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President's Report

by
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1937-38

With appendices containing a summary of
financial operations, and reports of
the Deans and other officers

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REPORT OF THE PRESIDENT FOR 1937-38

To the Board of Trustees of Cornell University:

I have the honor to present the following report on the University for the academic year 1937-38. In a series of appendices will be found reports for the same period from the nine deans and the several heads of independent departments and offices, all of which I venture to commend to the Board's attention.

ADMINISTRATIVE ORIENTATION OF THE YEAR

The year ended June 30, 1938—the first of the present administration—was not intended to be one of innovations. Any modern university is a complex organism, the nature and habits of which are not to be learned from brief acquaintance. The President has felt that a fairly extended period, certainly not less than a year, should be invested at the outset in wide contacts and careful observation, with a view to obtaining a well-grounded understanding of how the different parts of the University are functioning and how promising new developments can best be initiated.

This orientation of purpose was maintained by the new administration throughout the year. In so far as changes of organization and procedure were effected during 1937-38, they were either forced by circumstances or were of such a character as not to raise broad questions of policy. In general it may be said that the President during his first year in office was directing his attention very largely to getting acquainted. Much time and energy were devoted to a wide variety of contacts within the University, with faculties, committees, deans, department heads, individual professors, undergraduate organizations, student activities, campus life in all its kaleidoscopic phases. Away from the University, a sustained effort was made to see the far-flung body of alumni. By commencement time in June 1938, visits had been paid to fifty local clubs in thirty-seven different communities, from Boston in the East to San Francisco in the West, from Minneapolis and St. Paul in the North, to Washington and Louisville in the South. These meetings brought face-to-face contacts with at least five thousand graduates of the University and both enlivened and enriched the experiences of the year.

As a period of rapidly expanding and deepening acquaintance, the year appears to have served well. Already the President feels thoroughly at home. The cordial and friendly welcome which has been extended to him on every hand has been deeply appreciated, and has contributed greatly to the enthusiasm with which he views the work that lies ahead.

IMPORTANT CHANGES OF PERSONNEL

A great university is a thing, not of machinery, but of men. Administration may make a difference, but if it makes a difference that is worth while the difference will appear in the manifest facilitation of the work of the teachers and scholars and scientists who individually carry on the work for which the University exists. Administrative leadership in any institution of higher learning ultimately must be judged in terms of the quality of faculty it retains in service and the conditions it creates for the faculty's effective pursuit of the intellectual interests which lie at the very heart of the institution's life. In the enlistment, nurturing, and encouragement of able and stimulating personnel, the administrative direction of a University faces its most serious responsibility.

No phase of the University's work has had more of the President's thought and concern during the past year than necessary changes in the University staff. The changes that occurred during 1937-38 were numerous, and in a number of instances of major significance. The changes are given in full in the several lists that follow.

In the first place it is the administration's sad duty to report an appallingly heavy mortality during the year. Between July 1, 1937, and June 30, 1938, the University lost through death fifteen men, twelve still in active service, who had distinguished themselves in the life of Cornell. These fifteen men were:

Charles Dibble Bostwick, Comptroller of the University, died in Ithaca on December 15, 1937. Born in Ithaca, Mr. Bostwick entered the University in 1888, taking the Bachelor of Arts degree in 1892 and the Bachelor of Laws in 1894. From 1898 until 1903 he was Legal Assistant to the University Treasurer, Assistant Treasurer from 1903 until 1913, and Treasurer from 1913 to 1919. He was appointed University Comptroller in 1919 and served in that capacity until his death.

George Lincoln Burr, Professor of Medieval History, Emeritus, died in Ithaca on June 27, 1938. Early associated with President White, Professor Burr was first appointed to the staff as Instructor in History in 1881, the same year in which he received the Cornell Bachelor of Arts degree. He was successively appointed Assistant Professor, Associate Professor, and Professor of Medieval History, serving Cornell from 1881 until his retirement in 1922. In 1919 Professor Burr was named the John Stambaugh Professor of History. From 1878 he served as Librarian of the President White Library.

John W. Churchman, Professor of Experimental Therapeutics in the Medical College in New York City, died on July 13, 1937. Dr. Churchman was first associated with the Medical College in 1923, when he was appointed Associate in Hygiene. In 1925 he was made Associate Professor and, in 1927, Professor of Experimental Therapeutics.

Peter Walter Claassen, Professor of Biology, died on August 16, 1937. He came to Cornell in 1915 as Assistant in Entomology, was appointed Instructor in Natural History in 1917 and made Assistant Professor of Biology in 1919, having received in 1918 the Cornell Ph.D. degree. In 1926, he was named Professor of Biology.

Herman Diederichs, Dean of the College of Engineering, died on August 31, 1937. After his graduation from the University in 1897, he was successively appointed Assistant, Instructor, Assistant Professor, and Professor of Experimental Engineering. In 1921 he was appointed Director of the Sibley School of Mechanical Engineering, and in 1928 named to the John E. Sweet Professorship in Engineering. He was made Dean of the College of Engineering in 1936.

William Alexander Hammond, Professor of Ancient Philosophy and of Aesthetics, Emeritus, died in Washington, D. C., on May 7, 1938. In 1891 he was appointed Instructor in Greek Philosophy, in 1892 Assistant Professor, and in 1907 Sage Professor of Ancient Philosophy. In 1930 he retired from active service. Dr. Hammond served as Secretary of the University Faculty from 1903 to 1920 and as Dean of the University Faculty from 1920 until his retirement.

Merritt Wesley Harper, Professor of Animal Husbandry, died in Ithaca on May 9, 1938. Appointed Assistant in Animal Husbandry in 1905, he was made Instructor in 1906, Assistant Professor in 1907, and Professor of Animal Husbandry in 1913.

Herbert Andrew Hopper, Extension Professor of Animal Husbandry, died in Ithaca on November 26, 1937. He was appointed Assistant Professor in Extension in 1911, served as Lecturer in Winter Courses in 1912, and in 1913 was elected Extension Professor of Animal Husbandry.

Myron A. Lee, Professor of Industrial Engineering, died in Ithaca on May 8, 1938. In 1909 he was appointed Instructor in Experimental Engineering, in 1910 Instructor in Machine Design, in 1916 Assistant Professor of Machine Design, in 1921 Assistant Professor of Industrial Engineering and, in 1924 was elected Professor of Industrial Engineering.

Edward Leamington Nichols, Professor of Physics, Emeritus, died in West Palm Beach, Florida, on November 10, 1937. He graduated from the University in 1875. In 1887, he returned to Cornell to become Professor of Physics and head of the department, appointments which he held until his retirement in 1919, when he was elected Professor of Physics, Emeritus.

Albert Charles Phelps, Professor of Architecture, died on July 4, 1937. He joined the staff of the College of Architecture in 1899 as Instructor. In 1903 he was appointed Assistant Professor and, in 1913, Professor of Architecture. In 1920 Professor Phelps was elected to the Memorial Professorship in Architecture commemorating the services of Cornellians in the World War.

Hugh Daniel Reed, Professor of Zoology, died in Ithaca on August 23, 1937. Graduating from the University in 1899, he was at once appointed Assistant and, in 1902, Instructor in Zoology. In 1903 he received the Cornell Ph.D. degree and, in 1906, was advanced to the rank of Assistant Professor of Neurology and Vertebrate Zoology. In 1919 he was elected Professor of Zoology.

Louis C. Schroeder, Assistant Professor of Pediatrics in the Medical College in New York City, died February 25, 1938. In 1919 he was appointed Instructor, in 1921 Associate, and in 1924 Assistant Professor of Pediatrics.

Olin Whitney Smith, Secretary of the Colleges of Agriculture and Home Economics, died in Ithaca on May 29, 1938. A graduate of the College of Agriculture in 1912, he was appointed Assistant to the University Registrar, in 1917 Assistant Registrar of the College of Agriculture, in 1920 Assistant Secretary and, in 1926, Secretary of the Colleges of Agriculture and Home Economics.

George Frederick Warren, Professor of Agricultural Economics and Farm Management, died on May 24, 1938. He began service at Cornell as Assistant Professor of Agronomy in 1906. In 1909 he was appointed Professor of Farm Management and, in 1919, head of the Department of Agricultural Economics and Farm Management, the capacity in which he served until his death.

During the year, sixteen members of the University faculty retired on account of age and were elected emeritus professors. The list of these men follows:

- W. C. Baker, Professor of Drawing.
- W. D. Bancroft, Professor of Physical Chemistry.
- Frederick Bedell, Professor of Physics.
- Madison Bentley, Professor of Psychology.
- G. W. Cavanaugh, Professor of Chemistry.
- E. M. Chamot, Professor of Chemistry.
- W. J. Elser, Professor of Applied Pathology and Bacteriology.
- A. B. Faust, Professor of German.
- O. A. Johannsen, Professor of Entomology.
- H. N. Ogden, Professor of Sanitary Engineering.
- J. T. Parson, Professor of Engineering Drawing.
- F. R. Sharpe, Professor of Mathematics.
- F. M. Smith, Professor of English.
- Virgil Snyder, Professor of Mathematics.
- William Strunk, Professor of English.
- E. H. Wood, Professor of Mechanics of Engineering.

In addition to these emeritus professors, Dr. U. P. Hedrick, Director of the New York State Agricultural Experiment Station at Geneva, reached retiring age and withdrew from active service at the middle of the year. Another retirement after many years of devoted service was that of Miss Ellen B. Canfield, Instructor in Physical Education at Ithaca.

A number of resignations were presented in the course of the year, as follows:

- George Young, Jr., as Dean of the College of Architecture.
 W. C. DeVane, Head of the Department of English and Professor of English.
 G. F. Warren, as Head of the Department of Agricultural Economics.
 H. W. Edgerton, Professor of Law.
 J. J. Fulmer, Professor of Military Science and Tactics.
 H. P. Camden, Assistant Professor of Architecture.
 Colin Carmichael, Assistant Professor of Machine Design.
 Marian Fish, Assistant Professor of Home Economics.
 M. L. Hulse, Assistant Professor of Rural Education.
 C. F. Jellinghaus, Assistant Professor of Clinical Obstetrics and Gynecology.
 J. G. Jenkins, Assistant Professor of Psychology.
 T. E. LaMont, Assistant Professor of Land Economics and Assistant Land Economist in the Experiment Station.
 P. P. Pirone, Assistant Professor of Plant Pathology and Assistant Plant Pathologist in the Experiment Station.
 J. N. Spaeth, Research Assistant Professor of Forestry and Silviculturist in the Experiment Station.
 W. J. Stainsby, Assistant Professor of Medicine.
 L. F. Welanetz, Assistant Professor of Mechanics.
 W. H. York, Assistant Professor of Hygiene.
 L. M. Cooley, Associate in Research, Agricultural Experiment Station.
 C. D. Kelly, Associate in Research, Agricultural Experiment Station.
 W. H. Rankin, Associate in Research, Agricultural Experiment Station.

In part replacing these heavy losses and in part providing net additions to the previous staff of the University, the following appointments or promotions of faculty grade were made in the course of the year:

University Administration:

George F. Rogalsky, Comptroller.

College of Arts and Sciences:

- H. J. Davis, Chairman of the Department of English.
 R. P. Agnew, Professor of Mathematics.
 J. R. Collins, Professor of Physics.
 James Hutton, Professor of Classics.
 J. G. Kirkwood, Todd Professor of Chemistry.
 Knight Biggerstaff, Assistant Professor of Chinese History.
 J. L. Hoard, Assistant Professor of Chemistry.
 M. L. Hulse, Assistant Professor of Education.
 C. W. Jones, Assistant Professor of English.

George Kreezer, Assistant Professor of Psychology.
 Victor Lange, Assistant Professor of Germanic Languages.
 L. A. Parratt, Assistant Professor of Physics.
 J. A. F. Randolph, Assistant Professor of Mathematics.
 B. L. Rideout, Assistant Professor of Romance Languages.
 Heinrich Schneider, Assistant Professor of Germanic Languages.
 F. O. Waage, Jr., Assistant Professor of Classics and of Fine Arts.
 R. J. Walker, Assistant Professor of Mathematics.

College of Engineering:

S. C. Hollister, Dean of the College of Engineering.
 W. N. Barnard, Director of the Sibley School of Mechanical Engineering.
 P. M. Lincoln, Acting Director of the School of Electrical Engineering.
 W. L. Malcolm, Director of the School of Civil Engineering and Professor of Civil Engineering.
 F. H. Rhodes, Director of the School of Chemical Engineering.
 P. H. Underwood, Acting Director of the School of Civil Engineering.
 F. G. Switzer, Head of the Department of Mechanics.
 J. N. Goodier, Acting Professor of Mechanics.
 P. H. Black, Assistant Professor of Machine Design.
 H. T. Jenkins, Assistant Professor of Civil Engineering.
 C. I. Millard, Assistant Professor of Industrial Engineering.
 C. M. Pendleton, Assistant Professor of Civil Engineering.
 O. J. Swenson, Assistant Professor of Chemical Engineering.
 C. W. Terry, Assistant Professor of Automotive Engineering.
 L. F. Welanetz, Assistant Professor of Mechanics.
 C. C. Winding, Assistant Professor of Chemical Engineering.

College of Architecture:

Gilmore D. Clarke, Dean of the College of Architecture.
 J. N. Tilton, Jr., Acting Dean 1937-38, Assistant Dean 1938-39.
 Ross Braught, Acting Assistant Professor of Fine Arts.

Law School:

A. J. Keeffe, Assistant Professor.
 G. T. Washington, Assistant Professor.

Medical College:

Vincent du Vigneaud, Head of the Department of Biochemistry and Professor of Biochemistry.
 W. C. Munly, Professor of Military Science and Tactics.
 F. E. Adair, Associate Professor of Clinical Surgery.
 Jacob Furth, Associate Professor of Pathology.
 A. L. Lincoln, Associate Professor of Clinical Medicine.
 R. A. Moore, Associate Professor of Pathology.
 H. G. Wolff, Associate Professor of Medicine.

- O. D. Anderson, Assistant Professor of Physiology (Ithaca Division).
D. M. Angevine, Assistant Professor of Pathology.
Parker Dooley, Assistant Professor of Pediatrics.
H. W. Ferris, Assistant Professor of Pathology.
F. E. Forkner, Assistant Professor of Clinical Medicine.
T. P. Magill, Assistant Professor of Bacteriology and Immunology.
A. A. Marchetti, Assistant Professor of Obstetrics and Gynecology.
C. H. Smith, Assistant Professor of Clinical Pediatrics.
J. H. Wall, Assistant Professor of Clinical Psychiatry.

New York State College of Agriculture:

- W. I. Myers, Head of the Department of Agricultural Economics and Farm Management.
C. E. Palm, Head of the Department of Entomology and Professor of Entomology and Entomologist in the Experiment Station.
A. B. Burrell, Professor of Plant Pathology and Plant Pathologist in the Experiment Station.
L. S. Cottrell, Jr., Professor of Rural Social Organization and Rural Sociologist in the Experiment Station.
L. A. Emerson, Professor of Industrial Education (also on the Faculty of the College of Engineering).
F. A. Harper, Professor of Marketing and Investigator in Marketing in the Experiment Station.
G. F. MacLeod, Professor of Economic Entomology and Entomologist in the Experiment Station.
B. V. Moore, Acting Professor in Rural Education.
L. F. Randolph, Professor of Botany and Cytologist in the Experiment Station.
Ora Smith, Professor of Vegetable Crops and Investigator in the Experiment Station.
Damon Boynton, Assistant Professor of Pomology and Assistant Pomologist in the Experiment Station.
R. W. Cummings, Assistant Professor of Soil Technology.
W. M. Curtiss, Assistant Professor of Marketing and Investigator in Marketing in the Experiment Station.
A. W. Dimock, Assistant Professor of Plant Pathology and Assistant Plant Pathologist in the Experiment Station.
T. R. Hansberry, Assistant Professor of Toxicology and Assistant Toxicologist in the Experiment Station.
C. M. Mottley, Assistant Professor of Limnology and Limnologist in the Experiment Station.
R. A. Olney, Acting Assistant Professor of Rural Education.
Kenneth Post, Assistant Professor of Floriculture and Assistant Floriculturist in the Experiment Station.
W. A. Smith, Acting Assistant Professor of Rural Education.
E. F. Wallihan, Assistant Professor of Forestry and Silviculturist in the Experiment Station.

- H. J. Brueckner, Extension Professor of Dairy Industry.
 B. A. Jennings, Extension Professor of Agricultural Engineering.
 T. N. Hurd, Extension Assistant Professor of Marketing.
 L. W. Lamb, Extension Assistant Professor of Animal Husbandry.

New York State College of Home Economics:

- Flora M. Thurston, Acting Professor of Home Economics Education.
 Gladys Butt, Assistant Professor of Home Economics.
 Carrie C. Williams, Professor in Extension Service and Assistant State Leader of Home Demonstration Agents.
 Muriel Brasie, Extension Assistant Professor of Home Economics.
 Helen P. Smith, Acting Extension Assistant Professor of Home Economics.

New York State Veterinary College:

- M. G. Fincher, Professor of Veterinary Obstetrics.
 H. L. Gilman, Research Professor of Veterinary Medicine.
 H. C. Stephenson, Professor of Materia Medica.

New York State Agricultural Experiment Station at Geneva:

- P. J. Parrott, Director.
 Hugh Glasgow, Chief in Research and Head of the Division of Entomology.
 F. Z. Hartzell, Chief in Research in Entomology.
 Olav Einset, Associate in Research.
 F. L. Gambrell, Associate in Research.
 A. W. Hofer, Associate in Research.
 L. B. Norton, Associate in Research.
 G. W. Pearce, Associate in Research.
 R. F. Suit, Associate in Research.
 C. O. Willits, Associate in Research.

Hygiene and Preventive Medicine:

- Muriel Cuykendall, Assistant Professor.

Military Science and Tactics:

- W. C. Potter, Professor.

Supplementing the continuing personnel of the University, two distinguished visiting lecturers were in extended residence during the first half of the year:

On the Messenger Lectureship on the Evolution of Civilization, Professor Edward J. Dent of Cambridge University, England.

On the George Fisher Baker Lectureship in Chemistry, Professor Linus Pauling of the California Institute of Technology.

The full details that have just been given make it quite evident that 1937-38 was a year of heavy turnover. Some of the losses were grievous, even if altogether inescapable. From an institutional point of view, reassurance is to be had only as the ranks are filled by promising and able replacements. The list of appointments and promotions tells the story of the effort that has been made to accomplish this

purpose. It is our opinion that, taken as a whole, the replacements and additions made during the year may be regarded with both confidence and satisfaction.

THE STUDENT BODY

The student body enrolled during the year ended June 30, 1938, was the largest in the history of the University. The total number of students was 6684, compared with 6341 the previous year. The number of degrees conferred during the year was 1446. The number of students enrolled and degrees granted in the several colleges and schools of the University during 1937-38 is given in the following table:

NUMBER OF STUDENTS ENROLLED AND DEGREES GRANTED, 1937-38

<i>College or School</i>	<i>Students Enrolled</i>	<i>Degrees Granted</i>
Arts and Sciences	1980	383
Engineering	1025	156
Architecture	129	24
Law	149	49
Medicine	289	66
Agriculture	1513	237
Home Economics	449	89
Hotel Administration	271	43
Veterinary Medicine	154	31
Graduate School	955	237 Masters 131 Doctors
	6914	1446
Duplicates to be deducted	230	...
Total for University	6684	1446
Summer Session	1996	

The continued increase in the size of certain of the colleges raises questions of University policy which before long will have to have the attention of the Board. On the other hand there are two or three of the colleges and schools which could undoubtedly work to the advantage of all concerned with somewhat larger student bodies than they now have.

Even more important questions regarding the student body have to do with its quality. Cornell has never failed to maintain high standards of admission, and has always had a student body marked by earnestness and academic accomplishment. The fact remains that there is, has been, and probably always will be room for improvement. An able faculty cannot do its work satisfactorily without a student body of high quality, and no measure should be neglected that gives

promise of drawing to the University better and better student material. In this connection the splendid results already obtained from Cornell Day, the work of the committee of the Alumni Corporation, and the activities of some of the local clubs are to be noted and warmly commended. Additional funds for scholarships—very much needed except in the Engineering College where the McMullen funds are filling much of the present need—would help greatly. The problem is one of major importance and will have the sustained attention of the present administration.

CHANGES OF ORGANIZATION

One of the most important developments of the year was the establishment of a School of Chemical Engineering in the College of Engineering. Heretofore the work in this field has been carried on in the Chemistry Department of the College of Arts and Sciences, through which a degree of Bachelor of Chemistry has been awarded. This degree and the special curriculum leading to it will no longer be given in the College of Arts and Sciences. The new Engineering School will offer a five-year course leading to the degree of Bachelor of Chemical Engineering, together with graduate work leading to the Master's and Doctor's degrees. Professor F. H. Rhodes, who has been so successfully directing the work in the College of Arts and Sciences during recent years, has been made Director of the new school in the College of Engineering.

After an extended exchange of views both within the University Faculty and between the Faculty and the Trustees, steps were finally taken in the Spring of 1938 to create a more representative and adequate University Library Council. The new Council is to consist of the President of the University, the Provost, and the University Librarian, *ex officio*, and eight other members appointed by the Board of Trustees. One of the eight is to be appointed from the Board of Trustees, and the remaining seven from the University Faculty upon nomination by the President. At the request of the Trustees, the President of the University will serve as chairman of the Council during 1938-39. The basic problem facing the Council is the common one of working out a satisfactory coordination of the services and resources of the outlying collections while preserving for the administration of these special collections a reasonable degree of autonomy. The dimensions of the problem can be inferred from the fact that sixteen libraries on the campus outside the main library building hold about 240,000 of the University's total collection of slightly more than 1,000,000 items. The task of the new Council is doubtless a difficult one but there is every reason to believe that, given time, it can be successfully accomplished.

Vigorous promotion of significant research is an earmark of all the ranking institutions of higher learning. Happily there has always been a gratifying amount of effective research going on at Cornell, and

probably at no time as much as now. The fact remains that the situation is spotty, and that there are parts of the University in which, for lack of resources or will or capacity, there is little scholarly or scientific activity of the research sort at the present time. Some campus-wide agency to keep fully informed regarding the situation, to offer all possible stimulation to worthy undertakings, to advise on the allocation of general funds applicable to research, to devise in general a strategy of research promotion throughout the University, has seemed to be clearly desirable. This led during the year to the creation by Trustee action of a Committee on Research consisting of three representatives each from the Board, from the administrative officers of the University, and from the University Faculty. Already the Committee, under the chairmanship of Dean Richtmyer of the Graduate School, has discovered leads which give promise of worthwhile service to the research interests of the University.

One of the most significant administrative innovations of the year was made in the College of Arts and Sciences where a new system of department chairmanships was adopted. Hereafter in this College a chairman for each department will be appointed by the Trustees for a specified term of years on recommendation of the Dean of the College and the President of the University. Ordinarily the term of appointment will be for five years, with a presumption that one—not more than one—reappointment for a like term will be in order. The department chairman will be expected under this system to develop under democratic procedures a constructive administrative leadership for his department, always with the understanding that after a period of years administrative responsibilities will be relinquished and full professorial duties in teaching and research resumed. It will take time, of course, to expose such advantages as the new system may have, but in a number of directions it would appear to give excellent promise.

With the year 1937-38, the Ithaca Division of the Medical College brought to a close forty years of successful teaching of medical students. During recent years only first-year students have been instructed at Ithaca; hereafter all medical students will be admitted only at the Medical College in New York City. This change, ordered by the Board of Trustees just before the present administration took office, leaves the Ithaca Division of the Medical College in clear need of redirection. Much of the instruction which the Division has been offering surely should be continued, for work in such subjects as anatomy, physiology, bacteriology, and biochemistry is of great interest to many students who have no idea of going into medicine. What is needed is an effective coordination of the work in biology as it now appears in several departments in four different colleges of the University. The present situation is a complicated one and it may take some time to formulate and execute a sound and comprehensive plan of reorganization.

At the Medical College in New York City several important developments occurred in the course of the year. The opening of the City's new Kips Bay-Yorkville Health Center, only a few doors from the College, has greatly improved the facilities for research and teaching available to Dr. Smillie and his associates in the Department of Public Health and Preventive Medicine. Almost all of the two top floors of the new four-story building on East 69th Street has been turned over to the College, and facilities for teaching in the clinics of the center, as well as in the field of the health district, promise to strengthen materially the Department's entire program. Real satisfaction can be taken in the cooperative measures which are being worked out between the University and the City to the clear advantage of both.

Another change made at the Medical College during 1937-38 affected the Department of Obstetrics and Gynecology. This department, handling one of the major clinical branches in medicine, and responsible for an important section of the work of the Medical College, has been supported heretofore entirely by the New York Hospital. Arrangements adopted jointly by the Trustees of the University and the Governors of the Hospital and effective July 1, 1938, bring the Department of Obstetrics and Gynecology into the same relationship to the College in matters of administration and budget as has prevailed for some time with such clinical departments as Medicine and Surgery. Hereafter support for the teaching and research of all of these departments will come through a joint checking account into which the University and the New York Hospital will be transferring funds in approximately equal amounts. Only one of the clinical departments of the College—the Department of Psychiatry—remains outside of this plan and operates on a budget completely independent of the budget of the College. It is hoped that in time support of this department too can be brought under the mechanism of the joint account.

Among the most gratifying developments of the year at the Medical Center was the increasing cordiality of the relations between the College and the Hospital as evidenced in particular in the operations of the Joint Administrative Board of the New York Hospital-Cornell Medical College Association. The work at the Medical Center can achieve distinguished success only as there is genuine unification of the three essential lines of service—medical care, professional training, and scientific investigation. This unification cannot be brought about unless the authorities of the University and Hospital find ways and means of pulling together. The best chances of effective cooperation appear to lie in the work of the Joint Administrative Board; and the revitalization of this body during 1937-38 under the admirable chairmanship of Mr. Henry G. Barbey (since deceased) bodes well for the future of the Center.

