

IRVING CLIFFORD MORGAN

STROTHER LEAMON MURPHY

EDWARD ALLEN PERRY

HAROLD WILLIAM PESMEN

BERNARD KNUT VARHOL

BERTRAM EVANS WAGNER

LEONARD EUGENE ZAPINSKI

APRIL MEETING

On motion of Mr. Johnston, the Board voted to hold its April, 1953, meeting on Monday, April 20, at Urbana, Illinois.

On motion of Mrs. Watkins, the Board adjourned.

A. J. JANATA

Secretary

PARK LIVINGSTON

President