THE PHYSICAL PLANT

During 1937-38 changes in the physical plant of the University were not large. However, one important new building was completed and finally "placed on the books." This was Moore Hall, the new laboratory building for the Veterinary College, constructed by the State under an appropriation of \$285,000. Funds have not yet been provided for the complete equipment of the building but it will be in effective use during 1938-39 and constitutes a splendid addition to the laboratory facilities of the College.

Fire, visiting the campus in January 1938, completely destroyed the horse barn of the College of Agriculture. Fortunately none of the valuable stock was lost. The State has since appropriated \$45,000 for rebuilding the barn and \$4,615 for partial replacement of equipment. Reconstruction on the same site will be undertaken during 1938-39.

Negotiations with the late Professor George F. Warren led during the year to the final purchase of the bulk of the Warren Farm at Forest Home at a price of \$21,520.37. An area of about 114 acres, contiguous to other tracts already held by the University, was through this transaction added to the University's extensive holdings either in or close to the main campus.

Four building projects of modest proportions, started during the year, will not be completed until 1938-39. The most substantial of the four is the University's new store and service building at East Ithaca. The estimated cost of this building is \$80,000. Two of the structures are for the College of Agriculture, one a set of potato greenhouses to cost \$30,000, the other a set of insectary greenhouses to cost \$40,000. Funds for these buildings have been provided by the State. The fourth of the new projects is a small laboratory at the Varna Farm on which Dr. Howard Liddell is conducting his researches on experimental neuroses. The Rockefeller Foundation generously supplied \$6,500 of the \$12,500 required for this structure.

PRESSING NEEDS AND FUND RAISING

A special committee of the Board, under the chairmanship of Trustee Gherardi, undertook early in the year to make a comprehensive canvass of the more urgent needs of the endowed colleges at Ithaca. The results were in some ways discouraging, for when even minimum requirements were added together the total looked distressingly large. The fact remains that the pressing need for such additions to the University's resources as ought to be provided in a new library building, a modernized plant for the Engineering College, new indoor sports buildings for both the men and the women, increased endowment for salaries and research, cannot be fairly questioned, and that funds for these and other purposes must be raised in due course and without too much delay.

Having given careful attention to the full report of the Committee on the Needs of the Endowed Colleges, the Board of Trustees at its meeting in October, 1937, voted to set up a committee to initiate and coordinate actual fund-raising activities. The new committee, consisting of the chairman of the Board, the president of the University, and the chairmen of the three standing committees of the Board, has since organized and started work under the chairmanship of Trustee J. DuPratt White. It is not the intention of the committee to attempt any high-pressure drive or dragnet campaign, but rather to seek to implement a continuous appeal over the years to those who might be led to invest in the University-wide program of enduring service. No action taken by the Trustees during the year carries a potential importance comparable with that lying in the adoption of this new fund-raising program.

THE FINANCES OF THE YEAR

The record of the actual finances of the University for the year 1937-38 is covered at length and in detail in the report of the Comptroller, and need not be repeated here. It may not be amiss, however, to call the attention of the Board to two sections of the Comptroller's report which the President's Office has found to be of special interest. These two sections have to do with the operating balance as of June 30, 1938, and the gifts made to the University during the year.

The new administration made every effort during the year to avoid an operating deficit for the year as a whole. Thanks in part to increased student enrollment and hence larger tuition receipts, this did not prove difficult. As the end of the year approached, an operating surplus of about \$30,000 appeared to be in prospect. On recommendation of the President, a number of special appropriations were then approved by the Trustees. These provided for (1) new equipment for the Engineering College, \$15,000; (2) a supplementary book accession fund for the University Library, \$5,000; (3) a fund in support of faculty researches, to be allocated in small grants-in-aid by the new Trustee-Faculty Committee on Research, \$5,000; (4) repairs and alterations in Rockefeller Hall in which the Physics Department is housed, up to \$5,000. The action of the Board in approving these much-needed appropriations was sincerely appreciated by the administration. Despite these special grants, the accounts for the year were closed on June 30, 1938, with a surplus of \$870.20.

Gifts to the University during 1937-38 totaled \$1,333,194.40. Of this total, \$503,128.13 was in general-purpose endowment funds, and \$353,998.73 in endowment funds for student aid. Gifts of unrestricted funds for current purposes amounted to \$67,846.43, of which the always-welcome contributions from the alumni through the Cornellian Council totaled \$39,712.73. Total contributions, restricted and unrestricted, through the Council were \$140,080.26. A large number of grants in support of specific researches came from founda-

tions, scientific societies, individuals and business organizations. The complete list of the generous contributors to whom the University was indebted during the year is given in Schedule 51 of the Comptroller's Report.

ORGANIZATION OF THE TRUSTEES

The membership of the Board of Trustees was affected during the year by the following developments:

J. F. Schoellkopf's service on the Board came to a close at the end of the year with the expiration of his second five-year term as Alumni Trustee.

At the meeting of the Board on June 20, 1938, F. E. Gannett, F. W. Olin, E. B. Whitman were reelected Trustees of the University, each for a term of five years.

Myron C. Taylor was reappointed by Governor Lehman as a Trustee of the University for a term of five years.

Holton V. Noyes was appointed by the Governor as Commissioner of Agriculture and Markets in New York State and thereby became a Trustee of the University.

In June 1938, Thomas I. S. Boak and George H. Rockwell were elected by the Alumni as Trustees, each for a term of five years.

In the course of the year the committees of the Board were subject to the following actions:

Bancroft Gherardi was reelected chairman of the Committee on General Administration.

Frank E. Gannett was reelected a member of the Committee on General Administration.

F. W. Olin and E. B. Whitman were reelected members of the Committee on Buildings and Grounds.

Frank H. Hiscock, President Day, and the chairmen of the three standing committees (Trustees Bancroft Gherardi, Stanton Griffis, and J. DuPratt White) were constituted a new Board Committee on Funds for the Endowed Colleges.

A number of other appointments by the Board were made during the year:

Trustee R. E. Treman was named the Trustee member and Trustee George R. Pfann the Alumni member of the Board of Athletic Policy.

Trustee Mary Donlon was made the Trustee member of the newly-constituted Library Council.

Trustee N. H. Noyes, J. W. Parker, and W. C. Teagle were appointed Trustee members of the new Trustee-Faculty Committee on Research.

President Day was made an ex-officio member of the Joint Administrative Board of the New York Hospital-Cornell Medical College Association.

Trustee R. H. Williams was reelected a member of the Medical College Council.

F. L. Ackerman was reappointed a member of the College of Architecture Council.

R. B. Meigs was appointed Secretary and J. E. Mathews Assistant Secretary of the Board.

In January 1938, the Board of Trustees met for the first time at the Medical Center in New York City, the Governors of the New York Hospital generously making their own Board room available for the meeting. At luncheon the Trustees were guests of the Governors, and later in the day there was opportunity to look over the splendid quarters and interesting work of both the Medical College and the Hospital. The arrangements proved so highly satisfactory that the Board may wish to consider the desirability of holding other meetings at the Center in New York.

The friendly and generous cooperation which the Trustees have accorded the new administration during its first year in office have been deeply appreciated. The president is eager to collaborate in every possible way with the Board in furthering the welfare of the University. In the interest of a wise conservation of the Board's available time and thought, the administration proposes to handle routine and less important matters requiring Trustee action as far as possible through the Committee on General Administration, thus freeing the meetings of the Board for the consideration of questions of broad policy or major moment. It is already evident that questions of this sort are bound to arise in considerable number within the next two or three years.

EDUCATIONAL OUTLOOK

To an unusual extent, formal education in this country is engaged at the present time in critical self-examination. This is due in part to a widespread sense of confusion among educators. The confusion which prevails in other quarters—political, economic, social—has inevitably communicated itself to the educators, and in addition the educators suffer from general skepticism regarding the efficacy of long-established educational procedures, as well as the validity of long-respected educational objectives. It is a time of soul-searching and open confession. Upon the whole, conditions are extraordinarily favorable to constructive changes of our educational system at all levels.

It is doubtful, however, whether revolutionary innovations are now in order, at any rate upon a large scale. For the present, wide experimentation at all levels and in a variety of institutions would seem to be a desirable preliminary to any sweeping reform. Thus at the college level certain institutions may strive to eradicate from their curricula all direct vocational interests, others may not only frankly admit their vocational purposes but endeavor to extend and improve the quality of the vocational training they offer; certain institutions may

undertake to confine their work in general education to the first two years of the college curriculum, while others may develop arrangements under which general and special education will be to some extent mixed throughout the four years of undergraduate work. The possibilities of fruitful experimentation are manifold and should be assiduously cultivated as the resources and circumstances of individual institutions permit.

The new administration of the University is convinced that there are certain lines of new development which may wisely be induced at Cornell over the next few years. The University has its own individual characteristics, its own special elements of strength. Out of these, fresh contributions to the further improvement of higher education in America can be surely fashioned. In the years that lie ahead the new administration proposes to collaborate in every possible way with other branches of the university in maintaining for Cornell its recognized position among the country's outstanding institutions of higher learning and public service.

EDMUND E. DAY,
President.

SUMMARY OF FINANCIAL OPERATIONS

To the President of Cornell University:

The fiscal year July 1, 1937 to June 30, 1938 is the first since 1924-25 in which the University's current expenditures were covered by income. The application of the balance, together with other adjustments, resulted in a reduction of the accumulated operating deficit from \$624,531.51 to \$565,770.08. There was also a small reduction in the amount due on the "Plant Additions" account, that item now standing at \$1,111,367.84. The Medical College (a separate accounting unit) also lived within its income. Likewise, the income applicable to the Colleges of Agriculture, Home Economics, Veterinary Medicine, and the Experiment Station at Geneva (each separate accounting units) covered expenditures.

The operations of the University's consolidated endowment investments resulted in an average rate of return of 4.2867% on book values. Last year the rate earned was 4.7468%. The steady and relentless retirement of securities carrying coupons and dividends with fair yields, which have been the backbone of our investment portfolio for years, and their replacement by securities with much lower yields, are making it progressively more difficult for our finance committee to check the distinctly downward trend of investment income. The Trustees, having fixed a budgetary rate of return of 4% on endowments for the year under review, made possible the carrying forward of the \$63,249.33 of excess income earned to the Income Stabilization account, bringing that up to \$380,316.09. Excess of profits over losses on sales of securities actually taken, amounting to \$39,707.41, was added to the Insurance Reserve account, which now has a credit balance of \$599,359.29. Gifts and donations for the year totaled \$1,333,194.40. Of this total, \$1,002,486.49 were received either for additions to existing endowment funds or for the establishment of new ones.

The annual report of the Comptroller which contains the detailed reports of the Treasurer, Superintendent of Buildings and Grounds, Manager of Purchases, Manager of Residential Halls, Comstock Publishing Co., Inc., and the Cornell Research Foundation, Inc. will be mailed on application to any interested alumnus.

For all of us in the business offices, the year was saddened by the death, last December, of Comptroller Bostwick. His services in the University Treasurer's and Comptroller's offices, from January 1898, covered practically forty years. This period witnessed a tremendous growth in the University—over tenfold in the value of its educational facilities and nearly fivefold in its endowments. This expansion multiplied the problems of administration and control which, under his guidance, were effectively handled. The first-hand knowledge and experience he acquired during those years are irreplaceable. Together with this expansion came an equally great increase in the complexity of the University's relationships to the State and Federal Governments. Over it all, he applied his sane and considerate judgment. The value of his services to the University, and the way in which he built himself into Cornell, has been set forth in the resolutions adopted by the Board of Trustees at its first meeting after his death. Those of us who were so long and so fortunately associated with him feel his loss keenly and deeply.

Respectfully submitted,

GEORGE F. ROGALSKY,
Comptroller.

APPENDIX I

REPORT OF THE DEAN OF THE UNIVERSITY FACULTY

To the President of the University:

SIR: I have the honor to report for the University Faculty for the year 1937-38.

THE FACULTY MEMBERSHIP

The number of persons holding membership in the Faculty during any part of the year (assistants and instructors are not included) was 630, including 476 in the faculty at Ithaca, 132 in the Medical faculty in New York City, 20 at the Agricultural Experiment Station at Geneva, N. Y., and 2 at the Agricultural Experiment Station on Long Island. Included are 31 emeritus professors at Ithaca, 10 at the Medical College, and 1 at the Geneva Experiment Station.

Of the faculty at Ithaca fifteen members retired from active service during the year: Frederick Bedell, Professor of Applied Electricity on July 12, 1937; Edgar Harper Wood, Professor of Mechanics of Engineering, on August 13, 1937; William Strunk, jr., Professor of English, on October 1, 1937; Wilder Dwight Bancroft, Professor of Physical Chemistry, on October 1, 1937; Francis Robert Sharpe, Professor of Mathematics, on January 31, 1938; and William Charles Baker, Professor of Drawing, Madison Bentley, Professor of Psychology, George Walter Cavanaugh, Professor of Chemistry, Emile Monnin Chamot, Professor of Chemistry, Albert Bernhardt Faust, Professor of German, Oskar Augustus Johannsen, Professor of Entomology, Henry Neely Ogden, Professor of Sanitary Engineering, John Thomas Parson, Professor of Drawing, Frederick Miller Smith, Professor of English, and Virgil Snyder, Professor of Mathematics, all on June 30, 1938. At the Medical College in New York City Dr. William James Elser, Professor of Applied Pathology and Bacteriology retired at the end of the year. By vote of the Board of Trustees these men were transferred to the status of emeritus professors. At the Geneva Agricultural Experiment Station Dr. Ulysses Prentiss Hedrick retired on January 15, 1938 having been on the staff of the Station since 1905 and having served as Director since 1928. Dr. Hedrick was succeeded in the directorship by Dr. Percival John Parrott who has been in charge of the entomological work of the Station since 1904.

On December 1, 1937 Colonel John J. Fulmer was transferred to another post by the War Department and Colonel Waldo C. Potter was on that date appointed in his place as Professor of Military Science and Tactics and Commandant of the Corps of Cadets.

After nearly thirty years of distinguished service to the University, chiefly as Dean of the Colleges of Agriculture and Home Economics and later as Provost of the University, Dr. Albert Russell Mann resigned from the latter post on July 15, 1938 to become Vice-President of the General Education Board with special responsibility for the Board's work in education in the South.

Eleven members of the Faculty died during the year: Albert Charles Phelps, War Memorial Professor of Architecture, on July 4, 1937; Peter Walter Claassen, Professor of Biology, on August 16, 1937; Hugh Daniel Reed, Professor of Zoology, on August 23, 1937; Herman Diederichs, Professor of Experimental Engineering and Dean of the College of Engineering, on August 31, 1937; Edward Leamington Nichols, Emeritus Professor of Physics, on November 10, 1937; Herbert Andrew Hopper, Extension Professor of Animal Husbandry, on November 26, 1937; William Alexander Hammond, Emeritus Professor of Ancient Philosophy and of Aesthetics and former Dean of the University Faculty, on May 7, 1938; Myron A. Lee, Professor of Industrial Engineering on May 8, 1938; Merritt Wesley Harper,

Professor of Animal Husbandry, on May 9, 1938; George Frederick Warren, Professor of Agricultural Economics and Farm Management, on May 24, 1938; and George Lincoln Burr, Emeritus Professor of History, on June 27, 1938.

THE INAUGURATION OF PRESIDENT DAY

Dr. Edmund Ezra Day assumed office as the fifth president of the University on July 1, 1937. The inauguration ceremonies took place on October 8, in the presence of representatives of the State, of many universities and colleges, and of other educational bodies. Besides the inaugural address of President Day, addresses were made by Dr. Ernest M. Hopkins, Dr. James B. Conant, and Dr. Alexander G. Ruthven, the presidents of Dartmouth College, Harvard University, and the University of Michigan, institutions in which President Day has previously served.

ELECTIONS AND APPOINTMENTS

At the October meeting of the Faculty, the Group of Letters elected Professor M. L. W. Laistner to succeed himself as member of the Heckscher Research Council for the four-year period beginning November 1, 1937, and Professor G. L. Hamilton to succeed himself on the Library Council for a term of two years beginning November 1, 1937. The Group of Science elected Professor L. A. Maynard to succeed Professor A. H. Wright on the Library Council for a two-year term beginning November 1, 1937. The President appointed Professor B. S. Monroe to the Administrative Board of the University Summer Session for the four-year term beginning November 1, 1937 in succession to Professor R. E. Cushman whose term expired.

REORGANIZATION OF THE LIBRARY COUNCIL

The problem of the reorganization of the University Library Council has been before the Faculty intermittently over a long period, the chief difficulty in its solution having to do with the degree of autonomy to be given to the college and departmental units of the system. The formulation of the statute recommended by the Faculty as amended and finally enacted by the Board of Trustees reflects perhaps the somewhat uncertain purpose of the Faculty in this matter; while on the one hand it is provided that the Council "shall exercise general supervision over all University libraries" it is also stipulated that "major changes in policy, substantial modifications in the relations and powers of the libraries of the University or enlargements of the Council's own jurisdiction shall be submitted to the University Faculty and the opinion of the Faculty shall accompany any proposals submitted by the Council to the Trustees." Doubtless what is desired is that provision shall be made for full coordination of all library facilities but that direct responsibility for the development of the special library units shall not be wholly removed from those most intimately concerned in their use. The new legislation provides that the Council shall consist of the President and the University Librarian, ex officio, and eight other members to be appointed by the Board of Trustees, one of these eight to be a member of the Board of Trustees and the remaining seven to be members of the University Faculty nominated by the President. As faculty members of the Council the Board of Trustees appointed C. C. Murdock, for five years, M. L. W. Laistner, for three years, W. H. French, for two years, F. A. Southard, jr., for one year, F. H. Bosworth, for five years, W. L. Conwell, for four years, and L. A. Maynard, for three years.

OTHER SUGGESTED CHANGES IN ORGANIZATION

While the question has not been taken up in its entirety, it seems likely that the Faculty will soon review its own relations to the various forms of activity that make up the life of the campus—some of them closely and others more remotely related to the scholastic enterprise, some of them now in the hands of faculty committees, others administered by agencies not connected with the Faculty. As

illustrative examples of such areas of activity we may list: libraries, scholarships and other aids, university lectures, the program of music, the health service, testing and statistical services, employment and placement, social life and conduct, advisory services, the use of automobiles on the campus, the housing of students, the induction of students into the University, athletics, publications, relations to secondary schools. With respect to many of these, question may be raised as to the degree to which they should be developed, the agencies that should be responsible for their control, and the degree of centralization that is conducive to the best results.

Already various aspects of this general problem have come to notice. The serious disturbances in the men's dormitories have raised the question of instituting some form of self-government in these units, the interfraternity council has indicated the need for faculty co-operation in some of its problems, and the faculty Committee on Student Activities, while adhering to the policy of "primary student responsibility" in social affairs, is trying to establish a greater degree of student-faculty collaboration and has asked the Faculty in that connection to consider the desirability of creating the office of Counsellor of Men. In the field of athletics the need of a new alignment of responsibilities seems to be indicated by the question of jurisdiction over eligibility and schedules that has arisen between the faculty Committee on Student Activities and the more recently appointed Board of Athletic Control which is not connected with the Faculty. So also in the field of scholarships and other student aids questions of administration and control are suggested by the emergence of alumni regional scholarships wholly without faculty participation in their administration and by the creation of other new scholarships which involve an amount of routine work hardly suitable to a committee of faculty members.

With respect to most of the campus activities here under discussion, there are, aside from the general public, four bodies that have a direct interest—trustees, faculty, alumni, and students. Obviously the responsibilities of these groups differ greatly in the various areas of activity and these differences should be reflected in the dominance of control that is established. So far as the Faculty is concerned it has, under its statutory power to deal with questions of "University policy" and under the tradition established in American universities, been free to control any features of the campus life that seemed in need of such action, but the traditional faculty policy has been that of exercising a minimum of control and of assuming a minimum of responsibility, and the approach has been largely from the standpoint of the relation of these things to the main scholastic purpose of the institution.

Two somewhat contrasting procedures suggest themselves, each with obvious advantages and disadvantages. One is the present plan under which each party at interest exercises independently, through its own agencies, such influence as seems to it proper. The contrasting method involves setting up joint agencies of control in which all the parties at interest are represented.

There is here the possibility of a profitable reexamination of the various parts of the complex university organism as to their purposes, their organization, their appropriate control. And surely in such a study the central campus activity should not escape scrutiny.

CORNELIUS BETTEN,
Dean of the University Faculty.

APPENDIX II

REPORT OF THE DEAN OF THE GRADUATE
SCHOOL

To the President of the University:

SIR: I have the honor to present the report of the Graduate School for the year 1937-38.

ADMISSION AND ENROLLMENT

Data regarding enrollment and candidacy for degrees are shown in the several tables attached to this report. The following special comments are pertinent.

The enrollment in the Graduate School during the academic year 1937-38 shows a slight increase (2%) over 1936-37. Similarly during the Summer Session of 1937 there was an increase of 3% over the previous summer. There has been a commendable tendency on the part of most departments to require higher attainments on the part of applicants to entitle them to admission to the Graduate School. The Division of Engineering, for example, now accepts as candidates for the several degrees under its jurisdiction only those applicants whose scholastic records as undergraduates place them in the upper half of their respective graduating classes. In all but a few fields of work applicants whose records as undergraduates contain a considerable number of C's and D's (on the A-, B-, C-marking system) are seldom admitted.

In this connection I wish to emphasize the importance of our procedure in referring to the professors in the several fields of study applications for admission to graduate work in the respective fields. The careful consideration which is now being given to such applications by the professors under whom the applicant, if admitted, will later work has automatically raised our standards of admission. As I have previously remarked in these reports, there is no yardstick by which one can measure the quality of our present graduate student body as compared with past years, but the impression is very definite that the caliber of our graduate students is rising steadily year by year.

In several fields the enrollment of graduate students is so large as to tax the facilities of personnel and equipment. In other fields the number of graduate students could be increased without unduly overloading the instructing staff, particularly if one considers the fact that graduate work has a certain "recreational" aspect. I do not mean, however, that graduate work should be regarded as a gratuitous contribution on the part of professors already engaged in a full-time undergraduate program of teaching. The time spent by the professor in the informal direction of a graduate student's program should be regarded as part of the professor's duties and not as "extracurricular" activity. As I have pointed out in previous reports, one of the very important by-products of graduate instruction is the improvement of undergraduate instruction by virtue of the inspiration which the average professor feels as a result of his contact with keen, energetic, graduate students. Obviously to get the full benefit of this by-product we should be careful to see to it that the professor is not overloaded by his combination of graduate and undergraduate teaching.

Of the 955 students who were in residence in the Graduate School during the academic year 1937-38, 518 were candidates for the degree Doctor of Philosophy; 380 were candidates for the several Masters' degrees; and 57 were classified as miscellaneous—Resident Doctors and non-candidates. Of the candidates for the Ph.D., 56% took their major field of work in the State-Supported Colleges; 44% were in the Endowed Colleges. For the Masters' degrees, the corresponding proportions are 52% and 48%.

An inspection of Table IV shows that there have been no major changes in distribution of graduate students among the several fields of study, except that one should call attention to the significant increase in enrollment in Group E—

Engineering and Architecture. A large part of this increase is due to the considerable number of students from China who have been coming to Cornell to take advanced degrees in Civil Engineering. It is gratifying to record that the College of Civil Engineering reports that these students from China, who have had their undergraduate instruction in the Chinese engineering universities, are, with few exceptions, thoroughly well prepared to do a high grade of graduate work. The exceptions are probably no more than would be found among our own graduate students.

Over 13% of our graduate students come from foreign countries. As shown in Table VI, 21 countries were represented during 1937-38. The presence on our Campus of some 200 students, both graduate and undergraduate, from other countries places upon us obligations to these students which extend much beyond our academic offerings. Not only do these students wish to profit by the educational opportunities which they find at Cornell, but they desire to acquire some familiarity with American life and customs. During recent years the University has cooperated, through its Committee on Foreign Students, with the International Association of Ithaca and the Cornell Cosmopolitan Club in acting in an informal way as host to these students from other lands, to the end that during their stay in America they may be made to feel at home. The importance of this service as one item in the fostering of the international good will can not be over-estimated. The service should be extended and improved from time to time as the resources of the University permit.

REQUIREMENTS IN FOREIGN LANGUAGE

During the year several changes have been made in our requirements in foreign language for entrance to candidacy for and for graduation with advanced degrees.

The requirements for entrance to candidacy for the several Masters' degrees in Engineering (M. Chem. E., M.C.E., M.E.E., M.M.E., and M.S. in Eng.) have been changed from three units in one foreign language (with two entrance units in each of two foreign languages as an alternative) to two entrance units in one foreign language.

An increasing number of applicants for admission to the Graduate School have had either no previous training in foreign language or less than the minimum which has been previously required for entrance. Some of these applicants have excellent scholastic records. But the Faculty of the Graduate School has insisted that some training in one or more foreign languages is such an indispensable part of a general education that it has been unwilling to waive the minimum requirements for graduation. Accordingly during the year the Faculty has adopted as an alternative to the entrance units required for admission to candidacy for the several Masters' degrees, the demonstration at entrance of a reading knowledge of one foreign language. In case a student can not present the required entrance units or demonstrate a reading knowledge of one foreign language at entrance, he is required to spend a minimum of three terms as a candidate for the Masters' degree and to demonstrate the required reading knowledge of one foreign language before the beginning of his third term of candidacy.

This legislation is somewhat similar to legislation adopted by the Faculty last year covering the requirements in foreign language for the Ph.D. Candidates for that degree who can not demonstrate a reading knowledge of at least one foreign language at the beginning of candidacy are required to present a minimum of seven terms of residence.

FELLOWSHIPS AND SCHOLARSHIPS

There were available for 1938-39 for graduate study 32 fellowships and 26 scholarships. With three exceptions the highest stipend carried by any fellowship is \$600. Indeed, there are only a few of the six-hundred-dollar fellowships, these being made by combining a four-hundred-dollar fellowship with a two-hundred-dollar scholarship.

For these 58 awards there were 457 applicants considered by the Faculty during February and March, 1938. Of these applicants 68 were holders of undergraduate degrees from Cornell; the remainder were from various institutions in this country and abroad.

When these fellowships were established many years ago the stipend was fixed at such a sum as would be sufficient to provide the student's living expenses during his year of study. He was expected to devote his entire time to graduate work without the necessity of doing outside work to supplement his stipend. Since these early days the cost of living has at least doubled, but the stipends attached to fellowships and scholarships have remained fixed except in those few cases where the Faculty has made a six-hundred-dollar fellowship out of a four-hundred-dollar fellowship and a two-hundred-dollar scholarship. We should attempt as soon as possible to return to the plan under which the fellowships and scholarships were established, namely, to provide the holder with a stipend adequate to meet his living expenses.

The thirty tuition scholarships provided by the Trustees a few years ago are now serving a most useful purpose. The applicants for these scholarships for 1938-39 contained many students of very high caliber. Many of these students deserve additional support. To make such support available the Graduate School should have a fund of several thousand dollars annually which it could allocate to deserving graduate students who, without such assistance, either can not continue at Cornell, or if they continue, work under the handicap of having to spend a large, disproportionate amount of time in earning their living.

LOAN FUND

With the exception of one or two small funds there have been no loan funds available to graduate students at Cornell. Recently, however, the Cornellian Council has solicited from our advanced degree holders contributions toward a fund which is now known as the "Graduate Loan Fund." While this fund is not large as yet, it is serving most usefully. During the past year a number of students have received much needed assistance. I wish to take this opportunity to express officially on behalf of the Graduate School our best thanks to the Cornellian Council for its splendid assistance and particularly to those numerous contributors to the Graduate Loan Fund who by their contributions have not only made the fund possible but have shown a stimulating interest in the work which the Graduate School is doing.

F. K. RICHTMYER,
Dean of the Graduate School.

TABLE I
STATISTICS OF ATTENDANCE OF GRADUATE STUDENTS

a. TOTAL ENROLLMENT

	1937-38	1936-37	1935-36	1934-35	1933-34
Number of students registered during the academic year	955	936	816	753	791
Number of students registered during the summer, as below	829	802	736	625	599
Summer Session	641	634	571	491	453
Personal Direction	188	168	165	134	146

b. COMPARATIVE ENROLLMENT OF GRADUATE STUDENTS FOR FIVE-YEAR PERIODS

1907-08	1912-13	1917-18	1922-23	1927-28	1932-33	1937-38
249	376	279	540	767	1044	955

c. NEW GRADUATE STUDENTS

	During Academic Year	Summer Session
	1937-38	1937
Ph.D degrees	120	33
A.M. and M.S. degrees	147	84
Professional Masters' degrees	88	100
Resident Doctors	7	3
Non-candidates	29	35
Withdrawals after registration	1	3
Total	392	258

TABLE II
GRADUATE STUDENTS RECEIVING DEGREES, CLASSIFIED ACCORDING TO THE DEGREE RECEIVED

	1937-38	1936-37	1935-36	1934-35	1933-34
Masters' Degrees					
Masters of Arts	65	74	72	48	65
Masters of Arts in Education	7	18	10	10	5
Masters of Science	75	82	70	49	55
Masters of Science in Education	33	24	13	5	9
Masters of Science in Agriculture	15	10	13	9	6
Masters of Science in Engineering	11	10	7	7	0
Masters of Forestry	4	3	1	1	3
Masters of Laws	1	0	1	0	0
Masters of Chemistry	2	3	3	0	3
Masters of Architecture	1	0	3	1	0
Masters of Fine Arts	1	1	1	0	0
Masters of Landscape Architecture	1	0	0	0	0
Masters of Civil Engineering	16	16	16	11	7
Masters of Electrical Engineering	1	2	0	0	7
Masters of Mechanical Engineering	4	2	3	2	4
Total Masters' Degrees	237	245	213	142	264
Doctors of Philosophy	131	124	124	136	135
Doctors of the Science of Law	0	1	0	0	4
Total	368	370	337	279	303

TABLE III
GRADUATE STUDENTS CLASSIFIED ACCORDING TO
THE DEGREES FOR WHICH THEY ARE CANDIDATES

	<i>Academic Year</i> <i>1937-38</i>	<i>Summer</i> <i>1937</i>
Doctors of Philosophy	518	197
Doctors of the Science of Law	0	0
Masters' Degrees, as below		
Masters of Arts	114	168
Masters of Arts in Education	2	17
Masters of Science	138	111
Masters of Science in Education	25	212
Masters of Science in Agriculture	37	14
Masters of Science in Engineering	32	8
Masters of Forestry	0	4
Masters of Laws	1	0
Masters of Chemistry	1	1
Masters of Architecture	3	0
Masters of Fine Arts	0	2
Masters of Landscape Architecture	1	0
Masters of Civil Engineering	25	11
Masters of Electrical Engineering	0	0
Masters of Mechanical Engineering	1	4
Non-candidates:		
Resident Doctors	16	7
Non-candidates	38	49
Others (withdrawals, duplicates, etc.)	3	24
Total	955	829

TABLE IV
GRADUATE STUDENTS CLASSIFIED ACCORDING TO THE GROUP
IN WHICH THE MAJOR SUBJECT FALLS

	<i>1937-38</i>	<i>1936-37</i>	<i>1935-36</i>	<i>1934-35</i>	<i>1933-34</i>
Group A, Languages and Literatures	114	108	109	97	110
Group B, History, Philosophy and Political Science	165	172	153	148	161
Group C, Physical Sciences	151	139	135	145	143
Group D, Biological Sciences	236	224	196	190	213
Group E, Engineering, Architecture New York City	88	80	64	71	39
Group F, Science Departments, New York City	7	8	10	12	11
Group G, Agricultural Sciences	116	113	96	54	61
Group H, Law	1	2	4	1	3
Group I, Education	77	71	49	35	50

TABLE V
 INSTITUTIONS FROM WHICH GRADUATE STUDENTS RECEIVED THEIR
 FIRST DEGREES

Acadia University	1	Delaware, University of	1
Adelphi College	2	Denison University	1
Agnes Scott College	1	Denver, University of	2
Albert Lea	1	De Pauw University	3
Alberta, University of	2	Drury College	1
Albion College	1	E. A. Luiz de Queiroz	1
Albright College	1	Eastern Illinois Teachers College . .	1
Alfred University	1	Eastern Kentucky State Teachers . .	1
Allegheny College	4	Eidsvoll Gymnas	1
Alma College	1	Elmira College	3
Amherst College	2	Emmanuel Missionary College	1
Arizona, University of	2	Fisk University	1
Arizona State Teachers College	1	Florida, University of	6
Arkansas, University of	4	Florida State College	1
Baker University	1	Fresno State College	1
Barnard College	1	Fukien Christian University	1
Berlin Agricultural College	1	Furman University	1
Bethany College	1	George Peabody College for	
Bloomsburg Teachers College	1	Teachers	1
Boston College	1	George Washington University	2
Bowdoin College	2	Georgetown College	2
Brigham Young University	3	Georgia State College for Women . .	1
British Columbia, University of	1	Georgia, University of	1
Brooklyn College	3	Georgia School of Technology	1
Brown University	3	Gettysburg College	2
Bucknell University	5	Goucher College	2
Buffalo, University of	2	Great China University, The	1
Buffalo State Teachers College	2	Greenville College	1
Butler University	1	Grove City	1
California, University of	8	Hamilton College	5
California, University of, at Los		Hampton Institute	1
Angeles	1	Hangchow Christian College	1
Carnegie Institute of Technology	1	Harvard University	3
Central State Teachers College	1	Hawaii, University of	2
Chekiang University	1	Hiram College	5
Cheyney State Teachers College	1	Hobart College	3
Chiao Tung University	15	Hunan University	1
Chicago, University of	2	Hunter College	4
Cincinnati, University of	2	Huron College	2
Citadel, The	1	Idaho, College of	1
Clark University	1	Idaho, University of	3
Clemson Agricultural College	8	Illinois, University of	11
Clermont, University of	1	Illinois College	1
Colby College	1	Illinois Wesleyan	1
Colgate University	7	Indiana University	2
Colombia Veterinary College	1	Iowa, University of	2
Colorado, University of	1	Iowa State College	9
Colorado State College	5	Iowa State University	2
Columbia University	7	Ithaca College	2
Connecticut State College	4	Juniata College	1
Cornell University	228	Kalamazoo College	3
Dartmouth College	11	Kansas, University of	3
Davidson College	4	Kansas State Agricultural College . .	7
Dayton, University of	1	Kansas State Teachers College	1

Keil, University	1	Oberlin College	5
Kentucky, University of	3	Ohio, University of	4
Kentucky State College	3	Ohio State University	8
Keuka College	2	Ohio Wesleyan University	4
Lafayette College	2	Oklahoma Agricultural and Me- chanical College	2
Lake Erie College	1	Oklahoma City University	1
Laval University	8	Oklahoma University	1
Lehigh University	1	Omaha, University of	1
Lewis Institute	1	Ontario Agricultural College	2
Lisbon, University of	1	Ontario Veterinary College	2
Livingstone College	1	Oregon State College	1
Long Island University	1	Oslo, University of	1
Louisiana State University	6	Oxford University	3
Lynchburg College	1	Park College	1
McGill University	5	Peiyang University	3
McMaster University	2	Pennsylvania, University of	1
Maine, University of	5	Pennsylvania State College	9
Manchester College	1	Philippines, University of the	2
Manhattan College	1	Piping National University	1
Manitoba, University of	2	Pittsburg, University of	2
Maryland, University of	4	Pomona College	4
Massachusetts Institute of Tech- nology	2	Princeton University	1
Massachusetts State College	13	Puerto Rico, University of	3
Miami University	3	Puget Sound, College of	1
Michigan, University of	4	Purdue University	9
Michigan State College	7	Queens University	1
Michigan State Normal College	1	Radcliffe College	1
Middlebury College	2	Reed Institute	3
Milton College	1	Rhode Island State College	1
Minnesota, University of	5	Rice Institute	2
Mississippi, University of	2	Richmond, University of	3
Mississippi State	3	Roanoke College	1
Missouri, University of	11	Rochester, University of	9
Montana, University of	1	Rockford College	1
Montana State College	1	Rollins College	1
Montreal, University of	12	Russell Sage College	1
Morehouse College	1	Rutgers University	1
Mount Holyoke College	5	St. Anne Classical School	1
Muhlenberg College	2	St. Elizabeth, College of	1
Nanking, University of	13	St. John's University	3
Nebraska, University of	10	St. Lawrence University	3
Nevada, University of	2	St. Thomas College	1
New Brunswick, University of	1	San Diego State College	1
New Hampshire, University of	5	Shanghai, University of	1
New Mexico, University	2	Simmons College	1
New York, College of the City of	4	Skidmore College	2
New York State College for Teach- ers	9	Slippery Rock State Teachers Col- lege	5
New York University	2	Smith College	4
Newark College of Engineers	1	Sofia University	1
North Carolina, University of	2	Soochow University	2
North Carolina Agricultural and Technical College	1	South Carolina, University of	1
North Carolina State College	1	South Carolina State College	2
North Dakota, University of	1	South Dakota State College	1
North Texas State Teachers College	2	Southwestern College	1
Northeastern University, China	1	Stanford University	1
Northwestern University	3	Stellenbosch University	3
		Syracuse University	11

Talladega College.....	1	Virginia State College..	1
Temple University.....	1	Wabash College.....	2
Tennessee, University of.....	4	Wagner College.....	1
Tennessee Agricultural and Me- chanical College.....	1	Warsaw Agricultural College....	1
Tennessee State Agricultural and Industrial College.....	1	Washburn College.....	1
Texas Agricultural and Mechanical College.....	4	Washington, University of.....	8
Texas College.....	1	Washington and Lee.....	2
Texas State College for Women...	1	Washington State College.....	4
Texas, University of.....	1	Washington University.....	1
Thiel College.....	1	Wellesley College.....	1
Toledo University.....	1	Wesleyan University.....	2
Toronto, University of.....	9	West Virginia, University of....	3
Tsing-hua University.....	5	West Virginia State College.....	1
Tufts College.....	1	Western Ontario, University of...	1
Tuskegee Institute.....	2	Western Reserve.....	1
Union College.....	3	Western State College of Colorado.	1
United States Military Academy..	17	Westminster College.....	2
Ursinus College.....	1	Wheaton College.....	3
Utah State Agricultural College....	11	Whittier College.....	1
Vassar College.....	1	William Jewell College.....	1
Vermont, University of.....	5	William and Mary College.....	2
Virginia, University of.....	2	Williams College.....	5
Virginia Polytechnic Institute....	8	Wisconsin, University of.....	8
		Worcester Polytechnic Institute..	1
		Yale University.....	1
		Yenching University.....	3

TABLE VI

GEOGRAPHICAL DISTRIBUTION OF GRADUATE STUDENTS

Alabama.....	4	New Jersey.....	19
Arizona.....	3	New Mexico.....	2
Arkansas.....	7	New York.....	340
California.....	18	North Carolina.....	7
Colorado.....	9	North Dakota.....	1
Connecticut.....	13	Ohio.....	29
Delaware.....	3	Oklahoma.....	6
District of Columbia.....	4	Oregon.....	4
Florida.....	11	Pennsylvania.....	53
Georgia.....	4	Rhode Island.....	3
Idaho.....	8	South Carolina.....	15
Illinois.....	24	South Dakota.....	3
Indiana.....	13	Tennessee.....	8
Iowa.....	11	Texas.....	8
Kansas.....	9	Utah.....	12
Kentucky.....	8	Vermont.....	6
Louisiana.....	8	Virginia.....	23
Maine.....	7	Washington.....	9
Maryland.....	11	West Virginia.....	4
Massachusetts.....	21	Wisconsin.....	4
Michigan.....	14		
Minnesota.....	7	<i>United States Possessions</i>	
Mississippi.....	8	Hawaii.....	2
Missouri.....	13	Philippine Islands.....	2
Montana.....	4	Puerto Rico.....	5
Nebraska.....	10		
Nevada.....	2	Total Number of Students from	
New Hampshire.....	8	United States.....	827

Afghanistan.....	2	Hungary.....	1
Belgium.....	1	India.....	1
Brazil.....	1	Japan.....	1
British Guiana.....	1	Norway.....	1
Bulgaria.....	1	Poland.....	1
Canada.....	48	Portugal.....	1
China.....	53	Siam.....	1
Colombia.....	1	South Africa.....	5
England.....	3	Turkey.....	1
France.....	1		
Germany.....	2	Total Number of Students from	
Greece.....	1	Foreign Countries.....	128

APPENDIX III

REPORT OF THE DEAN OF THE COLLEGE OF ARTS AND SCIENCES

To the President of the University:

SIR: I have the honor to present this report of the College of Arts and Sciences for the academic year 1937-38.

ENROLLMENT

The total enrollment for the year increased from 1885 to 1981. The number includes 183 candidates for the degree Bachelor of Chemistry. In the previous year, 1936-37, the number of such candidates was 159. Students admitted on transfer from other colleges numbered 103, and in the previous year 114.

Because of the extensive services rendered by the College of Arts and Sciences to other colleges of the University, the figures on "student-hours" compiled by the Registrar give a fuller understanding of the work of the College than do the enrollment figures.

A study of student-hours during the past seven years shows that the total amount of formal instruction by the Arts faculty varied from 78,320 student-hours in the two terms of 1931-32, to 71,140 student-hours in 1934-35. There was a small increase the next year, followed by an increase to 75,345 in 1936-37, and another which reached 79,378 student-hours in 1937-38.

During the first five of these seven years the proportion of student-hours of instruction given by the Arts faculty to students of other colleges was almost constant at 31 per cent. During the past two years the proportion has increased to 34 per cent. This growth is chiefly in instruction offered to students of the State Colleges, which has shown a gradual and regular increase from 16.8 per cent of the total student-hours in Arts subjects in 1931-32 to 22.5 per cent in 1937-38. During the same period the student-hours of Engineering students in Arts subjects declined from 13.4 per cent to 10.9 per cent, and of students of Architecture from 1.04 to 0.62 per cent.

There has been, of course, an actual increase in the enrollment of Arts students, and with it has gone an increase in the election of courses by Arts students in other colleges, but these numbers are small. In 1931-32, 1714 student-hours were elected by Arts students in the State Colleges, and in 1937-38 the number was 2119. In courses offered by Engineering and Architecture the number increased from 945 in 1931-32 to 1385 in 1937-38. In the case of the election of subjects offered by the Medical division, the numbers have declined from 2023 in 1931-32 to 1345 in 1937-38.

In brief, the teaching obligations of the faculty of Arts and Sciences have been rapidly increasing by reason of increased enrollments in our own and in the State Colleges. With an anticipated return to normal enrollments in the Colleges of Engineering and Architecture, further demands will be made on the teaching facilities of the Arts College. In order to meet these demands effectively, provision must be made for increases in our teaching staff, and in our physical equipment, in office and class-room space, in laboratory space and equipment.

It was noted that the total student-hours of instruction during the past year exceeded those of 1931-32 by more than one thousand, a number which is equivalent to the full time of some thirty-five students. In 1931-32 the budget of the College was more than \$900,000, whereas last year it was less than \$725,000. This drastic reduction in expenditures has meant curtailments both of staff and of equipment. We must now increase staff and find more adequate housing in order to assume effectively the increasing obligations of teaching.

As an instance of a need long felt and now pressing, the inadequate housing of the departments of Geology and Zoology in McGraw Hall may be cited. Not only is this building ill-suited to the laboratory and research needs of these departments, it also lacks appropriate lecture-room space for the largely attended courses in both subjects. If new and more appropriate housing could be had for these two departments the building might be remodeled for the use of some other departments which are now seriously handicapped by their cramped quarters in Goldwin Smith Hall.

In addition to undergraduate instruction, which is reflected in the figures cited for student-hours, the more informal work of graduate instruction is assumed in some measure by nearly all members of the staff of professorial grade. Professors in the Arts faculty were last year in charge of the major work of about one-third of all students in the Graduate School. This number, reported as 270, included 180 candidates for the doctorate and 90 candidates for a master's degree. Among the arts and sciences the most popular field of graduate study is in the natural sciences and mathematics which enrolled nearly half the candidates (128), with Chemistry leading and Physics next. English and Public Speaking followed with 57. The social studies and History had 41; foreign languages 25; and the subjects, Philosophy, Psychology, Education, and Music, 19.

Apart from graduate work, departments which have shown a notable increase of student-hours during the past seven years are Biology, Economics, English, History, Music, and Public Speaking. Chemistry decreased slightly during the past year, and gradual decreases over the seven-year period may be noted in Classics, Education, German, Physics, and the Romance Languages. Other departments varied from year to year, but on the whole remained fairly constant.

In the election of major fields of study, economics, animal biology, and English lead, followed by government, chemistry, and history. These six fields account for three-quarters of all the major work of the College. Economics has more than one-fifth of all the elections and is increasing. The other subjects vary from year to year, but not regularly. Excepting for a continued interest in the six fields mentioned, there appear to be no marked trends in the selection of fields of concentration.

EDUCATIONAL POLICY

The Committee on Educational Policy has devoted much time during the past year to a discussion of possible changes in the curriculum which might result in a better type of general education in the College. The Committee has had the advantage of pertinent suggestions from the President, and has considered in some detail the plan and workings of the system now in force at the University of Chicago.

From one angle of approach our problem seemed to associate itself with a more adequate provision for the preparation of secondary school teachers. It is obvious that a well-prepared secondary school teacher must be conversant with a wide range of knowledge. The beginning teacher of science may be assigned courses in physics, chemistry, biology, earth science, and also be required to teach some

mathematics. The teacher of French may also teach Latin and perhaps English. The teacher of the social studies may be expected to teach the full range of history, ancient and modern, a specialized course in American history, and in addition civics, economics, and sociology. With present departmental arrangements, it is practically impossible for an undergraduate student to cover the ground of any one of these general fields of knowledge.

In order to satisfy this need more adequately, and at the same time to provide certain less specialized fundamental courses, the Committee on Teacher-Training in the College, under the able direction of its Chairman, Assistant Professor M. L. Hulse, has succeeded in initiating a new type of general introductory course in the fields of the biological sciences, the physical sciences, and the social studies.

The general course in biology which has long been given by the College of Agriculture, has been remodeled to serve as an introduction to the entire field of biology with special regard for the functional aspects of life and organic behavior. This course will be followed by another year-course to be offered first in 1939-40. This two-year sequence of study will afford a broad and useful basis for an understanding of life-phenomena, and at the same time will furnish adequate preparation for advanced work in either botany or zoology.

In the physical sciences, a new year-course in physics, to be followed by one in chemistry, will endeavor to lay a similar foundation for an understanding of physical phenomena. The courses will be so integrated that there is no unnecessary duplication of materials. Together they will aim to cover the entire field of the physical sciences and also give preparation for advanced work in either physics or chemistry.

The projected sequence of two year-courses in the Social Studies, to include a foundational study of economics, government, and sociology, will require more extended preparation. It is hoped that the first year's work can be offered in 1939-40.

The Department of History has modified its requirements for major work so that a student who desires a broad acquaintance with the history of social institutions may follow courses in Ancient, Medieval, Modern European, English, and American History, together with the new two-year sequence in the social studies, as an appropriate program.

Arrangements have been made for a joint major in French and Latin, for a combination of English and Public Speaking, with due regard to work in dramatics, and for a new and simplified course in analytic geometry and the calculus, which will serve as preparation both for advanced work in Mathematics and for work related to the physical sciences.

Already a general course in geology serves as an adequate introduction to the earth sciences, and the general course in psychology relates itself to both the biological and to the social studies.

A further step is under discussion which would reorganize the entire curriculum into divisions of related studies. The divisions proposed for discussion are:

- I. English, including Public Speaking, Dramatics, and the Comparative Study of Literature.
- II. Foreign language, including the Classic, the Romance, and the Germanic languages and literatures.
- III. The Fine Arts, including courses in music, painting, and sculpture, creative literature, and dramatic production.
- IV. Philosophy.
- V. Mathematics.
- VI. The Physical Sciences, including astronomy, physics, and chemistry.
- VII. The Biological Sciences, including botany, zoology, entomology, and the medical sciences.
- VIII. The Social Sciences, including government, economics, and sociology.
- IX. History.

The precise relations of geology, psychology and certain other subjects of instruction to this scheme are matters for further consideration. It is obvious that

no divisions will be or should be entirely self-contained, and a single department will sometimes be called upon to relate itself to, and even to offer courses in, more than one division.

The question of divisional administration is perhaps more serious. Responsibility ordinarily goes with the budget, and divisional authority to integrate and direct related subjects of instruction is often ineffective when the persons concerned are primarily responsible to departmental units. The problem of integrating work offered by different units is especially difficult when these units are administered by different colleges. For instance, work in biology is at present administered under no less than four distinct budgets, two of them supplied by the State.

One idea into which the Committee on Educational Policy has been making inquiry is that of a closer integration of secondary school and college work. Our normal requirements for admission include three units of English, three of a single foreign language, three in mathematics, and one in history. Further requirements of work to be taken in College include a year in English, a fourth year in a foreign language, and a year's course in history. There is at present no requirement of college work in mathematics.

If we believe that these specified entrance subjects are a significant preparation for college, should we not seek a closer articulation between these subjects and the subsequent required work of the College?

The suggestion has been made that a placement examination should be given at entrance to all students in English, in the foreign language in which the required three units are offered, and in mathematics. The results of such examinations might be expected to show whether the student is actually prepared to go ahead in these studies and to place him in courses appropriate to his ability and need.

If he can demonstrate sufficient ability, he might even be released from the College requirements in English and the further study of a foreign language. If, despite his entrance credentials, his ability should prove to be too low, he might be required to take special courses in these subjects, including mathematics.

The proposal met with a good deal of support in the Committee, though it also encountered objection. It was felt by some that no student should be relieved of further work in a foreign language, and by others that no student at entrance could have an adequate knowledge of the English language and its literature. The question of instituting make-up courses of high-school grade was not seriously discussed. All appear to agree that as a means of placement in college courses, such examinations are highly desirable.

There are, however, administrative difficulties. In order to use the results of such examinations successfully it would be necessary to hold them before college opens. In the case of English, and perhaps Mathematics, it would be desirable to require them of all entering students of whatever college. It was therefore concluded by the Committee that the subject should be discussed as a matter of University policy before it is proposed for adoption by the College of Arts and Sciences alone.

It was noted in the course of this discussion that examinations such as we had in mind are already provided in some subjects by the College Entrance Examination Board. If these could be used instead of some of our own making, there might be a greater objectivity in the tests, and the possibility of comparing our results with those of other colleges might be advantageous. The additional expense to the entering student, however, could not be readily borne in all cases.

One farther step in the direction of integrating college work has been taken with the adoption of an inter-departmental seminary for senior students doing major work in the social studies. By the cooperative effort of members of the Departments of Economics, Government, History, and Philosophy, a seminar on "Utilitarianism" has been planned which will be open to selected students in any of these fields as a part of their advanced work. The success of this experiment will be closely followed, and attention will be called to the desirability of joint offerings in other fields of concentration.

DEPARTMENTAL ADMINISTRATION

The administration of the several departments of the College now approaches uniformity with the adoption of the following minute on the subject:

The Faculty approves the following principles for the organization of departments, recognizing, however, that in the application of the principles there may be considerable differences between departments and that a wholly uniform plan of organization may not be attainable or in all cases desirable. The ultimate end to be sought is the active participation of all members of departments in the shaping of general policies, together with a concentration of authority and responsibility requisite to the effective conduct of the department's work.

I. In departments where the size of the staff warrants it, there should be a chairman responsible for the administration of the department. His duties include the making of the department's budget, the recommendation of appointments and promotions, and in conjunction with his colleagues the planning of the department's course of study and all its general policies. One of his most important duties is to inform himself about available scholars, and especially promising young scholars, who might be added to the staff as occasion arises.

II. The business of a department shall be conducted by consultation and discussion, and all matters of general concern shall be decided only after canvassing the opinions of all members of the department who are voting members of the Faculty. Where differences of opinion emerge, the differences ought to be discussed in a meeting of the department and a numerical vote recorded. Recommendations of promotion in rank, and additions to or dismissals from the staff, shall be made only after consultation with at least those members having full professorial rank. In making these recommendations to the Dean and the President, the chairman shall submit a statement of the results of departmental conferences.

III. There is a definite obligation on the part of a department to cooperate with other departments in the common task of the College, and on the part of an individual teacher to adapt his courses to the planned program of his department.

IV. The chairman of a department stands in relations of responsibility to the President, the Dean, and the members of the department. He shall be selected with due regard to the judgment of all concerned and only after consultation with all members of the department who are also voting members of the Faculty. The formal appointment of the chairman shall be made by the Board of Trustees on the nomination of the President and the Dean. With the nomination shall be transmitted the results of consultations on the choice of a chairman.

A chairman shall be appointed for a term of five years, with the possibility of reappointment but with a presumption against appointment for a third term. Preferably a chairman should be of such an age that his retirement from office will occur while he is still able to resume a normal load of teaching and research.

The Board of Trustees has formally approved this minute and has elected the following persons to serve for varying periods until the scheme is regularized in normal five-year terms as prescribed:

Professor Jacob Papish	Department of Chemistry	one year
Professor Harry Caplan	Department of Classics	five years
Professor Donald English	Department of Economics	two years
Professor J. E. Butterworth	Department of Education	one year
Professor A. L. Andrews	Department of German	one year
Professor R. E. Cushman	Department of Government	five years
Professor W. B. Carver	Department of Mathematics	two years

Professor P. J. Weaver	Department of Music	one year
Professor G. W. Cunningham	Department of Philosophy	five years
Professor R. C. Gibbs	Department of Physics	one year
Professor A. M. Drummond	Department of Public Speaking	two years
Professor M. G. Bishop	Department of Romance Languages	three years
Asst. Professor B. P. Young	Department of Zoology	one year

REGISTRATION OF FRESHMEN IN COURSES

The new plan for the registration of Freshmen in their courses which was described in last year's report has proved effective and will be continued. As an aid to the incoming student, a special Bulletin is being printed which contains pertinent information concerning the selection of an appropriate program of studies. A copy of this Bulletin will be sent to each accepted candidate for admission to the Freshman class, and he will be urged to select and bring with him when he registers the program of courses which he wishes to follow during his first term in college. A member of the Advisory Committee will check the student's program and give it tentative approval. At the same time the student will be assigned to an adviser whom he is urged to consult as soon as possible within the ten-day period during which courses may be changed without penalty.

THE TRANSFER OF THE TECHNICAL PROGRAM IN CHEMISTRY
TO THE COLLEGE OF ENGINEERING

The most important legislation of the Faculty during the past year was to approve transfer to the College of Engineering of the technical course in Chemistry which the College has supervised since its inception, about the year 1900. Since 1912, a degree, Bachelor of Chemistry, has been awarded upon completion of this course. This degree is now to be discontinued. Students in the technical course of Chemistry will hereafter register in the College of Engineering as candidates for the degree, Bachelor of Science in Chemical Engineering, which is to be administered by a newly organized School of Chemical Engineering, with Professor F. H. Rhodes, formerly a member of the Department of Chemistry, as Director.

The Department of Chemistry will continue its services and substantial interests in the promotion of the training of chemists, but as a department it now divests itself of administrative responsibility, as does the faculty of the College of Arts and Sciences.

MINOR CHANGES AND REPORTS

The Goldwin Smith Reading Room, hitherto administered by a committee of the faculty of Arts and Sciences, has been placed under the administrative supervision of the University Library. Mr. D. L. Baldwin, formerly an instructor in English, has been named Assistant to the University Librarian, in charge of the Goldwin Smith Reading Room, and of the adjacent James Morgan Hart Library.

Administrative details concerning these collections and their utilization have been placed in the hands of a committee named by the President which includes the University Librarian, the Dean of the College, and the Assistant Professor of English, Professor Nungezer, who continues to serve as Curator of the collections.

Upon the suggestion of the Secretary of the University, the designation Bachelor of Arts with Honors has been changed by the Faculty to Bachelor of Arts with Distinction.

A further development of the college offerings in the Fine Arts, makes possible a new field of concentration in the history of art. A program of courses in this field has been outlined and will be conducted by Assistant Professor Waag , by Professor Finlayson, who in addition to his chair in the faculty of the College of Architecture now takes seat in the Faculty of Arts and Sciences, and by Mr. Paul A. Underwood who joins our faculty to offer certain new courses in the history of art.

For the present the new program in the history of art will be administered by the Committee on Instruction in the Fine Arts under whose auspices a general program of study, which includes the three fields of music, literature, and the visual arts, is now being given.

The Chairman of the Advisory Board, Professor Southard, has distributed the tabulated results of a study of actions taken by the faculty's committees on academic delinquencies during the past four years. The figures are for actions taken in February, and they show that from eleven to thirteen per cent of all students registered have been at this time delinquent in their studies. The proportion of those who have been dropped in February from the rolls of the College has varied from 2.2 to 3.1 per cent, and of those placed on probation for a term from 8.3 to 9.7 per cent. The percentages are highest for freshmen and next highest for sophomores. The proportion of delinquencies among upperclassmen was about half that of underclassmen. A tendency is noticeable for actions on academic delinquency to increase and decrease in alternate years.

Special consideration has been given during the past year to the preparation of students for the study of medicine in our own and in other medical schools. It has long been evident that students looking forward to the study of medicine number at least one-fifth of our students. Of this number, which may be as high as eighty in a graduating class, the Cornell Medical College will ordinarily accept no more than ten or fifteen and the rest must seek admission elsewhere.

In order to facilitate the placement of our students in medical schools, to encourage those who appear to have special fitness for the profession, and to counsel others whose prospects of admission and subsequent success may be doubtful, a new committee has been authorized by the faculty to assume advisory responsibility in the matter. This committee of three will make personal contact with all students who intend to study medicine. The committee will be able to advise students regarding the medical schools to which applications may be made, and the pre-medical requirements to be fulfilled. The committee will also be able to give substantial information to the medical schools in support of applications of Cornell students for admission to them.

Reports from the departments of the college suggest a number of individual problems which will be brought to your attention as occasion permits.

STANDING COMMITTEES OF THE COLLEGE

The administration of the College is largely in the hands of its standing committees, the members of which have been faithful during the past year in the effective performance of all their duties.

The membership of these committees during the past year and the retiring dates of members follow:

Educational Policy: W. C. DeVane, 1938; J. R. Johnson, 1938; C. C. Murdock, 1939; G. H. Sabine, 1939; F. S. Freeman, 1940; F. A. Southard, 1940; R. P. Sibley, R. M. Ogden, *ex officio*.

Recently elected to succeed Professors DeVane and Johnson, whose terms expire in October, are Professor H. B. Adelman and Assistant Professor E. A. Tenney.

Academic Records: L. N. Broughton, 1938; R. W. Church, 1938; M. S. Kendrick, 1938; A. W. Laubengayer (for J. S. Kirkwood), 1939; M. S. Livingston, 1939; M. A. Shepard, 1939; A. W. Boesche, 1940; V. S. Lawrence, jr., 1940; P. E. Moseley, 1940; F. A. Southard, R. P. Sibley, R. M. Ogden, *ex officio*.

Advisory Board for Underclassmen: E. A. Tenney (for J. C. Adams), 1938; B. P. Young, 1938; _____, 1938; C. C. Greene, jr., 1939; J. L. Hoard, 1939; B. L. Rideout, 1939; R. F. Bacher, 1940; J. D. Burfoot, jr., 1940; F. A. Southard (Chairman), 1940; R. P. Sibley, R. M. Ogden, *ex officio*.

Committee on Boldt and Hall Scholarships: V. S. Lawrence, jr., (Chairman) 1938; G. I. Dale, 1939; R. E. Montgomery, 1940.

Committee on Conduct of Examinations: John S. Conable, 1938; W. W. Flexner, 1938; Marjorie E. Hardenburg, 1938; Howard J. Simons, 1938; H. R. Smart,

1938; H. W. Briggs, 1939; Ralph S. Ludington, 1939; L. M. Noss, 1939; C. L. Rossiter, 1939; Madeleine Weil, 1939; J. L. Woodward, 1939; R. P. Sibley, R. M. Ogden, *ex officio*.

Committee on College-Credit Examinations: M. G. Bishop, J. P. Bretz, W. B. Carver, W. C. DeVane, H. E. Howe, R. H. Wagner, F. S. Freeman, Chairman.

Committee on Teacher-Training in the College: H. R. Anderson, M. G. Bishop, H. Caplan, O. D. vonEngeln, B. W. Jones, W. M. Sale, M. L. Hulse, Chairman.

Committee on Pre-Medical Study in the College: H. B. Adelman, M. A. Shepard, V. S. Lawrence, jr., Chairman.

R. M. OGDEN,

Dean of the College of Arts and Sciences.

APPENDIX IV

REPORT OF THE DEAN OF THE LAW SCHOOL

To the President of the University:

SIR: I have the honor to submit the following report regarding the Cornell Law School for the academic year 1937-38.

It is a satisfaction to state that the year has been one of substantial progress. The advances that have been made are attributable not only to the enthusiastic cooperation of all members of the Faculty and to your interest in the problems of the School and the encouragement which you have in so many ways given to its program of development, but also to the effective support of the Board of Trustees and of a loyal body of alumni.

THE FACULTY

This year, for the first time since 1930-31, changes have occurred in the personnel of the Faculty. There has been one resignation from the staff and two new appointments. Professor Henry W. Edgerton, who was appointed to the Faculty in 1929, resigned at the close of the first term of the present academic year to become Associate Justice of the United States Circuit Court of Appeals for the District of Columbia. Professor Edgerton's first association with the Law School was as Acting Assistant Professor of Law from 1916 to 1917, and as Assistant Professor of Law from 1917 to 1919. In 1929, while a member of the Faculty of the University of Chicago Law School, he was recalled to Cornell with the rank of Professor of Law. The courses taught by him during the past eight and one-half years included Criminal Law, Domestic Relations, Public Service, Trade Regulation, and Torts. As a member of our Faculty, he wrote and published in the Cornell Law Quarterly articles entitled "A Liberal Judge: Cuthbert W. Pound", and "The Incidence of Judicial Control over Congress". His sabbatic leave of absence in 1934-35 was spent as assistant attorney general in Washington. It is a satisfaction to have this opportunity of recognizing the value of his service to Cornell as an able teacher and scholar.

At its meeting on January 30, 1938, the Board of Trustees appointed Mr. Arthur J. Keeffe as Assistant Professor, and his association with the Faculty commenced February 1. On April 30, 1938, the Board appointed Mr. George T. Washington as Assistant Professor. Mr. Washington will begin his teaching with the opening of the next academic year. The Board also created a Teaching Fellowship for 1938-39. A recommendation for appointment to this new position will be made during the summer.

Assistant Professor Keeffe received his A.B. degree from Cornell in 1924 and his LL.B. in 1926. From the time of his graduation until his appointment to the Faculty, he practiced in New York City, being continuously associated with the firm of Milbank, Tweed, Hope & Webb, and its predecessors. His practice con-

sisted largely in corporate reorganization and in trial work. During the past term, he has given a course on the Administration of Insolvent Estates, and next year will conduct courses in Evidence and Federal Practice.

Assistant Professor Washington was graduated from Yale College in 1928 with the degree of Ph.B., *summa cum laude*. Upon graduation, he received the Snow Prize of \$500 as "the man who had done the most for Yale." In 1928, he was the ranking man on the Yale team in "The Battle of Intelligence" between Yale and Harvard. After completing a year at the Yale Law School, he went to Oxford as a Rhodes Scholar and studied for two years under the supervision of Sir William Holdsworth, receiving the degree of B. Litt. (Law) from Oxford in 1931. In the following fall, he reentered the Yale Law School from which he received the LL.B. degree in 1932, graduating *cum laude* and as the ranking student of his class. From the fall of 1932 until June 30 last, he practiced in New York City, being associated first with the firm of Carter, Ledyard & Milburn, and later with the firm of Root, Clark, Buckner & Ballantine. He was chiefly engaged in commercial, banking, and corporate work. Next year, he will conduct the first year courses in Personal Property and Agency, and will collaborate with Professor Thompson in the course on Business Regulation and with Professor Stevens in Business Associations.

At the opening of the present academic year, Professor Burdick resumed his teaching duties after the sabbatic leave which was granted him for the second term of the year 1936-37.

Professor MacDonald was on sabbatic leave during the second term of the year just closed.

CURRICULUM AND TEACHING METHODS

In 1936-37, the problem type of instruction was limited to two courses: an advanced course in Jurisprudence, and a course conducted jointly by Professors MacDonald, Whiteside, and Stevens and dealing with the tax implications of problems drawn from the fields of corporations and of trusts and estates. During the current year, Professor Laube continued his course in Jurisprudence. Professors Whiteside and Stevens divided their subjects into two courses. Professor Thompson introduced a problem course in Business Regulation, and Professor Keefe used both the problem and case methods in presenting the course in Insolvent Estates. The number of problem courses offered was, therefore, sufficient to enable every member of the Third Year Class to elect at least one of them without having the enrollment in any course exceed the limitation that would ensure effective work. Since the work in courses of this type has all the educational value of the oral part of the comprehensive examination, with the additional advantage that it is accompanied by supervision and instruction, and since the work of these courses offers an even more adequate basis for judging the student's ability to apply his skill and knowledge and to solve a legal problem upon the basis of independent study, the oral portion of the general examination was eliminated this year.

For 1938-39, a combination of factors will make it possible to offer a substantially enriched curriculum and to increase still further the program of problem work. The principal of these factors is the enlargement of the professorial staff from eleven to twelve and the authorization of a Teaching Fellow. These additions are a gratifying response to the appeal for a Faculty increase contained in the last annual report and were made feasible through the generous assistance of a few alumni whose gifts to the University were made specifically for this purpose.

Other contributing factors are: that in 1938-39 no members of the Faculty will be on sabbatic leave; that the teaching schedule of Professor MacDonald, which was reduced when he became Executive Secretary of the Law Revision Commission, will be returned to a normal load; and that certain rearrangement of the content and assignment of courses will be made.

The first year course in Actions has been abolished and the historical material of that course will be distributed among other first year courses. What was heretofore the second year course known as Property II will be included in the

program of first year work. The scope of the course on Agency will be expanded so that it will not be limited to a consideration of the incidents of the relation between the individual principal and agent and master and servant, but will include a more comprehensive discussion of relational duties generally. The course on Corporations will be expanded into a course on Business Associations and will include a more extensive consideration of the unincorporated as well as the incorporated association. This change will require the addition of one hour to the time allotted to that course, but will effect an economy by the elimination of the separate two-hour course in Partnership.

Several courses, which in the past have been carried in our Announcement, but, because of the size of our Faculty, could be actually presented only occasionally or at most in alternate years, will all be offered next year. This is true of Admiralty, Administrative Law, Municipal Corporations, and Insolvent Estates. But unless the Faculty is still further increased, the exigencies of granting sabbatic leaves will in future years require the temporary elimination of some of the less important courses. To the list of new courses, which this year includes Taxation and Business Regulation, will be added next year a course in Federal Practice and a course in Legislation. The problem work will be expanded next year by Professor Wilson's two courses in Election of Remedies and Exercises in Evidence, and by the adoption of this method for the presentation of the courses in Federal Practice and Legislation. It is hoped to strengthen this type of instruction by having a Teaching Fellow who will devote his time to assisting members of the Faculty in the courses employing this method.

Restrictions upon the use of this method are imposed by the subject matter of some courses. In some instances, the scope of the material which should be included may be so broad as to require a method with which ground can be covered more rapidly. In other instances, the subject matter may be of such general importance as to make it unjustifiable to enforce a limitation upon enrollment and to exclude some of the students who desire to acquire knowledge of that material. In the latter situation, a more wholesale method of instruction may have to be retained, unless the total enrollment in a class can be divided into sections without overburdening the instructor. Sectioning is contemplated as a possibility next year in Business Regulation in which Assistant Professor Washington will collaborate with Professor Thompson, and in Taxation in which Professors Whiteside and Stevens will collaborate.

The maximum of individual instruction of a limited student body has been accepted as the ideal of this Law School. The introduction of the problem courses is the latest attempt to give effect to this policy. If the policy is to be adhered to, as it should be, and if methods of effectuating it are to be perfected, then the size of the student body cannot be permitted to grow unduly and any substantial increase in enrollment must be offset with a corresponding increase of the Faculty.

STUDENT LEGAL AID BUREAU

In connection with teaching methods, attention should be drawn to the newly established relations between the Law School and the Tompkins County Bar Association, envisaging an opportunity for students to participate in legal aid work. Legal services, even when rendered gratuitously, must be performed by persons admitted to the Bar. The giving of legal aid to persons unable to pay therefor is one of the highest functions of the members of the Bar, and the members of the local Bar Association have been conscientiously performing this obligation. A scheme for effective cooperation between the Association and the Law School for rendering legal aid seemed to promise benefit both to the members of the Bar and to the students of the Law School. The burden falling upon any particular member of the Bar called upon to render legal aid will be reduced to the extent that law students can assist him in giving this service. The benefit to the student is found in the fact that legal aid work is a helpful supplement to his Law School instruction. It not only gives him an occasion for the practical application of what he has learned in Law School, but affords him an opportunity

for contact with actual clients, an opportunity for dealing with the human factors, and for planning the solution of a client's problem under the direction of a practicing attorney.

The availability of student assistance to members of the local Bar, and the present plan of cooperation were presented to the Bar Association two years ago, but the culmination of the negotiations into a practicable working arrangement this year was attributable to the existence of an active interest on the part of a group of students who desired this opportunity for public service as well as practical experience. These students organized the Cornell Legal Aid Bureau, elected officers, and admitted to membership all interested members of the second and third year classes. The resolution adopted by the Tompkins County Bar Association provided that the readiness of the members of the Association to render legal aid in all needy cases should be made known to the public and charitable organizations of the county and to the public generally; that the President of the Association, the County Judge, and the City Judge be constituted a committee on legal aid to assign cases to members of the Association in rotation, and that the attorney performing such service might avail himself of the assistance of one or more students of the Law School in performing such service. The plan went into operation on the 1st of April, and within that month four cases were handled. Two cases involved garnishment of wages, the third a fraudulent conveyance, and the fourth the interpretation of a will. It seems reasonable to expect that in spite of the fact that in this community the amount of legal aid work is not large, the number of cases to be handled within a year will not be unsubstantial, and that the requests for such aid will increase when the opportunities for obtaining it become better known, and when the value of student assistance has become more apparent to members of the Bar. If the plan proves to be workable and both pedagogically and socially successful, an effort will be made to enter into similar arrangements with the Bar Associations of contiguous counties.

MOOT COURT WORK

The direction of the First Year Moot Court work was transferred this year to Professor Laube, and, under his direction and with the approval of the Faculty, changes were made in the organization of the work. Until this year, the First Year students had been divided into eight groups, known as clubs. Competition was between the clubs, as such, and each of the two clubs having the highest percentage of victories during the year were eligible to select two of its members to compete in the final public argument. Experience had shown that the system did not always encourage the fullest extent of individual effort on the part of every student and sometimes resulted in the more competent students being excluded from the final competition. Under the reorganized system, clubs are abolished, victories are always personal, and the judging of all arguments except the final one, is done by members of the Faculty who file appraisals of the work of the contestants appearing before them. The contestants in the final public argument are chosen upon the basis of the Faculty appraisals. It is believed that the changes have had the desired effect of stimulating individual interest and effort and of enabling the abler students to qualify for the final argument.

A further incentive for excelling in the Moot Court work resulted this year from the donation of two prizes. One was the gift by a member of the second year class of \$100 which was divided between the contestants in the final argument on the basis of \$60 to the winners and \$40 to the losers. The other was the gift by the Phi Alpha Delta legal fraternity of a cup upon which is to be inscribed each year the name of that student whose performance in the Moot Court has been the most outstanding in the opinion of a committee which includes the Dean, a member of the Faculty in charge of the Moot Court work, and a Faculty member of the fraternity.

The direction of the Moot Court work for next year has been placed in charge of a Faculty committee composed of Assistant Professor Morse as chairman, and Assistant Professors Keefe and Washington. It is expected that such additional changes will be made as will still further improve the quality of the work done.

FINANCIAL ASSISTANCE TO STUDENTS

As indicated in the Report for 1936-37 the scholarship and loan assistance available to deserving students has proved inadequate. An increase in the scholarship fund particularly remains one of the important needs of the School.

In the year 1937-38, the available financial assistance was as follows:

15 University Tuition Scholarships (10 First Year, 5 unrestricted)	\$ 6,000
Endowed Scholarships	1,560
Annual alumni contributions	1,200
Loans	3,030
	<hr/>
Total	\$11,790

This total sum was spread so as to assist 26% of the student body, or 47 students, with an average of \$250 a student.

Our competitive position may be illustrated by giving the comparable figures at the Yale and Columbia Law Schools for 1936-37, as stated in the Reports of the Deans of those institutions for that year.

At Yale, a total of \$36,327.83 was awarded to 101 students. 27% of the student body was assisted, with an average of \$360 per student.

At Columbia, a total of \$40,483 was awarded to 124 students. 23% of the student body was assisted with an average of \$326 a student.

From the standpoint of the University, the importance of establishing a more adequate fund for law students may be emphasized by pointing to two facts: first, that of the cash scholarships aggregating \$2,760, \$1,200 is derived from annual contributions which can not be expected to continue indefinitely; and secondly, that of the total of \$11,790 available in the form of both scholarships and loans, more than one-half, or \$6,000, is supplied by the University in the form of free tuition. To the extent that the endowed scholarship fund can be increased, the financial position of the University would be improved.

THE STUDENT BODY

The Law School registration throughout the past four years has been as follows:

	1934-35	1935-36	1936-37	1937-38
Third Year	35	55	47	54
Second Year	59	53	60	53
First Year	85	92	83	71
	<hr/>	<hr/>	<hr/>	<hr/>
Graduate Students	179	200	190	178
	<hr/>	<hr/>	<hr/>	<hr/>
Total	3	3	2	1
	<hr/>	<hr/>	<hr/>	<hr/>
Total	182	203	192	179

During the year, 48 students were awarded the LL.B. degree. The LL.M. degree was conferred upon one candidate.

Various causes may be assigned for the decrease in the entering classes since 1935-36. Among these causes is the more stringent enforcement of our policy of excluding those applicants whose prior records justify the prediction that they would not, if admitted, meet the standards required for continuance in the School. Another cause is the financial depression, which began to have effect upon the undergraduate enrollment in American colleges in 1933, and which had a delayed effect upon the registration in law schools admitting only those students who have a pre-legal college training of from two to four years. The American Bar Association's Annual Review of Legal Education for 1937 indicates that in all schools approved by the Association, "the first-year class, which declined from 16,107 in 1935 to 15,102 in 1936, suffered a further decline in the current year (fall of 1937) to 14,312." Financial considerations naturally induce some students to give preference to a school whose tuition and fees are less than they are at Cornell, or to a school which is situated near their homes and which can be attended with

a reduction in living expenses. The effect of the inadequacy of our scholarship fund has been referred to earlier in this report.

On the brighter side, are two facts. First, though in 1926 the entering class was composed almost entirely of seniors in the College of Arts and Sciences who elected to take the combined course, sixty-two per cent of the first year class this year entered with degrees from Cornell or some other institution. Second, the Law School has been steadily making a wider appeal to students from other universities, so that the total enrollment for the current year includes graduates from forty-five institutions.

Every applicant for admission is required to supply letters of recommendation from three members of the Faculty of his college. Believing that such persons would be interested in information regarding the law school to which they had written in support of their students, a copy of the Deans' Report to the Alumni describing our present educational policy and methods was sent to each person submitting a recommendation this spring.

The Law School's strongest appeal will be a reputation based upon high standards and upon excellence in the character and quality of its instruction. Since this School is committed to the policy of adapting its methods so as to secure in full the potential advantages of small group instruction, we should not be anxious to have a first year class substantially larger than that of 1935-36. If we were to permit a first year class to exceed 100, the increase should be matched by an enlargement of the Faculty so as to make it practicable to section all first year classes, and so as to insure the effectiveness of third year problem work.

PLACEMENT OF GRADUATES

One of the practical advantages of a limited student body is the increased probability of the placement of a small, well trained graduating class. Each year, our success in assisting graduates has been notable. Until this year, efforts to place students were divided between Professor Farnham, as Secretary of the Law School, and Professor MacDonald, as Secretary of the Cornell Law Association. They had the effective cooperation of regional alumni placement committees and of Mr. Paul Reyneau, who has received \$25 a month paid from the funds of the Law Association and from contributions of New York City alumni. With the addition of Assistant Professor Keeffe to the Faculty, Law School responsibility for placement was centered in him. He had had experience and unusual success as secretary of the alumni placement committee for the area including and surrounding New York City. Due to the personal attention given by him to the problems of each student and due to his stimulation of the perfection of alumni organization, less than seven per cent of this year's graduating class remain unplaced at the date of this report. There are present prospects of securing employment for this small group within the next few weeks. During the year, assistance in obtaining positions has also been given to twenty men graduating in former years. In view of the prolonged depression, we can be both gratified and proud over the successful results of the placement work.

ALUMNI

The University and the Law Faculty are particularly indebted to those alumni whose gifts made possible an addition to the Faculty and thus gave support to the educational policy of the School. The generosity of those individuals and groups of individuals who have contributed scholarship funds, and of those who have made gifts to the law library, varying from one to three thousand volumes, is also greatly appreciated.

In accordance with the purposes for which the Cuthbert W. Pound Fund was raised in 1936, a scholarship, payable from the income of the fund, became available this year, and a portrait of the late Chief Judge Pound was completed by Mr. Charles Hopkinson and has been hung in the reading room.

An effort has been made to keep the alumni informed as to developments in the School. The Cornell Law Quarterly, which is subscribed for by a large pro-

portion of the graduates, continues to carry items of Law School news. Following the precedent set by Dean Burdick, a communication in the form of A Report by the Dean to the Alumni was sent in April to over 3,000 graduates. This report was confined to a consideration of a single feature of Law School policy—the materials and methods of instruction.

The largest gathering of alumni during the year was at the annual meeting of the Cornell Law Association held in Myron Taylor Hall in November. It was followed by a dinner that evening. Alumni luncheons were held in August at Kansas City, in connection with the annual meeting of the American Bar Association, and in October at Buffalo.

The Law School participated in the departmental exhibitions in the Drill Hall on Alumni Day, and on that day and Commencement Day over four hundred persons were conducted through Myron Taylor Hall.

THE LAW LIBRARY

The inadequacy of the annual appropriation of \$9,000 for new purchases, continuations, and binding was stressed in last year's report, and comparative figures showing the number of volumes and the annual appropriations at eight other law schools were there set forth. Your approval of the request for an increase of \$1,000 for the year 1938-39, and the Board's authorization of this increase are appreciated. The situation is improved to that extent, but the appropriation is still insufficient for proper maintenance and needed development, in spite of the fact that the Law Librarian, Assistant Professor Morse, exercises the greatest care and ingenuity to effect economies in acquiring new volumes. This appropriation should receive a further increase in the budget for 1939-40.

Accessions during the year totalled 3,525. This figure includes 375 gifts of which the following should receive special mention:

Records of New Amsterdam, 1653-1674—the gift of Simon Rosenzweig, '29.
44 articles on International Copyright Law—the gift of Benjamin Pepper, '20.

The number of books accessioned does not include the largest gift of 2300 volumes of United States, Federal, and New York reports. These volumes will be accessioned and will contain a book-plate indicating that they are "From the Library of the Late Roberts Walker, Friend and Partner of J. DuPratt White, Cornell '90. Given in Memory of that Relationship by Mr. Walker's Family."

The number of books accessioned does not include many useful gifts of miscellaneous volumes which will be retained for replacement and trading purposes. These gifts include:

899 volumes from Hon. Frank H. Hiscock, '75.

34 volumes from the widow of Clarence C. Parker, '91.

53 volumes from Fitch H. Stephens, '05.

375 volumes which have been in the Tompkins County Bar Association Library and come to Cornell under the will of Mynderse VanCleaf, '74.

A letter from F. D. Carman, '81, of Herrington, Kansas, called the Librarian's attention to a rare item in our collection. Mr. Carman remembered using "Atherley's Marriage Settlement" while studying law in the office of Merritt King of Ithaca, N. Y. He recalled that the fly-leaf bore the signature of Chancellor Kent and that on the blank pages in the front and back of this volume, in the handwriting of Chancellor Kent, were paragraphs relating to the property rights of married women. These paragraphs were subsequently included by Kent verbatim in his "Commentaries." Many years ago the Law School acquired the library of Merritt King, and so owns a volume which was in Chancellor Kent's private library and was used by him in the preparation of "Kent's Commentaries."

FACULTY ACTIVITIES

The work in which Professor Thompson has been engaged for several years in collaboration with Professor Williston in preparing an eight-volume revised edition of Williston on Contracts, will be completed within the next few weeks.

During the year, Professor Robinson has progressed with his text book on Admiralty and will send it to the publishers this summer. Professor Laube is preparing a case book on Wills, and Professor Wilson is revising his casebook on Torts.

The following is a list of articles published by members of the Faculty during the year:

Robinson: "The Admiralty Law of Salvage," 23 Cornell Law Quarterly 229.

Whiteside: "The Revised Edition of Williston on Contracts: A Review," 23 Cornell Law Quarterly 269.

MacDonald: "The Law Revision Commission of the State of New York," 11 Ohio State Bar Association Report 29; "Law Revision Recommendations (1938)," 10 N. Y. St. Bar Assn. Bull. 114; "The New York Law Revision Commission," 42 Law Notes 5; "The Law Revision Commission of the State of New York," 26 Georgetown L. J. 60; "The Bar and the Law Revision Commission," 9 N. Y. St. Bar Assn. Bull. 56; "Law Revision Recommendations (1937)," 9 N. Y. St. Bar Assn. Bull. 234; "Reports of the New York State Constitutional Convention Committee," vol. 1 New York State Constitution Annotated (editor and director) 1938: New York City, pp. xxxvii, 467; vol. 2 Amendments Proposed to New York Constitution (1895-1937) (editor and director) 1938 New York City, pp. lxiii, 1256; Report, Recommendations and Studies of the Law Revision Commission (1937) (editor and director), Albany, J. B. Lyon Co., pp. 1070.

Morse: Various articles in vols. 30 and 31 of Law Library Journal.

Professor Wilson was a member-at-large on the Advisory Committee on Evidence of the American Bar Association's Section on Judicial Administration. Professor Morse was a member of the executive committee of the American Association of Law Librarians, and a member of the library roundtable committee of the Association of American Law Schools. Professors Burdick and MacDonald continued their activities as Chairman and Executive Secretary, respectively, of the New York State Law Revision Commission, and I continued as Chairman of the New York Commission on Uniform State Laws. The following members of the Faculty acted as research consultants for the Law Revision Commission: Professor Farnham with relation to the law of fixtures, and to charging legacies and debts on the real property of decedents; Professor Keeffe with regard to proposed amendments to the partnership law, and Professor Whiteside with regard to the law of perpetuities and spendthrift trusts.

ROBERT S. STEVENS,
Dean of the Law School.

APPENDIX V

REPORT OF THE DEAN OF THE MEDICAL COLLEGE

To the President of the University:

SIR: I have the honor of presenting the following report for the Medical College in New York for the academic year ended June 30, 1938.

THE FACULTY

After many years of devoted service to both the Medical College and the New York Hospital, Doctor William James Elser has arrived at the age where he is automatically retired under the Statutes of the University. We are pleased that the Trustees have seen fit to appoint him Professor of Applied Pathology and Bacteriology, Emeritus. The New York Hospital has put at Dr. Elser's disposal laboratory space so that he may continue his special studies.

The Professorship of Biochemistry has been accepted by Doctor Vincent du Vigneaud who comes to us from the professorship of that department of the George Washington University, Washington, D. C. Doctor du Vigneaud holds the admiration, esteem, and affection of his students and fellow-workers. He has proved himself a leader both in investigation and teaching in this field. He brings with him a number of associates and graduate students so that we have in prospect for the first time in many years a full department.

STUDENT BODY

During the year there have been enrolled at the Medical College in New York fifty-seven students in the first year, and twenty in the Ithaca Division; seventy-six students in the second year; sixty-two students in the third year; and sixty-six in the fourth year. Eight students were enrolled in the Graduate School. During the year two students withdrew, six were dropped, and one died.

Eighty-two students have been admitted to the first-year class entering in the fall of 1938. They were chosen from a total of 1090 applicants. Three students have been admitted to advanced standing.

STUDENT HEALTH SERVICE

The Student Health Service has continued to render efficient service under the direction of Doctor Dorothea Lemcke and her associates Doctors Norman Papae and Byard Williams. This staff has extended to the students throughout the year the best sort of medical advice and I wish to take this opportunity to acknowledge the debt of gratitude which the administration of the Medical College and the University owes to them. These physicians have taken a personal interest and have rendered the service without pecuniary remuneration except for a small honorarium. An office hour is held once a day, emergency cases are cared for, periodic examinations are given, and an attempt is made to look after all needs for the maintenance of health and the cure of the sick. They have received the hearty cooperation of many departments and the professional staff of the College and Hospital.

I am taking the liberty of quoting briefly from Dr. Lemcke's report:

<i>“Periodic examinations:</i>	<i>1937-38</i>	<i>1936-37</i>
Class of 1938	68	
Class of 1939	2	
Class of 1940	25	
Class of 1941	55	
	<hr/>	
Total	150	162
Number of health calls and follow-up visits	602	633
Total number of student health office calls	752	795
Number of students seen for health calls	169	192
Students hospitalized	16	19
Number of days' hospitalization	141	237
Home calls	10	10
Number referred to New York Hospital O. P. D. (Excluding physiotherapy, central laboratory, and for routine x-rays)	109	
Number referred to Dr. Samuels for eye examinations	57	
Number referred to other specialties	3	

“The general health of the student body seemed better this past year. The number of upper respiratory infections were fewer, 91 as against 162 last year. Sixty-seven per cent of these infections occurred in the first and second year classes; thirty-three per cent in the third and fourth years.

“Thirty-eight of the forty-four fourth year students who were examined here in their first year showed an average gain of 4.7 kilos. Six lost an average of 1.9 kilos.

"Tuberculosis Incidence. There has been no definite clinical tuberculosis in the student body this year. One student, upon x-ray examination has repeatedly shown 'apical salients', both here and at Ithaca. There has been some question whether he may not have a minimal tuberculosis lesion. Following an appendectomy in August 1937, he has gradually gained fifteen pounds. He now looks and feels very well. The x-ray examination will be repeated in the fall."

In comment on the report just quoted, I should like to remark that it reflects the recognized nation-wide improvement of health during the last twelve months, but that beyond this it is our impression that the health of Cornell students in general and in particular as regards the incidence of tuberculosis is better than that of many other schools.

THE CURRICULUM

There have been no major changes in the curriculum and none are contemplated. There has, however, been some rearrangement in the sequence, substance, and method of presentation in Anatomy, Bacteriology, Physiology, Biochemistry, and Public Health.

CHANGES IN PHYSICAL PLANT AND MAINTENANCE

There have been no major changes in the physical plant. However, since the student body of the pre-clinical departments will be increased next year by about twenty per cent, it has been necessary to make changes in laboratory equipment such as desks and apparatus, lockers, additional seats in lecture rooms, etc.

The annual appropriation for maintenance included in the budget has been completely exhausted and it should be increased when the income of the Medical School permits it. In the near future we must repaint the entire interior of the college buildings. A rough estimate of the cost of this is \$12,000.

I wish to call your attention to Mr. Taylor's report on maintenance among the supplemental reports and to express here my appreciation of his loyal and wise service in meeting our operating problems.

DEPARTMENTS

Supplemental to this report, I am handing to you the individual reports of the Heads of Departments which contain much of interest which can not be included in this report, particularly in the detailed discussion of teaching and research being conducted by them. These reports also set forth facts of interest in relation to the activities of personnel which space does not permit me to discuss here.

I wish to point out again that the finances of the Medical College permits, in most instances, only skeleton departments. We believe that each department should be headed by a man of professorial rank and have as second in command a staff member of professorial qualifications. Funds at the present time do not permit this.

Dr. Stockard points out that the scientific work of his department could be greatly facilitated if more adequate technical assistance were available. This is true of a number of departments of the College. Although the departments have been materially aided by grants from foundations and from others, it is important in looking to the future to realize that they should receive more support from the University itself, for if the funds now available from outside sources were withdrawn the departments would seriously suffer in addition to the enforced cessation of much of the investigation now being pursued.

FUNDS FOR RESEARCH

During the past academic year, the following amounts of money have been available for use in research by the departments as listed. The funds are special funds not included in the budget and they have been received from private individuals interested in research and from foundations:

Anatomy	\$ 33,761.23
Library	117.22
Pathology	46,966.96
Pediatrics	1,000.00
Public Health	27,523.33
Medicine	18,609.19
Physiology	2,203.13
Surgery	11,254.35
	\$141,436.41

There are in addition other funds available to some of these departments which clear to them through offices other than the Business Office of the Medical College. Of such funds the administration has no record.

LIBRARY

I wish at this time to call your attention to the problem of adequate support of the Medical College Library. Due to what were deemed more urgent needs, the Library budget has been reduced since the college moved to its present quarters. The use of the library has increased. Due to various circumstances, we have lost the acquisition of many exchange journals which we have enjoyed for years. This has necessitated subscriptions to some of these journals, but we have not had the money entirely to replace this loss.

We recognize that on account of the admirable library facilities in New York City, we need not attempt to acquire and maintain as complete and extensive a medical library as we might under other circumstances. But we do believe that it is necessary to maintain an efficient working library. This is impossible on the money now available.

ADMINISTRATION

The following constructive actions have taken effect during the past academic year.

(1) There has been a gradual assumption by the Joint Administrative Board of the New York Hospital and the Cornell University of the responsibilities placed upon it by the agreement between the two institutions. It should be pointed out in connection with this, however, that the Agreement by which the Joint Administrative Board is created does not recognize the position of Dean of the Medical College nor provide any place for the Dean in the joint administration of the two institutions or in the Medical College. Looking forward to the future and possible changes in the administration of the Medical School it would seem important to clarify this matter at an early date.

(2) A joint account for the support of the clinical departments has been set up by the College and the Hospital. In doing this the Medical School has acquired the responsibility of one-half of the budget of the Department of Obstetrics and Gynecology, thus for the first time since the occupation of the new site in 1932, this department is brought nearer administrative surveillance of the Medical College. In this respect the Department of Psychiatry is still very much "out from under" the administration of the Medical College.

(3) Beginning in the Fall of 1938, all first year medical students of the Medical College of the University will be given their year of training in New York City. Thus all training of medical students will be carried out in the Medical College in New York City. This most constructive step allows much better coordination and systematization of the teaching of the first two years. It permits the complete medical course to be given in one place.

(4) The Department of Applied Pathology and Bacteriology has been abolished by action of the Trustees.

(5) The responsibility for the teaching of Clinical Microscopy and the laboratory training of clinical clerks has been placed under the supervision of the clinical

departments. The Department of Medicine in particular is charged with this responsibility.

(6) The Central Laboratories of the New York Hospital have been reorganized.

(7) The vacancy in the Professorship of Biochemistry has been filled.

(8) The Committee on Admissions has been reorganized upon the recommendation of the Executive Committee of the Faculty.

(9) During the year the Health Center on 69th Street was completed and opened. The University is given almost the entire two top floors of a four-story building and in addition facilities for teaching in the clinics and in the field of the district. The Professor of the Department of Public Health and Preventive Medicine has his headquarters in the Health Center Building. The cooperative arrangement between the Department of Health of the City and our Department of Public Health should greatly aid in a more advantageous course in Public Health and Preventive Medicine than we have heretofore been able to present. Dr. Smillie has most ably assumed his duties in this department and with the loyal support of our former staff there has been further definite progress in the department both in research and teaching.

(10) During the year there has come to a satisfactory conclusion negotiations with the Faculty of the University of Havana which have resulted in arrangements for an informal exchange of personnel between the Medical School of that University and Cornell Medical College, in which the New York Hospital plays a most active and cordial part. A limited number of Cornell students will visit Havana for the study of Tropical Medicine at the University there. Members of the Faculty of the Medical College there will be guests of the New York Hospital and the Cornell Medical College in New York for a number of weeks for special study. We hope that in addition there will be exchange visits for the purpose of lectures between the faculties of the two medical schools.

(11) There has been a public expression of the desire on the part of the University and the New York Hospital to obtain funds so that the annually recurring deficit of the Hospital can be prevented and the Medical College maintained as a first-class teaching institution.

I want to take this occasion to express to you my great appreciation of your interest in the Medical College and its problems.

WILLIAM S. LADD, M.D.,
Dean of the Medical College.

APPENDIX VI

REPORT OF THE ACTING SECRETARY OF THE ITHACA DIVISION OF THE MEDICAL COLLEGE

To the President of the University:

SIR: In accordance with your request I beg to submit the following Report of the Ithaca Division of the Medical College for the academic year 1937-38. The privilege of making this communication comes to me because of the illness of the Secretary, Dr. Abram T. Kerr. I keenly regret that he cannot himself perform this service. This report is furthermore unique in that it is the last covering the activities of the Ithaca Division which was suspended through action of the Board of Trustees, June 21, 1937.

During 40 years the Ithaca Division has carried out with distinction the four-fold obligation which any University School of Medicine should meet. Effective instruction has been given to 1515 students of medicine, and several thousand students from other colleges of the University have received instruction from its Faculty. About 70 have gone forth to teaching and research positions,—Deans,

Professors, and Instructors. The amount of research within its walls is attested by 10 large volumes, the collected reprints of scientific papers.

The year 1937-38 has been no exception to the years past. The number of medical students was by Faculty action limited to 20, and of these one withdrew during the year. Exclusive of medical students, there were 810 course registrations by students of other colleges. In addition, 92 graduate students, candidates for advanced degrees, had majors or minors in Stimson Hall. As indicated by the list appended hereto, 36 scientific articles from Stimson Hall laboratories were published during the academic year, are in press, or ready for publication—exclusive of reports of progress at Scientific Meetings or to Foundations. Differentiation between the different laboratories seems unnecessary since the individual activities and accomplishments may be inferred from the following paragraphs summarizing the work of the Departments.

I. *Anatomy*. It hardly requires stating that the illness of Dr. Kerr placed an increased burden on the staff. Dr. Papez says: "The absence of his counsel and of his able teaching has been deeply felt by the staff and the students". Nevertheless, "the cooperation of the staff and the splendid spirit of the students have made possible a satisfactory completion of the year's work". Despite the obvious handicap imposed, Dr. Papez found time to bring out 10 papers and abstracts, and has seven additional articles in press. Other work is in progress. Most of the papers are neurological. Dr. Papez has gained an enviable reputation in this field. Hence it is that two professors of neurology from away desire to be "Research Guests" during the summer.

II. *Biochemistry*. Professor Sumner, head of the laboratory, was on leave during the first term, with Instructor Howell in charge during his absence. Dr. Sumner, as a "Guggenheim Fellow" spent five months at the University of Upsala, Sweden, continuing his important work on the protein nature of enzymes. The Scheele Medal for "outstanding achievement in research" was awarded him, he being the seventh to receive this distinctive honor. Five papers have been published during the year by Professor Sumner and Instructor Dounce, and three others are completed.

Instructor Howell, despite the claims of a heavy teaching schedule, has nevertheless continued work on five important biochemical problems. So many students from outside, largely graduate students elect work in biochemistry that the absence of medical students will be felt mainly as affording more space in a crowded laboratory. Dr. Sumner accordingly contemplates altering the course to give a somewhat different emphasis.

III. *Histology and Embryology*. The work of the Department has proceeded normally, with 357 registrants (including 20 medical and 21 graduate students with majors or minors in the department). Instruction was given in five courses the first term, four the second. As the medical students had their own special course, in the first term, no course readjustments will be occasioned by their absence.

Dr. Adelman continues to enhance his reputation both as an experimental embryologist and as a erudite scholar in the field of the history of embryology, and indeed, of biology as a whole. In connection with the latter, it may be noted that he has been asked to give a lecture the coming year at the Johns Hopkins University. His work in the first mentioned subject, experimental embryology, is somewhat handicapped by inadequate facilities and the lack of technical assistance.

IV. *Physiology*. Two special fields of investigation have characterized the Departmental activity and each has been vigorously cultivated during the past year. Under generous grants of the Rockefeller Foundation and the Josiah Macy, Jr., Foundation, Professor Liddell has concentrated in the field of Neurobiology. Reports to the two supporting Foundations covering the work of the year have been submitted, copies of which are on file.

In conjunction with these researches, Dr. Liddell reports that he has addressed seminars at Brown and Yale Universities, and reported at meetings of scientific societies. He has been appointed a member of the National Research Council

"Committee on Problems of Neurotic Behavior", and is an Associate Editor of a newly established journal,—*"Psychosomatic Medicine"*. Three publications have appeared, and other work is in progress.

Professor Dye has attacked the intricate problem of Carbohydrate Metabolism in relation to the Pituitary gland and Pancreas and the cause of Diabetes. In this work he has had support from the Harry Snyder Research Fund. Two statements of results are in press and a more comprehensive publication is pending. During the past two years Dr. Dye served on the membership committee of the National Society for Experimental Biology and Medicine and was Chairman of the Western New York Division of that society.

Including 17 medical and 18 graduate students there were 297 course registrants in this department. Of these 216 took course 303, an introductory course given by Professor Dye.

V. *Embryology Research.* Professor Emeritus S. H. Gage has actively continued his research work, and in every way his hearty cooperation with his colleagues. Two significant publications have claimed much of his time this year. Nevertheless he has continued work on a Monograph on the Development and Distribution of Elastic Tissue in Vertebrates, while in a marked degree the Library has received his devoted attention.

VI. *The Van Cleef Memorial Library.* As Librarian, Professor Gage reports that there are now 5,422 volumes with 805 withdrawals during the year for home use. It is pointed out that the library is extensively used not only by students and faculty in Stimson Hall, but by the other colleges of the University. Quoting the Librarian's own words: "Indeed this and the Flower [Veterinary] Library are invaluable supplements to the Main Library for the current medical and biological publications which make researches in scientific biology and medicine possible. It thus helps fundamentally to make the University a center of good teaching and research, and is realizing the hope of its generous founder, Mynderse Van Cleef, in that it is helping to make Cornell a real University."

A survey of the foregoing reveals, that Stimson Hall, during the past year, as in preceding years has been a center both of extensive research and of instruction to a varied group of students. What is, possibly, not so apparent is that the work is all biological, or of distinct biological significance. On its scientific side, Medicine, in so far as it is not applied chemistry and physics, is biology. It has become progressively recognized that the fundamental scientific problems of medicine are biological problems. While the basic problems are broad, emphasis in a medical school is or should be in last analysis, upon the human organism. This has ever given a peculiar effectiveness in the pursuit of the solution the problem demands. It should always be appreciated that, since the time of Aristotle onwards, interest in man as a living being has been paramount. The structure of his body, alone among animals has been thoroughly worked out. The terminology established for man has colored or determined that for other animals. In this University from the beginning the human aspects of biology have been emphasized. It is to be expected that Stimson Hall may continue to be a center of effective teaching and research. It is also to be hoped, however, that some form of coordination and correlation with other fields of biological interest within the University may be worked out whereby the equipment and facilities of Stimson Hall may continue to be available but with a closer integration of all the biological work of the University. The members of the Faculty have always been glad to cooperate and, I am sure will welcome further coordination of effort. The problem presents, I realize, a dilemma:—The unity of biology calls for integration; the effective solution of biological problems calls for intensive concentration within limited fields. A grouping and coordination of a number of Institutes would seem to be a solution.

B. F. KINGSBURY,
Acting Secretary, Ithaca
Division, Cornell University Medical College.

APPENDIX VII

REPORT OF THE DEAN OF THE NEW YORK STATE VETERINARY COLLEGE

To the President of the University:

SIR: I have the honor to submit the following report of the work of the New York State Veterinary College for the academic year 1937-38.

THE STAFF

It is gratifying to report that there have been no changes in the professorial ranks of the staff during the past year. There were only a few changes, indeed, in the ranks of instructors and assistants.

Many of our faculty members continue to carry exceedingly heavy teaching loads. Although it is done without complaint, it does not make for highest efficiency. For the best type of work one needs a certain amount of free time for reflection and he must have time for reading. Some of our men find time for these pursuits only at night.

One of our staff, Dr. D. H. Udall, was honored last year by being selected as the first recipient of the International Veterinary Congress Prize, awarded by the American Veterinary Medical Association, for outstanding accomplishment in animal disease research. The award was made for his work on bovine mastitis. He was honored a second time when his portrait was presented to the University by the veterinary alumni, and a third time when he was awarded the honorary degree, Doctor of Science, by the University of Vermont. Three such distinctions within a single year truly indicate the esteem in which our Senior staff member is held by his colleagues, students, and friends.

Members of the faculty continue to be in demand as lecturers before professional and lay groups of all kinds. They are active in national professional organizations and are frequent contributors to scientific programs. To a greater extent than those of any other veterinary colleges, our faculty members are affiliated with, and participate in, societies in such fields as physiology, bacteriology, pathology, parasitology, and medical research.

THE STUDENTS

At the beginning of the academic year there were 154 students in the veterinary curriculum. Of these only three were dropped because of unsatisfactory scholarship. Thirty-one were graduated this spring. It is proposed to admit 40 to the entering class in the fall. Next year's enrollment should, therefore, be about 160, and the enrollment will remain at this level so long as the present policy of admitting 40 new students each year is followed. The freshman class of last fall was admitted on a selective basis from a group of 276 applicants, and the 1938 class will be picked from about the same number. A great deal of time is spent by the Committee on Admissions in personally interviewing the applicants and in reviewing their records, but the time is well spent. The quality of student performance is much better than it used to be, as is indicated by the very few that are dropped for unsatisfactory work.

Graduate teaching in the college has gradually been increasing, particularly in the Department of Physiology. Whereas until five years ago there rarely were more than one or two graduate students in this department, during the past year there were twenty-four.

Because of a tradition in the college that good teaching demands experienced men, the greater part of our teaching always has been done by men of professorial rank, and we have few assistants. This situation reflects on our graduate teaching in that there is little opportunity to subsidize graduate students, and thus we have comparatively few who pursue their major subject in this field. This is unfortunate since there is a strong demand for teachers and research workers who

have had advanced training in veterinary medicine. The picture of graduate work in the college is indicated by the following facts:

Number of Ph.D. majors.....	5
Number of Ph.D. minors.....	29
Number of M.S. majors.....	8
Number of M.S. minors.....	10
Ph.D. degrees granted during the year...	1
M.S. degrees granted during the year.....	6

THE PHYSICAL PLANT

During the past year the new Veranus A. Moore Laboratory of Pathology has moved steadily toward completion. At the end of the year the building is receiving its final inspections and will very soon be turned over to the University. An appropriation from the State of \$60,000 for equipment is now available. About \$20,000 of this will be required for the refrigeration system, the elevators, the laboratory sinks, and certain special lighting fixtures, leaving about \$40,000 for furniture and other equipment. This is only about one-half of the amount that will be needed to complete the job. Essential equipment will be procured this summer and installed in time, we hope, so that the building may be put into service this fall. We shall ask the State for an additional appropriation next year to complete the work.

This building is a beautiful structure of native seamface stone. Its furnishings will be largely of steel. The modern laboratory facilities which it will furnish will be much appreciated by the staff who have long worked in crowded, out-of-date quarters.

Major repairs and alterations have been made in James Law Hall and funds are available for further work during next year. The old porte-cochère has been removed; the old parapet which had become dangerous and was no longer water tight has been replaced by a simple wall; and some of the antiquated electric wiring in the building has been modernized. During the coming summer the third floor of the building will be remodelled to suit it better to the needs of the Department of Physiology which will take it over in the fall.

During the year new dog runs were constructed for the Small Animal Clinic; new offices fitted out for the Department of Medicine; a new manure shed constructed for the clinics; and additional stacks provided for the Flower Library. A new motor ambulance soon will be ready for the use of the large animal clinics.

The construction of the laboratory building marks the completion of the original building plan of the college. In all probability it will be many years before any other major buildings will be required. All of the older buildings need repairs, however, and it is hoped that before many years the old portions of James Law Hall can be essentially rebuilt in order to modernize its interior and to bring its exterior into harmony with that of the new laboratory. The roads and sidewalks around the college are in very bad condition. During the next year or two these will have to be improved.

THE CURRICULUM

For some years the faculty has been experimenting with the curriculum. There is a standing committee on the subject. Great and increasing difficulty is experienced in crowding into four years all of the material that it is believed veterinary students should have. Organic chemistry and several courses in animal husbandry now make up the equivalent of one-half year's work—one-eighth of the time of our present curriculum. Our students now receive no training in physics, botany, and genetics. They do not receive sufficient training in actual clinical work such as the medical student gets in his year of internship. There are several solutions to these problems: increasing the admission requirements to two years of college work; leaving the admission requirements as they are but lengthening the course to five years; making no drastic changes in the present admission requirements and in the present curriculum but working out a plan of hospital

internship somewhat similar to that of medical schools. The best answer has not yet been determined. One of the better veterinary schools—that of the University of Pennsylvania—already has committed itself to a two-year college entrance requirement beginning in 1940. It is probable that our faculty will make some kind of recommendation in this matter during the next year.

SHORT COURSES

The Thirtieth Annual Conference for Veterinarians was held in January. Two crowded days of lectures and demonstrations were offered by our faculty assisted by several non-resident lecturers of national prominence. About one-half of the veterinary practitioners of New York, most of them alumni of the College, were in attendance. Every class that has graduated during the last 40 years was represented. About 300 registered. This is about the number that we have had at the last several Conferences. Until ten years ago we never had more than one-half of this number.

Two short-courses, each of two weeks' duration, were held during the year for groups of practicing veterinarians from the State of Michigan. These were financed by the Kellogg Foundation as a part of its experimental project which aims to improve the public health in seven counties in southern Michigan. A total of 36 very appreciative and eager men attended these courses.

LABORATORY AND CLINICAL SERVICES

Although the final figures are not yet available, it appears that the volume of work done by our several diagnostic laboratories and by the clinics will again show a small increase. During the last twenty years these services have shown a steady growth which amounts to a more than ten-fold increase over the period for the combined services and more than twice that amount for some of them. The diagnostic services strengthen the efficiency of veterinary practice in the state, and the clinic services furnish abundant teaching material.

In the annual report to the legislature, which will be published later, statistical matter on these services will be given. Copies will be available to those who request them.

EXTENSION WORK

The faculty appreciates the fact that wider dissemination of disease prevention information among animal owners is desirable. Through addresses before lay groups, articles in farm journals, radio talks, farm demonstrations, and occasional bulletins for lay readers, they do what they can in this direction. The veterinary college has no special funds or special staff for these purposes, and therefore it cannot meet the demands upon it as fully as it would like to do. For some years we have sought to secure an extension veterinarian as an addition to our staff, but unsuccessfully. These efforts will be continued.

RESEARCH

A recent questionnaire brought out the fact that about 60 research projects were active in the college. These deal with all fields of veterinary medicine. About 15 papers were published during the year. These will be reprinted in the report to the legislature and will be available to all who are interested. Short descriptions of the active projects will also be included. The subject will not be discussed further here, other than to say that the research spirit is active in the institution and has a profound effect upon the freshness and accuracy of our teaching.

FINANCES

In general the pressing needs of the College are the same as reported a year ago. The Department of Physiology needs much new equipment. The operating funds of all departments are too small. Additional personnel is needed in physiology, pathology, and in the clinical departments. Too much routine work is being done by comparatively high salaried men. A few assistants will do much toward releas-

ing them for more productive work. An extension veterinarian and funds to support his work are needed. Additional funds are needed to repair the older buildings, to build roads and walks, and for completing the equipment of the newly erected building. All of these things will come in time. The State has been reasonably liberal with its colleges at Cornell in the past and will, I am sure, continue in its desire to keep them among the best of their kind. The administration and staff will continue to do their best to see that the funds invested here are wisely used.

W. A. HAGAN,
Dean of the Veterinary College.

APPENDIX VIII

REPORT OF THE NEW YORK STATE COLLEGE OF AGRICULTURE AND OF THE CORNELL UNIVERSITY AGRICULTURAL EXPERIMENT STATION

To the President of the University:

SIR: I have the honor to submit the report of the New York State College of Agriculture and of the Cornell University Agricultural Experiment Station for the fiscal year 1937-38.

RESEARCH

The scope and emphasis of the research program of the Agricultural Experiment Station changes from year to year in order to meet those problems which are most pressing. During the past year, emphasis has been placed upon more economic use of the land, lowering the costs of production, marketing, and distribution, and improving the quality of New York State farm produce. The answers to the many problems arising from constantly changing agricultural practices and procedures demand research of both the fundamental and applied type and involve considerable adjustment both within the Station and among the research staff.

Some of the newer research projects which promise to be of great importance to agriculture are the following:

Three comprehensive potato rotation experiments have been started in areas typical of the important potato-producing sections of the State. The experiments have been carefully planned to provide information on the best crop rotations from the standpoints of yield and quality of potatoes obtained, yields of other crops in the rotations, effects on the prevalence and population of insect pests and plant diseases, and changes occurring in the soil from year to year under the different crop rotations. The results of these experiments may radically change some of the methods of potato culture now in common use.

Excellent progress has been made in the land utilization and land classification studies. The work includes a classification of the land according to the intensity of present and probable future uses, information on the economic value of different land classes and soil types, and programs relating to intensive development of the land that is likely to remain permanently in agriculture. At the present time, the land has been classified and suggested road and electrification programs prepared in 15 counties covering 6,385,000 acres. This constitutes nearly one-fourth of the State, excluding the Adirondack and Catskill Parks.

A problem of great importance to the apple industry is that of proper storage conditions for the fruit. Recent investigations have shown that the utilization of modified atmospheres involving known ratios of carbon dioxide and oxygen at constant specified temperatures will improve the storage of fruits. There are defi-

nite indications that the use of modified storage atmospheres may solve many of the storage troubles and improve keeping quality. Progress in this direction will be of considerable value with varieties such as the McIntosh.

In connection with the manufacture of dairy products from milk and cream, the industry frequently encounters striking variations in the creaming ability of milk, in the whipping, churning, and viscosity of cream, the foaming of milk, and the action of enzymes, particularly lipase. Recent investigations on the physico-chemical properties of the surface of milkfat globules have shown that many of these differences in the behavior of dairy products are due to alterations in the properties of the surface of the milkfat globules. It is believed that this fundamental study is basic to the solution of many technical problems of great practical value to the dairy industry.

Any breeding program involving plant improvement stresses yield as one of the important qualities. Although the yielding ability of plants is often considered and dealt with as a single factor, it is really a complex of many factors, most of which have been neglected in past years by plant breeders. One of the major factors which determines yield and possibly quality is the character and efficiency of the photosynthetic system. This system is in turn a complex mechanism involving many factors. Recognizing that hybrid vigor in plants is undoubtedly due in part to fortunate combinations of physiological differences, a fundamental investigation is under way which looks toward crop improvement through determinations of variety and strain differences of specific physiological processes. The relative importance of these processes will be evaluated with a view to recombining characters in order to develop improved plants.

The need for spraying fruit trees to control several of the more serious fruit pests has created a spray residue problem, the importance of which has been recognized for some time. The Legislature of 1937 appropriated \$10,000 to be used for developing a non-poisonous spray for fruit-bearing trees. A well-trained insect toxicologist and an organic chemist are working cooperatively on this problem. The project is coordinated with field experiments conducted by the Departments of Entomology and Plant Pathology of the Cornell and Geneva Stations. Major emphasis has been placed upon the nicotine compounds and three promising "fixed" nictines are already under test. The development of an insecticide which is non-poisonous to humans and toxic to insects will be of immeasurable value to the fruit industry of the State.

Mortality from various poultry diseases is the outstanding problem facing poultrymen at the present time. Diagnoses of birds dying in laying tests show that 85 to 95 per cent of the total mortality results from neoplasms, disorders of reproduction, kidney diseases, internal hemorrhage, and impaction of the alimentary tract. With satisfactory control measures unknown, the problem is being attacked from the genetic standpoint. Several lines of birds resistant to disease have already been developed. It would appear that breeding for disease resistance offers promise as the ultimate solution of this problem.

These are but a few of the projects in progress during the year. A more complete and detailed report on the research program of the Experiment Station is contained in the Annual Reports of the State Colleges of Agriculture and Home Economics to the Governor and the Legislature.

EXTENSION TEACHING

The most significant feature of the Extension Service during the year has been a more rapid move toward broadening the base of the extension teaching program and a closer integration of programs both within the service and among the many governmental agencies now operating in rural areas. Many of these agencies have developed so rapidly that rural people are confused. They have not had sufficient opportunity to evaluate them or to make desirable adaptations of the new programs to suit local conditions. The outstanding present need is to develop a much larger measure of local responsibility on the part of rural people in formulating rural policies and agricultural programs.

Certain social and economic shifts during the past few years have hastened and accentuated the effects of technological changes in transportation and communication in bringing urban and rural cultures much closer together. These factors are deeply significant. It is very important that rural policies be developed by rural people themselves, and with as much understanding as possible of the changed relations to urban influences and the effect of these changes on state and national welfare. This is one of the big jobs that faces the extension service.

It should be pointed out that these moves involve no essential change in fundamental objectives. They do mean a further clarification of objectives, a shift in emphasis, acceleration of activity along certain lines, and better use of much additional information supplied by research in land classification, and farm management studies.

Yielding to pressure from rural groups, six new 4-H club agents and one county agricultural agent were added to the county staff during the year. To finance these new appointments the State Legislature made a deficiency appropriation. Efforts to secure passage of a state law to provide needed personnel for further expansion of county work, especially in the home and 4-H departments, were unsuccessful. Certain federal funds were cut during the year, largely offsetting increases in other federal funds. A considerably expanded program in the counties has therefore been carried on practically the same budget as for the preceding year. Considering the county organization alone, the State is not at present contributing its fair share of the costs. The counties are furnishing about 71% of the funds, the federal government about 17%, the remaining 11% or 12% coming from state appropriations.

Current trends and development of new and expanding agencies operating in rural areas affect the work of extension subject matter specialists in various ways. The agricultural conservation program, offering benefit payments for the adoption of certain recommended practices, has caught the interest of some farmers who were not participating in the educational programs. To reach these persons with needed educational aid involves new teaching methods and greater reliance on local leader training. The specialist will probably give progressively smaller proportions of his time to direct teaching contact with farm families and more to the preparation of material and teaching guides for use by county agents and other paid or volunteer local leaders.

APPROPRIATIONS

The State appropriations for last year showed a slight increase over those for 1936-37. Deficiency appropriations were made for accessory instruction, for county-agent work, and for fuel, light, power, and water.

For the first time in several years the State provided a small sum for salary increases in the more urgent cases.

The lack of sufficient funds for maintenance is still a pressing need in the College. Prompt restoration of the cuts made several years ago in the maintenance and operation items is urgently desirable.

The sum of \$40,000 was appropriated for the construction of new insectaries. The greenhouse and laboratory facilities provided by this appropriation will be of great benefit to the teaching and research in the Department of Entomology and Limnology.

In the field of research, the State appropriated funds for the initiation of new projects as follows: \$7500 for studies on white grubs and other forage-crop insects; \$10,000 for the development of a non-poisonous spray for fruit-bearing trees; \$6000 for an investigation of marketing problems in connection with maple sirup and maple products; and \$5000 for studies on diseases and insect pests affecting bulb crops, greenhouse crops, and other ornamentals.

Except for the increments provided by law under the Bankhead-Jones Act, the Federal appropriations were practically unchanged in the fields of research and resident instruction. In extension teaching, the Supplementary Lever and Additional Federal Cooperative Funds were decreased in approximately the same amount as the increase provided by the Bankhead-Jones Act.

BUILDINGS

The need for a new library and classroom building is becoming more urgent each year. The valuable library of the College is now housed in exceedingly cramped quarters which are not conducive to proper care and use of the books and which are subject to a considerable fire hazard. A rather constant increase during the past few years in the size of the student body has created a serious shortage of classrooms. Unless this situation is remedied, the College will be forced to seek some method of limiting registration. A modern fireproof library and classroom building would solve two of the most pressing needs of the College.

The Department of Agricultural Engineering is housed at the present time in very unsatisfactory quarters. The crowded conditions with reference to office, laboratory, and classroom space are seriously interfering with increasing demands for teaching, extension, and research in this field. The State should make an appropriation for the construction and maintenance of a new building to house the Department of Agricultural Engineering as soon as funds are available.

THE COLLEGE STAFF

The year was marked by an unusual number of retirements and deaths among members of the staff. Professors P. W. Claassen, H. A. Hopper, M. W. Harper, G. F. Warren, and Secretary O. W. Smith died during the year. Each of them made notable contributions to the work of the College, and will be sadly missed by his colleagues. Professors W. C. Baker, O. A. Johannsen, and G. W. Cavanaugh retired from active service on June 30, 1938, and Professor Cavanaugh died on the second day thereafter. During the year Assistant Professors P. P. Pirone, T. E. LaMont, and J. N. Spaeth resigned to enter service elsewhere.

There were added to the staff by first appointment or by promotion fourteen professors and seven assistant professors.

THE STUDENT BODY

As is indicated in the table given below, the changes in the enrollment of students that have been apparent in the last few years still continue. The number of four-year students continues to increase in spite of progressively more rigorous selection. The two-year courses show a similar increase and they seem to be meeting the need for which they were established. The winter courses remain considerably below the level of attendance of many years ago, their functions having apparently been to some extent absorbed by other agencies. The reduction in summer-session students is probably due to the increase in tuition charges during the last two years.

The amount of farm experience with which students enter the College shifts somewhat from year to year, but is greater now than in any previous time. During the last four years, 29 per cent of entrants to the four-year and two-year courses combined had no farm experience, nearly 40 per cent were farm reared, and about 31 per cent, while not farm reared, had more or less farm experience. During the preceding four years about 41 per cent had no farm experience, 35 per cent were farm reared, and 24 per cent were intermediate.

The total enrollment for 1936-37 and 1937-38 was as follows:

	1936-37	1937-38
Four-year students:		
Freshmen	369	409
Sophomores	274	300
Juniors	272	259
Seniors	190	268
Total	1105	1236
Special students	47	43

Two-year students:		
General farming	34	
Dairy farming	90	77
Other livestock farming	15	22
Poultry farming	25	21
Fruit-growing	15	17
Vegetable-growing	18	11
Marketing of fruits and vegetables	8	10
Marketing of dairy products	20	23
Commercial floriculture	20	19
Total	211	234
Winter course students:		
Agriculture (general)	43	36
Dairy industry	25	22
Poultry husbandry	21	13
Flower-growing	23	18
Fruit-growing	6	6
Vegetable crops	5	1
Total	123	96
Graduate students	445	468
Summer-session students	920	878
Total	2851	2955
Less number counted twice	85	94
	2766	2861

CARL E. LADD,

Dean of the New York State College of Agriculture
and Director of the Experiment Stations

APPENDIX IX

REPORT OF THE NEW YORK STATE AGRICULTURAL EXPERIMENT STATION AT GENEVA

To the President of the University:

SIR: I have the honor to submit the Annual Report of the New York State Agricultural Experiment Station at Geneva for the year 1937-38.

The activities of the Station have continued with little interruption, and the year has been marked with encouraging and significant advances in a number of important research problems.

A great need exists for sufficient funds for general maintenance, as heat, light and power, labor, and repairs. It should also be pointed out that the electrical installation in the chemical and entomological buildings is antiquated, and is a dangerous fire hazard besides being insufficient in furnishing necessary power. Rewiring of both buildings is an urgent necessity.

STAFF CHANGES

During the past year Director U. P. Hedrick has retired, having reached the age limit. There have been 8 resignations, 16 new appointments, 8 changes in title, and 1 death. The scientific staff now numbers 78. These changes are as follows:

Resignations:

- L. M. Cooley, Associate in Research (Plant Pathology) effective September 15, 1937.
 L. B. Norton, Associate in Research (Chemistry) effective August 1, 1937.
 Marylizabeth Wellington, Assistant in Research (Chemistry) effective October 15, 1937.
 C. D. Kelly, Associate in Research (Bacteriology) effective November 1, 1937.
 W. H. Rankin, Associate in Research (Plant Pathology) effective November 1, 1937.
 U. P. Hedrick, Director, effective January 15, 1938.
 Molly Maier, Stenographer (Plant Pathology) effective July 1, 1938.
 W. I. Zimmerman, Assistant in Research (Chemistry) effective July 1, 1938.

Deaths:

- Katherine M. Curran, Assistant in Research (Chemistry) December 31, 1937.

Appointments:

- Wm. C. Haynes, Assistant in Research (Bacteriology) effective July 1, 1937.
 Robert F. Brooks, Assistant in Research (Bacteriology) effective July 1, 1937.
 Katherine M. Curran, Assistant in Research (Chemistry) effective July 1, 1937.
 Katherine Wheeler, Assistant in Research (Chemistry) effective July 1, 1937.
 Marylizabeth Wellington, Assistant in Research (Chemistry) effective July 1, 1937.
 Charles J. Tressler, Jr., Assistant in Research (Chemistry) effective August 1, 1937.
 Frank Kopko, Assistant in Research (Chemistry) effective August 1, 1937.
 R. F. Suit, Associate in Research (Plant Pathology) effective November 1, 1937.
 W. I. Zimmerman, Assistant in Research (Chemistry) effective November 15, 1937.
 P. J. Parrott, Director, effective January 15, 1938.
 Mark Ford, Assistant in Research (Bacteriology) effective February 1, 1938.
 Mary M. Kirk, Assistant in Research (Chemistry) effective February 1, 1938.
 Edwin N. Davis, Assistant in Research (Chemistry) effective April 1, 1938.
 Pauline Jennings, Librarian for five months, effective June 1, 1938.
 Pauline Porter, Stenographer, (Plant Pathology) effective July 1, 1938.
 Robert Sumner, Assistant in Research (Chemistry) effective July 1, 1938.

Promotions in Rank and Title:

- George W. Pearce, from Assistant to Associate in Research (Chemistry) effective November 1, 1937.
 Olav Einset, from Assistant to Associate in Research (Pomology) effective November 1, 1937.
 H. O. Jahn, from Florist to Head Gardener, effective November 1, 1937.
 C. O. Willits, from Assistant to Associate in Research (Chemistry) effective January 1, 1938.
 A. W. Hofer, from Assistant to Associate in Research (Bacteriology) effective February 1, 1938.
 Hugh Glasgow, from Chief in Research to Chief in Research and Head of Division of Entomology, effective July 1, 1938.
 F. Z. Hartzell, from Associate to Chief in Research (Entomology) effective July 1, 1938.
 F. L. Gambrell, from Assistant to Associate in Research (Entomology) effective July 1, 1938.

FELLOWSHIPS AND GRANTS-IN-AID

The year was marked by an increase in the number of fellowships and grants-in-aid supported or furnished by scientific institutions and commercial companies. There are now 12 of these in the different divisions as follows: Bacteriology, 3; Pomology, 1; Plant Pathology, 4; Vegetable Crops, 1; Entomology, 1; Chemistry, 2.

The program of investigations has also been enhanced by cooperative experiments with State Departments and the United States Department of Agriculture. This cooperative work is carried on in the following divisions: Bacteriology, 2; Chemistry, 1; Dairying, 4; Pomology, 3; Vegetable Crops, 1; Seed Investigations, 2; Entomology, 2.

In addition, there were 9 projects in cooperation with members of the staff of the New York State College of Agriculture.

COOPERATION BETWEEN THE TWO STATE STATIONS

The union of the two Experiment Stations under the administration of Cornell University during recent years marked a change in the relationship of these institutions and thus paved the way for clearer understanding and closer cooperation. The participation of the two agencies in informal conferences and in other activities for the purpose of unifying research programs and of avoiding duplication of efforts is demonstrating that cooperation is possible and not difficult of solution and that it is leading to results which seemingly could not be obtained in any other way.

CARL E. LADD,
Dean and Director of Experiment Stations.

P. J. PARROTT,
Director of the New York State Agricultural
Experiment Station.

APPENDIX X

REPORT OF THE DEAN OF THE NEW YORK STATE COLLEGE OF HOME ECONOMICS

To the President of the University:

SIR: I have the honor to submit to you the annual report of the New York State College of Home Economics.

The full report of the College for 1937-38 includes the year's developments in resident teaching, extension teaching, and research.

THE STUDENT BODY

An increased appropriation by the state in 1937 enabled the College of Home Economics to furnish additional laboratories, classrooms, and offices; to increase its resident teaching staff by 14 members; and to enlarge the enrollment by approximately 50 additional freshmen and a few additional transfers from other colleges. For the coming year a further appropriation has been made for building equipment. No further increment, however, has been appropriated for personnel; consequently, the college will be obliged to reduce the number of entering freshmen to about 120. Thus, the situation in regard to numbers is still an acute one with more than three times as many applicants as can be accommodated. Whether the problem, however, would be best solved by providing facilities in this college to make possible a materially enlarged student body, or whether other types of educational opportunities which the state could provide, would better meet the interests and abilities of a large number of young people who apply for entrance into this college, is a matter requiring thoroughgoing study by the state.

New students

The total number of applicants for entrance for the year 1937-38 including freshman and advanced standing students, but not including students in hotel

administration, special or graduate students, was 517 as compared with 449 the previous year. Of these, applicants for entrance into the freshman class numbered 425; 161 were accepted, 179 were refused, and 85 failed to complete applications or withdrew before action was taken by the Committee on Admissions. In September 1937, 145 of the accepted freshman applicants registered in the college.

Applicants for entrance with advanced standing numbered 92, of which 20 were accepted, 51 were refused, and 21 failed to complete their applications. In September, 1937, 13 of these accepted advanced-standing applicants registered in the college.

In addition, the College accepted 18 graduate students and 7 special students.

Total enrollment

Home Economics

Freshmen	145
Sophomores	105
Juniors	96
Seniors	85

Special students	43 ¹
	14

Graduate students	445
Summer school students	42
	163

	650
Less number counted twice	13

637

Hotel Administration

Freshmen	85
Sophomores	65
Juniors	57
Seniors	57

Special students	264
	6

Summer school students	270
	164

434

THE STAFF OF THE COLLEGE

Number employed

Exclusive of the Department of Hotel Administration and the members of the administrative staff paid jointly by the College of Home Economics and the College of Agriculture, the College of Home Economics employed during the year 1937-38 a total of 165 persons, some of them for part-time service. Calculated as full-time employees, this number becomes 141. Divided according to major functions, this full-time number is distributed as follows: resident administration, 5; resident teaching, 46½; research, 7½; extension administration, 7½; extension teaching, 20½; clerical, 41; care of building, 13.

During the same period the Department of Hotel Administration employed, excluding staff members paid jointly by the College of Home Economics and the College of Agriculture, a total of 39 persons. Calculated as full-time employees, this number becomes 21. Divided according to major functions, this number is distributed as follows: administration, 1; teaching, 16; clerical, 3; care of building, 1.

Appointments during 1937-38

FOODS AND NUTRITION: Mrs. Emily Macloon Allen, M.A., 1931, Columbia University, instructor (second term); Mrs. Dorothy Stevens Cake, B.S., 1937, Cornell University, part-time assistant; Mollie Emerson Parker, candidate for B.S. degree in June, 1938, Simmons College, part-time assistant (second term); Mrs. Laura Lee W. Smith, Ph.D., 1930, University of California, part-time instructor (first term); Kathryn May Traer, B.S., 1936, Parsons College, Iowa, part-time assistant; Ellen Kemp Watson, B.S., 1937, Utah State College, part-time assistant.

TEXTILES AND CLOTHING: Mrs. Helen Powell Smith, B.S., 1921, Pennsylvania State College, acting extension assistant professor.

HOUSEHOLD ART: Norma Edwards, B.S., 1929, Simmons College, part-time assistant; Kathleen McBride, A.B., 1924, University of Washington, instructor.

ECONOMICS OF THE HOUSEHOLD AND HOUSEHOLD MANAGEMENT: Clara Jonas, B.S., 1923, Cornell University, part-time research assistant.

FAMILY LIFE: Mrs. Blanche Miller Hedrick, M.A., 1934, University of Iowa, extension instructor; Mrs. Christine Morgan Morton, M.A., 1929, Columbia University, instructor; Olive Woodruff, M.A., 1937, Ohio State University, instructor.

INSTITUTION MANAGEMENT: Janet Jardine, B.S., 1937, Columbia University, assistant manager of the cafeteria; Dorothy May Luchsinger, B.S., 1935, University of Nebraska, part-time research assistant; Martha Roberts, B.S., 1937, Iowa State College, part-time research assistant.

STUDENT GUIDANCE: Mrs. Helena Perry Leahy, B.S., 1931, Cornell University, part-time instructor, homemaking apartment; Margaret Mercer, M.S., 1934, Pennsylvania State College, instructor; Margaret Elizabeth Raffington, M.S., 1928, Kansas State College, M.A., 1937, Columbia University, instructor.

EXTENSION ADMINISTRATION: Eunice Heywood, B.S., 1929, Oregon State College, home demonstration agent at large.

Changes in title and promotions during 1937-38

FOODS AND NUTRITION: Ruth Ellen Closson, from assistant to instructor; Catherine Personius, from research assistant to assistant professor.

TEXTILES AND CLOTHING: Mrs. Gladys Butt, from extension instructor to assistant professor; Muriel Brasie, from assistant professor to extension assistant professor; Mrs. Ida Osborne Perez, from extension instructor to instructor.

ECONOMICS OF THE HOUSEHOLD AND HOUSEHOLD MANAGEMENT: Eleanor Elaine Knowles, from research assistant to extension instructor.

FAMILY LIFE: Katherine Reeves, from assistant professor to assistant professor and head of the nursery school.

ADMINISTRATION: Caroline Morton from extension assistant professor and assistant state leader of home demonstration agents to assistant professor and administrative assistant.

Resignations during 1937-38

FOODS AND NUTRITION: Mrs. Emily Macloon Allen, M.A., 1931, Columbia University, instructor, June 30, 1938; Wilma Blanche Beckman, M.S., 1932, University of Chicago, part-time research assistant, June 30, 1938; Mrs. Dorothy Stevens Cake, B.S., 1937, Cornell University, part-time assistant, June 30, 1938; Mrs. Lola Dudgeon, B.S., 1934, Purdue University, part-time research assistant, June 30, 1938; Mrs. Elizabeth Pittman Neuschwanger, B.S., 1936, Kansas State College, part-time assistant, June 30, 1938; Mrs. Eleanor Brewer Schempf, B.S., 1934, University of Wisconsin, part-time assistant, June 30, 1938; Dorothy Scofield, B.S., 1932, Cornell University, part-time research assistant, June 30, 1938.

TEXTILES AND CLOTHING: Joan Di Stefano, B.S., 1936, Columbia University, instructor, June 30, 1938; Mrs. Ida Osborne Perez, M.A., 1933, Columbia University, instructor, June 30, 1938.

HOUSEHOLD ART: Norma Edwards, B.S., 1929, Simmons College, part-time assistant, June 30, 1938; Kathleen McBride, A.B., 1924, University of Washington, instructor, June 30, 1938.

FAMILY LIFE: Mrs. Christine Morgan Morton, M.A., 1929, Columbia University, instructor, June 30, 1938.

STUDENT GUIDANCE: Edna Mitchell, B.S., 1931, Buffalo State Teachers College, instructor, June 30, 1938; Margaret Elizabeth Raffington, M.S., 1928, Kansas State College, M.A., 1937, Columbia University, instructor, June 30, 1938.

Appointments to be effective on July 1, 1938, or later

FOODS AND NUTRITION: Alice M. Briant, B.S., 1938, McGill University, Canada, part-time research assistant; Josephine Brooks, M.S., 1929, Kansas State College, part-time assistant; Betty Collins, B.S., 1938, University of California, part-time research assistant; Katherine Johnson, B.S., 1938, Utah State Agricultural College, part-time research assistant; Ruby Amelia Osterman, M.S., 1938, University of Washington, part-time assistant; Lois Purdey, M.S., 1936, Cornell University, extension instructor (first term); Clafa Amanda Storvick, M.S., 1933, Iowa State College, part-time research assistant.

TEXTILES AND CLOTHING: Frances Waring Fletcher, A.B., 1937, Marshall College, assistant (first term); Hazel Tharp, M.S., 1938, Pennsylvania State College, instructor (first term).

HOUSEHOLD ART: Vera Engel, B.F.A., 1931, University of Washington, assistant.

ECONOMICS OF THE HOUSEHOLD AND HOUSEHOLD MANAGEMENT: Ann Aiken, M.A., 1938, Michigan State College, research assistant; Barbara Josephine Barber, B.S., 1936, University of Nebraska, research assistant; Jessie Alice Freeman, B.S., 1936, Cornell University, assistant; Lucy Balmaine Hunter, A.B., 1938, Marshall College, research assistant; Evelyn Mae Krotz, B.S., 1932, University of Nebraska, assistant; Rose E. Smith, A.B., 1938, Cornell University, assistant.

FAMILY LIFE: Mary Ford, M.A., 1933, University of Toronto, instructor.

Changes in title and promotions to be effective on July 1, 1938, or later

FOODS AND NUTRITION: Mollie Emerson Parker, from assistant to research assistant.

ECONOMICS OF THE HOUSEHOLD AND HOUSEHOLD MANAGEMENT: Ruth E. Henderson, from assistant to extension instructor; Eleanor Elaine Knowles, from extension instructor to instructor; Mildred Spicer, from research assistant to assistant.

EXTENSION ADMINISTRATION: Carrie C. Williams, from assistant state leader of home demonstration agents to extension professor and assistant state leader of home demonstration agents.

FAMILY LIFE: Mrs. Mary Peabody, from assistant to instructor.

Leaves of absence, 1937-38

Olga Brucher, first term (sabbatic); Faith Fenton, second term; Margaret Humphrey, first and second terms; Dorothy Roberts, second term; Flora Rose, second term (sabbatic); Catherine Stanken, first and second terms; Florence Wright, first term (sabbatic).

CARL E. LADD,

Dean, New York State College of Home Economics.

FLORA ROSE,

Director, New York State College of Home Economics.

APPENDIX XI

REPORT OF THE ACTING DEAN OF THE COLLEGE OF ARCHITECTURE

To the President of the University:

SIR: I have the honor to submit the following report for the College of Architecture for the year 1937-38.

The year opened with one hundred and twenty-eight students registering in the College. This is three less than the already diminished enrollment of the preceding year. Having a physical capacity of approximately one hundred and sixty students, the College is in a position to welcome a larger enrollment. On that subject I shall have more to say further on in this report.

Last year Dean George Young, Jr., ended his report with the statement that the College in many respects was facing critical decisions regarding its faculty. This has been brought home to us very strongly because on July 4, 1937, Professor A. C. Phelps died after a year of serious illness, and on July 24, Dean Young himself was taken critically ill with a heart attack, an illness which confined him to his home for more than five months. Early last January he went to California for a rest of two and a half months and returned feeling much stronger and able to take up his work in teaching.

Last September a meeting of the College Council was held in New York to discuss the various problems of the College, and particularly those raised by the sudden illness of Dean Young. The whole situation was discussed at length and all agreed on the immediate appointment of an Acting Dean and of the importance of the fact that the College was now at a stage where new appointments would be immediately necessary. Late in September the undersigned was appointed Acting Dean and this was approved by the Board of Trustees on October 11.

At the January meeting of the Board of Trustees, Professor Gilmore D. Clarke was appointed Dean of the College of Architecture, to take effect July 1, 1938. Because of Professor Clarke's numerous professional activities, it was recognized that for the next few years he would not be able to spend more than half of his time in Ithaca. For this reason, the undersigned was, at the same time, appointed Assistant Dean.

I cannot let this opportunity pass without telling you of the commendation expressed by the Faculty of the College of Architecture and by numerous others in the University community and among our alumni for the splendid, enthusiastic, and thorough work of Dean Young during the nine years in which he held the deanship. He has accomplished an outstanding piece of work in the development of the College in spite of the trying national economic situation. It goes without saying that his advice and counsel will be sought and valued by the incoming administration. One of the most important things he has done is the bringing of our alumni into much closer contact with the work of the College. Dean Young was elected in April to the presidency of the Association of Collegiate Schools of Architecture and has also been appointed a member of the Committee on Education of the American Institute of Architects.

The loss of Professor Phelps is lamentable. For years the College Faculty had looked to him for counsel and no important decisions had been reached without his approval. His work in the History of Architecture has been satisfactorily carried on by Professor Dunbar, but nobody can immediately succeed to the larger place which Professor Phelps' ripe culture and sound judgment had earned for him in the Faculty's deliberations.

Professor Olaf M. Brauner reached the retirement age more than a year ago, but has been carrying on part-time work in the Department of Fine Arts and will continue to do so until the end of the first term of the year 1938-39. Here again we are sensible of what we shall lose by his retirement, after forty-two years of invaluable service. The Faculty fully realizes that it will be no ordinary task to

replace the teachers whom we have lost or who will have retired within the next few years.

Professor Midjo unfortunately has had to take an extra term of leave of absence because of ill health. He is expected to return in September. To take his place we were fortunate in finding Mr. James O. Mahoney, who had graduated from the Southern Methodist University at Dallas, Texas, and from Yale University, and had subsequently held the Fellowship in Painting at the American Academy in Rome. We have all been delighted with his year's work. At the same time Mr. Ross Braught, a graduate of the Pennsylvania Academy of Fine Arts and holder of the Cresson Travelling Fellowship, was appointed Acting Assistant Professor to fill the vacancy in the Fine Arts Department caused by the resignation, last year, of Professor Harry Camden. Mr. Braught is not a new man on the campus, having taught drawing and painting in three successive Summer Sessions.

After the illness of Dean Young it was realized that a man would have to be brought in to help out in the Construction courses and we were fortunately able to persuade Mr. Ludlow D. Brown to continue on for one more year. He has now accepted a responsible position in New York. His loss will be great, but it seems more important that he have a few years of practical work in the field before he is asked to come back as a member of the College staff. Mr. Harrison P. Reed, who just graduated here as a Bachelor of Architecture, has been appointed instructor in the Department of Construction for the coming year.

During the last year Professor Hartell of the Department of Design has been absent on leave and earnestly at work in New York City with an outstanding architectural firm. It may be that he will remain there for at least the first term of the coming school year. Professor Eugene D. Montillon took a sabbatical leave of absence for the second semester of the year just past. He has improved that opportunity for travel with the purpose of studying the important examples of architecture and landscape architecture in Louisiana, Mississippi, and Virginia, particularly in connection with his work in the history of landscape architecture, wherein he is bringing out in new detail the very close relationship that has come to be recognized between architecture and landscape architecture.

Because of the resignation of Professor Harry Camden, the instruction in modeling and sculpture was taken over during this year by Professor Washburn. He has done the work very successfully, but only by over-exerting himself, and it would be asking too much of him to allow him to continue that work in addition to his many other duties. We are now trying to find the proper man to relieve him of his extra burdens.

While discussing the subject of teaching I must not omit to express the gratification felt by the College of Architecture for the close relationship lately established between this Faculty and that of the College of Arts and Sciences, through the election of Assistant Professor F. O. Waage to membership in our Faculty and the coincident seating of Professor Donald L. Finlayson in the Faculty of the College of Arts and Sciences. The long established interconnection of this College and the College of Engineering continues very happily.

The College library is increasingly used, not only by our own students but by those of other University divisions, and particularly for graduate work in History and in the Fine Arts. The library now has more than 8400 volumes on its shelves. Accessions during the last year numbered 110. The slide room contains approximately 30,500 lantern slides. Among these are more than one thousand colored slides made by Professor Lawson from photographs which he took during a tour of Europe last year. The slide collection, as we are glad to note, is more and more used by members of the University Faculty in general. The College seems to be becoming of more value as a service department for all the other colleges of the University, notable examples of this being the popularity of Professor Bosworth's class in the Appreciation of Architecture, of Professor Finlayson's in the History of Art, and of Professor Clarke's in Regional and City Planning.

The class which entered in September 1937 is unusually talented. Its (29) students, most of whom are in Architecture, include nine in the Department of Fine Arts and two in the Department of Landscape Architecture. This is the

largest entering class the Department of Fine Arts has ever had, and the applications for admission in September 1938 indicate that the next new class will include six or eight in Fine Arts and four or five in Landscape Architecture out of a total of perhaps three or four more than we had last year. The graduating class this year numbered twenty-four.

It is a pleasure to record the recent gift of Mrs. Sadie Boulton Eidlitz of the sum of \$30,000 for a graduate fellowship in Architecture. This is to be designated in memory of her husband, a distinguished Cornell alumnus of the Class of 1885, as the Robert James Eidlitz Fellowship Fund. Its essential purpose is to provide, for exceptionally promising students who could not otherwise afford it, an opportunity to supplement, in such ways and in such places as may be best suited to their individual needs, the professional training which they have received in the College of Architecture at Cornell University. The annual income, approximately \$1200, may, under the terms of the generous gift, either be all awarded to one student or divided between two.

It is also a pleasure to inform you that the Shreve, Lamb and Harmon Professional Fellowship has again been made available to the College. The purpose of this fellowship is to provide better than usual conditions under which a student may make the transition between school work and practice. The student to whom this fellowship is awarded becomes a member of the staff of Shreve, Lamb and Harmon, Architects, New York City, for the term of one year, during which time he is employed at such work as is considered most likely to advance his special ability, aptitude, or interest, and is at the same time encouraged to study his office work as he did his student work. For 1938-39 this fellowship has been awarded to Nicol Bissell of the Class of 1938.

Professor Clarke's courses in Regional and City Planning have continued to attract students of this College as well as of the Colleges of Engineering, Agriculture, and Arts and Sciences. For the first time this year the Department of Regional and City Planning has actively cooperated with the School of Civil Engineering in offering a course in Modern Highway Planning and Design, credit three hours. Professor Clarke and Professor Conwell, of Civil Engineering, have worked together. The Regional and City Planning work has definitely passed the experimental stage. It has taken an important place in the University and the problem now is to find means of increasing the facilities afforded to graduate students for major work in this field of study. That expansion has been planned for and we have already added an instructor in the person of Mr. Thomas W. Mackesey, graduate in Architecture of the Massachusetts Institute of Technology, who comes to us from the New York State Planning Board at Albany and has been highly recommended by the able authorities in the field of large scale planning. As you know, this work was started with funds made available from the Carnegie Corporation of New York and was renewed, after a period of two and half years, to cover another two years. These appropriations will run out in July, 1940. We strongly recommend that the University arrange to continue the work in Regional and City Planning beyond that date.

The College has been holding collaborative problems in Design in connection with the Massachusetts Institute of Technology, the Rensselaer Polytechnic Institute, and the University of Minnesota. This year Professor Bosworth spent a week at the University of Minnesota as a critic in Design and later in the year Professor Roy Childs Jones of that University spent a week with us. Outside lecturers during the past year have included Messrs. Russell Black, Planning Consultant of the States of New Jersey and Pennsylvania; Clarence Stein, the architect of several important housing projects, and Dwight James Baum of New York. We have also had informal visits from other well-known architects.

In order that the "teaching load" be fairly distributed and the proper allowances made for sabbatic leaves, we find that the proportion of students to faculty is now about what it should be. As I said at the beginning of this report, however, an increasing approximation of the student enrollment to the physical capacity of the College, about one hundred and sixty, is desirable. Such an increase should of course be accompanied by the necessary increase in faculty members. At the

time when we had as many as one hundred and sixty students, we had only one or two more on the staff than we have now, but it is important to note that we were not at that time able to grant sabbatic leaves when they should have been granted. Another factor that ought not to be overlooked is the increasing value of the College of Architecture as a service department for the University as a whole. The uncertainties of these times keep the building industries at a comparatively low ebb, but it is encouraging to note that in the last two years an increasing number has not only sought admission to the College but has also satisfied the requirements for admission.

Last summer a few changes were made in White Hall. Among them was the installation of proper shelving and display cases for our samples of building material. At the same time a considerable amount of painting and repair work was done in the top story of Franklin Hall. At present the freehand drawing rooms are in proper condition, except for the lighting facilities, and one large new studio has been provided in Morse Hall. During the Christmas recess adequate toilet facilities were also arranged for on the top floor of Franklin Hall. These were made necessary by the increased enrollment in the Department of Fine Arts.

The College has been glad to cooperate with Willard Straight Hall during the last year in the work of bringing the art world before the University public. We have found that this is a much more desirable arrangement than to use the art gallery in Morse Hall, which is in such a poor state of repair and so far removed from the center of University life.

In the summer of 1937 courses were given in drawing and painting and in advanced design in architecture and landscape architecture. The work in drawing and painting was carried on by Professor Stone and Mr. Braught, and in design by Mr. Michael Rapuano, landscape architect of New York City, and Professor Roger S. Bailey of Yale University.

Early in the second term the faculty voted unanimously to approve certain changes in the entrance requirements. This was done after careful consideration and with the hearty approval of the Director of Admissions, Dr. Bradford. The essential change is to give applicants the option of offering, instead of three units in a foreign language (or two units in each of two languages), either three units of history or three units of science. This will involve no considerable change in the curriculum, which will continue to give room for the study of a foreign language, of history, and of science, to compensate for whatever a student may have lacked of all of them at the time of his admission.

It is a pleasure to record once more the success of a graduate of this College in winning the Fellowship in Landscape Architecture of the American Academy in Rome. The 1938 competition was won by Stuart M. Mertz, graduate of the Pennsylvania State College in 1937 and of Cornell in 1938.

JOHN N. TILTON, JR.,
Acting Dean of the College of Architecture.

APPENDIX XII

REPORT OF THE DEAN OF THE COLLEGE OF
ENGINEERING

To the President of the University:

SIR: I have the honor to present herewith the report upon the work of the College of Engineering for the year 1937-38.

Herman Diederichs, Dean of the College of Engineering since July 1, 1936 died August 31, 1937. Dean Diederichs had been associated with the Sibley School of Mechanical Engineering for more than forty years; first as a member of its faculty, and then from 1921-36 as Director of the School. He also held the Chair of the John Edson Sweet Professorship in Engineering. He had served the College and the University in many important ways and had contributed extensively to his profession. In his passing the College mourns the loss of one of its notable men.

Myron A. Lee, Professor of Industrial Engineering, died May 8, 1938. He had been a member of the Faculty of the Sibley School of Mechanical Engineering for twenty-nine years. In association with Dean Emeritus Dexter S. Kimball he had made important contributions in the development of his particular field. His untimely death is keenly felt by the College of Engineering.

During the year three distinguished members of the staff have retired: E. H. Wood, Emeritus Professor of Mechanics, H. N. Ogden, Emeritus Professor of Sanitary Engineering, and J. T. Parson, Emeritus Professor of Engineering Drawing.

The College has lost six members of the staff due to resignation:

Colin Carmichael, Assistant Professor of Machine Design; L. F. Welanetz, Instructor in Mechanics; H. L. Goodman, Instructor in Experimental Engineering; E. R. Paige, Instructor in Electrical Engineering; D. Ramadanoff, Instructor in Electrical Engineering; W. D. Vanderbilt, Jr., Instructor in Industrial Engineering.

The following changes in the staff of Administration of the College have taken place during the year.

S. C. Hollister, formerly Director of the School of Civil Engineering, and Associate Dean of the College, became Dean of the College on October 30, 1937; W. N. Barnard, Professor of Heat Power Engineering and Acting Director of the Sibley School of Mechanical Engineering, became Director of that school February 1, 1938; P. M. Lincoln who retired as Director of the School of Electrical Engineering on June 30, 1937 became Acting Director of that school on July 1, 1937; P. H. Underwood, Professor of Surveying in the School of Civil Engineering became Acting Director of that school on October 13, 1937.

R. F. Howes was appointed Assistant to the Dean, December 1, 1937. Mr. Howes has been largely concerned with relations with secondary schools and with various publications of the college. The recent booklet entitled, "Engineering at Cornell" is largely his work.

Several important additions have been made to the staff of the Sibley School of Mechanical Engineering during the year. P. H. Black, formerly of the University of Illinois, was appointed Assistant Professor of Machine Design; M. V. Barton, formerly with the Bureau of Reclamation, was appointed Instructor in Machine Design; A. S. Schultz, Jr. was appointed Instructor in Administrative Engineering; B. J. Conta and W. P. Bebbington were appointed Instructors in Experimental Engineering; G. H. Lee was appointed Instructor in Mechanics; M. W. Lee was appointed Instructor in Machine Design for the second term; Professor F. G. Switzer, Professor of Mechanics and Hydraulics in the Sibley School of Mechanical Engineering was appointed Head of the Department of Mechanics in that school; J. O. Jeffrey, J. R. Moynihan, H. J. Loberg, and C. I.

Millard, Instructors in the Sibley School of Mechanical Engineering, were advanced to the rank of assistant professor.

During the coming year Dr. J. N. Goodier will be Acting Professor of Mechanics in the Sibley School of Mechanical Engineering. Dr. Goodier, who received his training at Cambridge, England under Professor C. E. Inglis, and at the University of Michigan under Professor S. Timoshenko, comes to Cornell after having served seven years on the staff of the Ontario Research Foundation. Mr. N. O. Myklestad, from the University of California, also joins the staff in Mechanics as an Instructor for the coming year.

In the School of Electrical Engineering E. W. Manning, formerly of the General Electric Company, was appointed Instructor.

Dr. William Lindsay Malcolm, formerly Head of Municipal Engineering at Queens University, Kingston, Ontario, has been appointed Director of the School of Civil Engineering, effective July 1. Dr. Malcolm received his first training at Queens and his graduate training at Cornell. He comes to the School with a rich experience in teaching and in engineering practice.

C. M. Pendleton, Instructor in Civil Engineering, was advanced to the rank of Assistant Professor for the coming year.

During the year the Trustees of the University authorized the establishment of a new School of Chemical Engineering in the College of Engineering to begin functioning on July 1. The school will be under the direction of Dr. F. H. Rhodes, under whose effective guidance the work in Chemical Engineering has heretofore been developed in the Department of Chemistry of the College of Arts and Sciences. The school will offer a five-year course leading to the degree of Bachelor of Chemical Engineering, as well as graduate work leading to the Master's and Doctor's degrees. The staff of the new school will be further strengthened by the appointment of Assistant Professor Dr. Oscar J. Swenson, formerly of the DuPont Company.

The program of training for teachers in the field of Industrial Vocations is being developed in cooperation with the Graduate School of Education. Dr. Lynn A. Emerson has been appointed to the staff of the Graduate School of Education and will also have a seat in the Faculty of the College of Engineering.

During the year the Trustees of the University authorized the increase in stipend of the John McMullen Regional Scholarships to \$400 a year, thus offsetting the tuition in the College of Engineering. Thirty of these scholarships are awarded each year in fifteen districts covering the entire country outside of New York State. Each scholarship covers the entire period of undergraduate work so long as the holder maintains a satisfactory grade in his work.

During the year several important conferences have been held through the cooperation of the College and the organizations concerned. In November a two-day conference under the joint sponsorship of the American Foundrymen's Association was held here. In April a conference under joint sponsorship with the Municipal Training Institute of the Department of Health, and other related organizations was conducted for three days. In June a conference held jointly with the College of Agriculture, The Association of Town Highway Superintendents, and other related organizations, was conducted for a four-day period. During March a two-weeks training course in Sewage Works Operation was conducted in cooperation with the Municipal Training Institute for those operators who desired to qualify in accordance with the new regulations of the State Public Health Council. These conferences and schools continue to be a source of virtual profit to the staff of the College as well as to those of the State who come here to participate in them.

With the steadily increasing enrollment in the College it appears likely that during the coming year we will reach capacity in several of the schools. Our most urgent need is increased facilities in the form of additional space and equipment in order that the teaching and research work of the College may be further developed.

S. C. HOLLISTER,
Dean of the College of Engineering.

APPENDIX XIII

REPORT OF THE DIRECTOR OF THE GRADUATE SCHOOL OF EDUCATION

To the President of the University:

SIR: I have the honor to present the report of the Director of the Graduate School of Education for the year 1937-38.

ENROLLMENT*

There has been a decline of nineteen undergraduates enrolled in Education during the year 1937-38, as compared with 1936-37. Of the 634 enrolled, 212 were seniors; 269, juniors; 168, sophomores; 3, freshmen; and 22, specials. Of the total number, 387 were women and 247 were men. Four hundred and fifteen were registered in the Department of Rural Education and 219 were registered in the Department of Education.

Although there has been little change in the total number of graduate students enrolled this year as compared with 1936-37, there has been a marked increase in the number of majors for the Doctorate. Some interesting details are given in the following analysis:

	1937-38		1936-37	
	First term	Second term	Both terms	Both terms
I. Number of different students registered:				
a. With Education* as a major.	45	45	59	48
b. With Education* as a minor.	43	34	44	50
II. Number who are candidates for:				
a. Ph.D. (major in Education*).	21	20	25	12
b. Ph.D. (minor in Education*)	19	18	21	21
c. M.A. or M.S.	28	24	29	45
d. M.A.Ed. or M.S.Ed.	13	15	21	11
e. Other degrees.	2	2	2	2
f. No degree.	5	0	5	7
III. Geographical Distribution:				
a. Number of different states represented	24	26	29	24
b. Number of foreign countries represented	6	4	6	3
c. Number from New York State.	40	37	51	45

Of particular significance in such a field as Education is the wide geographic distribution of these students.

PLACEMENT

Mr. Eldred, Chairman of the Bureau of Educational Service, has presented certain significant data regarding placements covering the period from November 16, 1936, to November 15, 1937. From his report the following statements are quoted:

"It will be noted from the table below that the placements for 1937-38 showed a good increase over those for 1936-37. A more detailed study (the data of which are not presented here) shows that the bulk of the senior placements was in the special fields of home economics and vocational agriculture, although there was a fair increase in the number of academic teachers placed.

*Education or Rural Education.

	<i>For</i> 1937-38		<i>For</i> 1936-37	
Number placed:				
Seniors	76		71	
Graduate students in residence	47		37	
Graduates in residence	2		1	
Graduate students in the field	91		85	
Graduates in the field	65	281	67	261
Positions filled:				
Through Bureau on direct notice from employer to University	90		94	
Through University outside Bureau	18		16	
Through individual effort with aid of Bureau	53		25	
Through individual effort alone	61		76	
Through outside placement bureaus and commercial agencies	47		33	
Uncertain	12	281	17	261
Institutions supplied:				
Colleges, universities, and normal schools	77		69	
Private schools	10		14	
Public schools	167		141	
Other institutions	27	281	37	261

"Due primarily to economic conditions and the recent tenure laws, the Bureau has experienced a rather marked decrease in demand for secondary school teachers this year. The placement record to date (June 7), however, is almost the same as that of this time last year.

"The demand in the special fields of home economics and vocational agriculture has exceeded our supply. The demand in the academic subjects has decreased. There is, however, much evidence to show that we could place more well-qualified candidates than are registered with the combinations of English and library, mathematics and science, French and Latin, and almost any subject-matter field combined with physical education and coaching."

Particular attention should be given to Mr. Eldred's comment on the need for certain types of subject combinations in which Cornell students are commonly not prepared. This University has held the ideal of thorough preparation in a limited field. While this is praiseworthy, we cannot ignore the fact that in the smaller schools to which our beginning teachers go, they must commonly be qualified to give instruction in two, and frequently more, distinct fields. We need, therefore, not only to advise students more definitely about the combinations in academic subjects that they will actually face when seeking a position, but we should make some arrangements whereby instruction in such fields as library and physical education may be made available. For library training, our policy has been not to offer the facilities ourselves but, rather, to utilize, through summer session attendance, those programs that are already in existence in other New York institutions.

While recognizing these conditions to which we must adjust ourselves if our graduates are to receive appointments, there are certain factors that are tending slowly toward the development of the conditions that we would like to have prevail. In the first place, the centralization of schools in New York State is bringing about an enlargement of the high school teaching staff, so that specialization in teaching duties becomes more practicable. In the second place, increasing thought is being given to the standardization of teaching combinations. During the last three years requests for teachers have come to our Bureau calling for nineteen different combinations with English and eleven with Science. If these combinations could be reduced to three or four, it would, naturally, be much more

practicable for students to make adequate preparation. This is a problem that calls for the cooperation of the public schools, the State Education Department, and the teacher-training institutions.

During the year the Chairman of the Bureau has visited 118 schools and has interviewed 210 school administrators, board members, and teachers. While these visitations have frequently been made for the purpose of contacting placement officials regarding vacancies, the underlying objective has been the building of cordial relationships between the Graduate School of Education and the public schools. Such visitations have also given opportunity for the University to show its continued interest in its graduates who hold positions in the schools.

PREPARATION OF SECONDARY SCHOOL TEACHERS

During the last two years we have been giving consideration to the policies that should be established at Cornell for the training of secondary school teachers. After extensive discussion, the Faculty of the Graduate School of Education has approved the establishment of a five-year program in this field. That this action is wise is evident to all who are familiar with the increasing demands made upon such teachers. The present appears to be an appropriate time to take such a step in view of the oversupply of academic teachers in this section of the country. As a matter of fact, some of us believe that, within the next decade, training for such workers is likely to extend even beyond the Master's degree to such an extent that a goodly proportion of teachers in high schools will have had two or more years of preparation on the graduate level. A committee, appointed by President Day, is now engaged in the task of laying out the general pattern for the preparation of various types of secondary school teachers.

This is an appropriate time to review briefly, for the information of the University community, certain aspects in our present program. The University cooperates with the Ithaca public schools in maintaining joint positions in English, Science, and the Social Studies. In Agriculture and in Homemaking such joint positions are in effect in both Ithaca and Trumansburg. In order that students may be given a larger opportunity to secure experience in different types of teaching situations, arrangements are being made for apprentice teaching in nearby towns. For 1938-39 such opportunities will be provided in Agriculture at Dryden, Moravia, King Ferry, Trumansburg, and Ithaca, and in Home Economics at Trumansburg and Dryden. While this apprentice work has thus far been offered only to vocational teachers, it is hoped that, when the five-year program becomes effective, the same opportunities may be extended to teachers of academic subjects.

VOCATIONAL EDUCATION

The passage of the Federal George-Deen Vocational Bill makes it possible to strengthen and to extend the program already offered in this field. Dr. Roy A. Olney, formerly of the University of West Virginia, has been appointed Assistant Professor, giving attention to Agricultural Education. Five centers for apprenticeship training in agriculture have been established, as indicated above. In Home Economics Education an additional professorship has been added and two apprenticeship centers have been established. By means of this addition to the staff and through cooperative relationships that it is hoped will be worked out with the College of Home Economics, it is expected that Cornell will provide unusual facilities on the graduate level for supervisors, extension workers, teacher trainers, and administrative officers in Home Economics.

An entirely new development, so far as the regular academic year is concerned, will be the offerings in Industrial Education. During the last several summers Cornell has been giving courses for those preparing themselves to be leaders in this field. The success of this venture has resulted in the appointment of Dr. Lynn A. Emerson as Professor of Industrial Education. All work offered under this new program will be on the graduate level, it being expected that we shall devote our attention primarily to the preparation of directors of vocational edu-

cation and of teachers, supervisors, and principals for technical and industrial high schools.

With this addition to the work in Home Economics Education and Agricultural Education for which Cornell has long been known, our facilities in the entire vocational field will be greatly strengthened. It is entirely appropriate that Cornell, with its reputation for educational liberalism, should extend its leadership into Industrial Education. Modern society is changing radically and this type of educational service will undoubtedly be of particular significance in the future. There are, of course, many levels of vocational performance, beginning with that which represents the trade work in the semi-skilled phases of industry to the highest type of professional service, as represented in Engineering, Architecture, and the like. Cornell will, presumably, not undertake the preparation of teachers for schools that train for the lower levels. There is, however, need for a considerable increase in the number of school officers prepared to work in the areas lying between the trade group on the one hand and the professional group on the other. Already many of the larger cities of the country have developed vocational and technical high schools for the preparation of workers in automechanics, in radio, in telephonic communication, in photography, and in a multitude of comparable vocations. Illustrative of institutions of this kind are the Technical High School of Brooklyn, the Textile High School of New York, the Seneca and the Technical High Schools of Buffalo, and the Lane Technical School of Chicago. New York, among other cities, is planning a very large development in these directions during the next few years. These newer schools merely reflect the developments that have taken place in industry.

In training leaders for the several vocational fields, it is, of course, essential that ability to practice a vocation be stressed. Cornell however, does not plan to stop at this point. The worker must assume, along with all other citizens, responsibility for dealing with various types of problems in modern life; particularly must he understand the principles and laws governing economic life in a democratic society. It is, therefore, expected that the leader in vocational education trained at Cornell will be given a sufficient background in technology, in sociology, in economics, and in education that he can become outstanding as a leader within his group. If Cornell achieves these ideals, she will have made a contribution of incalculable value to present-day society.

RESEARCH

Although we are still considerably short of a desirable goal as regards financial aids for research, substantial progress can be reported. Three assistantships, beginning in 1937-38, were provided at such a late date that announcement of them could not be made in the last report. One was a \$500 assistantship in Science Education. Of outstanding importance were two Research Assistantships of \$1000 each in the general field of Rural Education.

In addition to these, eleven new assistantships and fellowships are available for 1938-39: one of \$750 in Educational Psychology; one of \$800 and another of \$500 in Nature Study; five of \$400 each in Industrial Education; one of \$500 and a second of \$600 in Social Studies, and one of \$500 in Science Education. The last two have been created through arrangements with the Ithaca Board of Education. The assistance in Nature Study takes the form of fellowships granted by Charles Lathrop Pack for work in Conservation Education under the direction of Professor E. L. Palmer. Except for these two latter aids, no funds are available for travel, apparatus, supplies, or clerical assistance in connection with research. The need for such assistance in certain types of studies is evident.

There is increasing evidence of a trend toward the concentration of the research in Education at Cornell so that the various specific studies are related to fundamental problems. Attention has been called to this situation in years past. There is need also for stressing that type of research in which experimental and statistical evaluation of factors becomes possible. Too much of the research in Education is of the survey or "normative" type.

OTHER DEVELOPMENTS DURING THE YEAR

The enrollment in Education courses during the 1937 Summer Session was practically the same as in 1936. Five hundred and ninety-two students had 1236 registrations in Education courses. These students came from 33 different states and four foreign countries. Of the total, 18 were college teachers, 91 were principals and superintendents, while the remainder were elementary and secondary school teachers and educational specialists of various kinds.

The fourth summer conference, dealing with "The Problems of the Unadjusted Child", was held from August 2-6, 1937. One hundred and twenty-eight persons outside of the Summer School were registered, representing New York, New Jersey, Ohio, Pennsylvania, and Rhode Island. The fifth summer conference, which will come during the 1938 Session, will undertake to bring together the several conferences that have been held during the summer session. The problem discussed will be "Facing the Problems of Youth".

On July 16, 1937, a conference on the work of the Educational Policies Commission of the National Education Association was held at the suggestion of the Commission. Approximately one hundred persons outside the Summer Session attended.

The Annual Institute for Parent-Teacher Leaders has come to be recognized as one of the outstanding activities of its kind in the country. Cornell's Thirteenth was held during the period April 25-29, the general theme of the Conference being "Education in Democratic Patterns of Living". Approximately six hundred persons were in attendance; of these, four hundred and seventy-five were registered.

Naturally, members of the staff render various types of services to the public schools. During this year sixteen members of the staff made 268 visits to secondary schools. Fifteen members gave one hundred and sixteen lectures to approximately 20,480 persons.

Courses in Industrial Arts Education for the training of a limited number of leaders have been offered for several summers. Certain difficulties in granting admission to the Graduate School to this group have led to the appointment, by the President, of a University committee to study the matter and to confer with a committee representing the State Education Department. A report is expected during the coming year.

TWO IMPORTANT PROBLEMS

Our offerings at Cornell have been developing without fundamental reorganization for a score of years. I find a growing belief among the staff that the time has come to review these offerings in the light of newer conceptions and needs. In some cases new courses are, perhaps, desirable, but by careful planning according to accepted principles of curriculum building there should result a type of integration that will give the student a more substantial program of professional courses.

Likewise there appears to be need for reducing the number of different fields in Education in which graduate majors are offered. At present there are seventeen. A combination of these into three or four basic aspects of professional work should result in a better coordination among the various courses.

JULIAN E. BUTTERWORTH,
Director of the Graduate School of Education.

APPENDIX XIV

REPORT OF THE ADMINISTRATIVE BOARD
OF THE SUMMER SESSION

To the President of the University:

SIR: I have the honor to submit in behalf of the Administrative Board of the Summer Session the following report of the Session of 1937.

The term of service of Professor J. E. Butterworth on the Administrative Board expired on November 1, 1936, and he was reappointed for the usual term of four years.

For the first time in recent years the Announcement of the Summer Session was illustrated with cuts of scenes on the Campus or about Ithaca. Its attractive appearance brought letters of commendation from many Cornell alumni and notably increased the number of requests for the Announcement.

The Summer Session of 1937 began on July 5 and ended on August 14. The faculty consisted of 213 members of the University staff, and 40 instructors from other institutions. The total number of courses offered was slightly greater than in 1936.

The registration showed some gain. Other significant facts about attendance are shown in the following tables, in some of which corresponding data for 1936 are given for comparison.

ATTENDANCE

	1936	1937
Men.....	1076	1139
Women.....	848	857
Totals.....	1924	1996

ATTENDANCE BY SCHOOLS

	1936	1937
University Summer School.....	1313	1342
State Summer School of Agriculture.....	916	878
State Summer School of Home Economics.....	172	163
Summer School of Hotel Administration.....	111	164
	2512	2547
Less Double Registrants.....	588	551
	1924	1996

STUDENTS IN THE GRADUATE SCHOOL

	1936	1937
Registered in the Summer Session.....	634	691
Registered under Personal Direction.....	168	188
	722	802

CLASSIFICATION OF STUDENTS BY PREVIOUS TRAINING

Graduate Degrees.....	212
Bachelors' Degrees.....	867
Undergraduates.....	607
Normal School Graduates.....	65
Others.....	245

PRESIDENT'S REPORT

CLASSIFICATION OF STUDENTS BY DEGREES

	<i>Cornell</i>	<i>Other Institutions</i>	<i>Totals</i>
Doctors' Degrees	3	4	7
Masters' Degrees	33	172	205
Bachelors' Degrees	165	702	867
Undergraduates	313	294	607
	<hr/> 514	<hr/> 1172	<hr/> 1686

CLASSIFICATION OF TEACHERS IN ATTENDANCE

Universities and Colleges	137
Junior Colleges	5
Normal Schools	5
Superintendents	13
Principals	68
Supervisors	6
High Schools	592
Junior High Schools	43
Grade Schools	91
Others (Business Schools, kindergartens, etc.)	4
	<hr/> 964

GEOGRAPHICAL DISTRIBUTION

	<i>1936</i>	<i>1937</i>
New York	1262	1194
Pennsylvania	147	155
New Jersey	79	80
Other Middle Atlantic States	33	37
New England	113	134
South	90	125
South West	17	33
Middle West	119	140
Rocky Mountain States	7	11
Pacific Coast	7	12
Canada	13	30
Foreign Countries	36	45
	<hr/> 1924	<hr/> 1996

LOREN C. PETRY,
Director of the Summer Session.

APPENDIX XV

REPORT OF THE DEAN OF WOMEN

To the President of the University:

SIR: I have the honor to submit to you the following report of the Dean of Women, for the year 1937-38.

HOUSING

The housing situation for women students has again become acute with the increased enrollment in the College of Home Economics. For the year 1937-38 the six dormitories were used with no changes in Head Residents. Several additional rooms were made available at Sage, and the cottage at 308 Wait Avenue, used for graduate women for the past eight years, was again in use for undergraduate women. The cottage at 5 East Avenue was also used and, ten days before the opening of the University, necessary remodeling and furnishing was done at 9 South Avenue and this cottage was opened for undergraduate women. Permission was given by the Administration for women twenty-two years of age or above, holding an undergraduate degree, to live outside the dormitories, and the cottage at 7 Central Avenue was opened for them and for graduate women. The chaperons for the dormitories and cottages were:

Prudence Risley . . . . .	. Mrs. H. F. Russell
Sage Hall. . . . .	. Miss Grace Seely
Balch I. . . . .	. Miss Mary E. Cornell
Balch II. . . . .	. Mrs. Carolyn Powell
Balch III. . . . .	. Mrs. N. Carter Daniel
Balch IV. . . . .	. Mrs. Frank Conger
5 East Ave. . . . .	. Mrs. Cornelia Ehrgott
9 South Ave. . . . .	. Miss Mary Galt
308 Wait Ave. . . . .	. Miss Helen Bush
7 Central Ave. . . . .	. Miss Georgiana VonTornow (Graduates)
613 Thurston Ave. . . . .	. Miss Mary Cameron (Graduates)

Kappa Kappa Gamma opened a new house on its former location on Thurston Avenue, with Mrs. Maude Winger of Warren, Pa., as chaperon. Kappa Alpha Theta built a new house on its lot and opened it about two weeks late. The twenty-five residents were temporarily taken care of in dormitories, a suite at the Home Economics building, and in private homes until the house was open. Mrs. Emily Case returned as chaperon. Alpha Phi remodeled its house during the summer, enlarging and greatly improving it. Mrs. Mary Coles of Nashville came as chaperon. Mrs. Ida Lawler of Greenville, S. C. was the new chaperon at the Chi Omega house. Mrs. Verda Whitney of New York was chaperon at the Kappa Delta house for the year. The chaperons at the remaining sorority houses were the same during the year 1937-38 as during the previous year—Alpha Omicron Pi, Mrs. Myrta Reed; Delta Delta Delta, Mrs. Irene Belding; Delta Gamma, Miss Esther Kopke; Alpha Xi Delta, Miss Natalie Edgar; Pi Beta Phi, Mrs. Leila Mylander; Sigma Delta Tau, Mrs. Helena Abendschein; Alpha Epsilon Phi, Mrs. F. A. Cleveland. Mrs. Carolyn V. Powell who had been Head Resident of Balch Unit II since it opened in 1929, and who had filled the position most acceptably, became seriously ill in the spring and was obliged to leave on this account on May 21. She died at Clifton Springs Sanitarium on July 9.

The following table gives the enrollment of women students by class, by college, and by place of residence.

	1938	1939	1940	1941	Total Under Grads.	Spec.	Grads.	Total
Balch...	124	17	143	31	315	1	4	320
Risley...	1	71	3	117	192	1		193
Sage...	1	68	4	121	194	....	..	194
Sorority...	80	58	99		237		1	238
Room and Board...	4	23	19	16	62	2	1	65
Home.....	39	39	27	38	143	12	26	181
Special Permission...	2			3	5		1	6
Relatives.....	2	3	1	5	11	..		11
Terrace.....		2		15	17		1	18
Sill.....		5	3	10	18	....	..	18
9 South.....				17	17	..		17
7 Central—Grad.....	1	3	1		5	...	4	9
Cottage—Grad.....		1			1	..	7	8
Approv. rooms...	2		1		3	6	46	55
Approv. apts.....	2			...	2	2	29	33
Commuting.....	2	1		1	4	2	3	9
Non-Resident.....	1				1		1	2
Total.....	261	291	301	374	1227	26	124	1377

Enrollment by colleges:

	1938	1939	1940	1941	Total
Home Economics.....	87	96	104	144	431
Agriculture.....	34	30	41	57	162
Arts.....	120	145	150	156	571
Architecture.....	8	5	....	4	17
Medicine.....	1	..	1	...	2
Arts—Chemistry.....			2	1	3
Law.....		7	1	....	8
Hotel.....	5	3	....	6	14
Veterinary.....	3	4	..	..	7
Fine Arts.....	2	1	2	4	9
Engineering.....	1	..	..	2	3
Total.....	261	291	301	374	1227

EMPLOYMENT

The number of women students earning a portion of their college expenses decreased slightly during the past year but continues large enough to make the task of securing employment and supervising the students who are working one of the major departments of the Dean of Women's office. As the following figures will show, approximately a little over one third of the women students were doing some work to help with expenses. Those students who were receiving cash remuneration earned a total of \$2,732.74. Students earning room and board or a portion of room and board earned the equivalent of approximately \$90,000.

<i>Students earning:</i>	<i>Total</i>
Room and Board in private homes.	66
Room and Board in dormitory.	7
By N. Y. A. work.	55
Earning Board or a part of Board:	
In Dormitories,	
In Willard Straight,	
In Home Economics Cafeteria,	
In Sorority houses.	174
Doing miscellaneous part time work (on and off campus).	166
Total.	468

VOCATIONAL INFORMATION

The Federation of Cornell Women's Clubs held its third conference on *Fields of Work for Women* in Willard Straight Hall on Saturday afternoon, March 19. Six alumnae, representing widely different occupations, gave interesting talks and answered questions. During the year a representative from the following fields of work held personal conferences with students: Special Libraries Association, Secretarial work, Teaching in private schools, Fashions. Many individual conferences were held also with the Dean of Women and her Assistants, regarding kinds of occupations, requirements, and possibilities of advancement.

OFFICE STAFF

The staff of the Dean of Women's office consisted of Miss Eleanor Simonds, who completed her eleventh year and has charge of the employment for women students. She also advises with a group of the W. S. G. A. students. A second Assistant was Miss Margaret Thompson, completing her third year. She has charge of the housing for graduate women, checking of records, and registering of social affairs. A new office was constructed for a full time secretary, which position was filled by Mrs. Harriet Berthiaume.

SOCIAL LIFE

The number of social affairs for men and women registered in the office totaled about six hundred and fifty. Three hundred and thirty-four different couples acted as chaperons. Checking with these and notifying dormitories takes a great deal of time, especially on weekends when the number runs from thirty to forty-five affairs. The following figures show the groups from which the chaperons seem to be chosen.

Ithaca:

1. University faculty members of the rank of Assistant Professor or above. 51
2. Instructors, graduate students, administrative staff. 79
3. Ithaca townspeople—salesmen, professional people, clerks, (everything from clerk in liquor store to doctors and lawyers). 90

Out-of-town people:

1. Parents of Cornell students. 33
2. Out-of-town guests whom we never see and usually know little about except approximate age and class in the University in the case of alumni. 81

Total. 334

W. S. G. A.

The Woman's Self Government Association completed its fortieth year of service this year under the able leadership of Miss Janet Dempster. Miss Georgia White who was an undergraduate at Cornell when the W. S. G. A. was organized

and who was Cornell's first Dean of Women was invited to visit the W. S. G. A. and speak at the May mass meeting. Unfortunately ill health prevented her acceptance. The financial arrangement whereby a part of the Recreation Fee paid by each student is allotted to W. S. G. A. for its activities has been of great value and has made possible a much more general participation in organizations. The orientation program sponsored by W. S. G. A. during the first few days of college in the fall has been well planned and executed and is of much value to entering students.

SPECIAL STUDIES

A number of interesting studies pertaining to college life and students has been made, including—occupations of parents of the freshmen, freshmen reporting to the Infirmary during the first semester, students who during the past six years have consulted the special vocational speakers (a check has been made of the present occupations as compared with indicated vocational interests at the time of interview). A study has been continued correlating Mental Ratings according to tests given upon entrance and actual grade performance. This study has included semester comparison for a class through its four years, both individual performance and by deciles and by colleges.

SUMMER SESSION, 1937

Sage Hall and the four units of Balch Residential Halls were used during this session. Also Risley Cottage, 308 Wait Avenue, 5 East Avenue, and six sorority houses. The enrollment of women increased slightly over the previous year. Balch Halls held a reception for Summer Session faculty in Unit 1, plans to hold it in the court having been suddenly changed because of rain. Few "rules and regulations" were needed as the student body with negligible exceptions was cooperative.

R. LOUISE FITCH,
Dean of Women.

APPENDIX XVI

REPORT OF THE DIRECTOR OF ADMISSIONS

To the President of the University:

SIR: I respectfully submit my report on admissions to the undergraduate colleges of the University in September 1937.

TABLE I

This table shows the number who applied and the number of new students admitted to each of the undergraduate colleges. Only those have been counted as applicants who actually filed formal applications for admission as regular students; persons merely indicating intent to enter, whether by letter or by interview, are not included. So-called "special students" are counted separately. Under "admitted" are included those who met all University requirements and the particular requirements of the college concerned and who were consequently notified that they were entitled to matriculate as regular students, whether they afterwards registered or not. (For figures on registration see the Registrar's report.)

A. Applications and admissions from secondary schools:

<i>College</i>	<i>Applied</i>	<i>Admitted</i>
Arts and Sciences		
A.B.	1177	448
B.Chem.	135	85
Agriculture.	669	396
Home Economics.	424	145
Hotel Administration.	155	82
Architecture.	43	20
Engineering.	364	217
	<hr/>	<hr/>
	2967	1393

B. Applications and admissions by transfer from other higher institutions:

<i>College</i>	<i>Applied</i>	<i>Admitted</i>
Arts and Sciences		
A.B.	307	80
B.Chem.	25	7
Agriculture.	193	55
Home Economics.	88	12
Hotel Administration.	57	17
Veterinary	171	13
Architecture.	19	8
Engineering.	78	50
	<hr/>	<hr/>
	938	242

C. Special students, including the two-year Special Courses in Agriculture:

<i>College</i>	<i>Applied</i>	<i>Admitted</i>
Arts and Sciences		
A.B.	11	7
Agriculture.	12	6
2 year Special.	207	131
Home Economics.	6	5
Hotel Administration.	6	2
Engineering.	2	1
Architecture.	1	1
	<hr/>	<hr/>
Grand Total.	245	153
Less "specials"	245	153
	<hr/>	<hr/>

Total "regulars" (for comparison with totals given in previous reports, which excluded "specials"). 3905 1635

The total applications for 1937 show an increase of 615 and the admissions an increase of 114 over those for 1936.

TABLE II

Students admitted from secondary schools (see I, A) divide as follows according to the method by which each one offered the greater part of his entrance credit:

Certificate.	448
Regents.	922
Examination.	2
College Board.	21
	<hr/>

1393

Many students present entrance credit by more than one of the four methods. The following shows the number offering credit by any one of the four methods:

Certificate.....	1126
Regents.....	966
Examination.....	100
College Board.....	47

Three hundred and four schools used the certificate privilege in 1937.

TABLE III
ENTRANCE EXAMINATIONS

Total new applicants trying the September entrance examinations.....	129
Applicants who completed entrance requirements by examination.....	79
Applicants trying examinations but failing to meet requirements thereby..	21

The proportion of passing grades (60 or above) for all subjects to the total number of grades reported was, in 1937, 58%.

The number of applicants was the largest since 1931. Studies that have been made of the effect of past economic depressions on college enrollment in the United States show a lag of about two years in the effect at either end of the depression. In other words, college enrollments do not begin to drop until about two years after a depression sets in, and do not begin to rise again until about two years after recovery starts. The reason for this lag is probably the existence of reserve funds which families have set aside for the education of their children, and which are not consumed until a year or two after the beginning of a depression, and, when depleted, are not built up again until a year or two after the end of it. Whatever the cause, the effect noted in the past is confirmed by the Cornell figures; for the two largest application lists Cornell has ever had were in 1931 (about two years after the beginning of the depression) and 1937 (about two years after apparent signs of recovery).

In the past year a few alterations have been made in the formal "unit" entrance requirements. These changes have come about rather in response to changes in the secondary schools than from any abstract theories of collegiate education. The University Faculty, for example, on the motion of its Committee on Entrance Credits, installed General Science, 1 unit, as a member in good and respectable standing on the Cornell list of Entrance Subjects and released it from its hitherto disreputable lodgment under "Number 19." Then the "time-requirement" for certified entrance credit in Drawing and Manual Training was brought into accord with the time-requirement for other laboratory courses so that a discriminatory tariff no longer exists against those two subjects. The College of Engineering made significant modifications of its entrance requirements by (1) reducing the specification in Foreign Language to two units and permitting History, two units, to be offered as an alternative; (2) introducing the new requirement of Physics or Chemistry for entrance; and (3) allowing the offering of Advanced Algebra as an alternative to Solid Geometry, hitherto prescribed. The College of Architecture introduced a similar flexibility (1) by agreeing to accept either three units of History or three units of Science in place of the three units in one Foreign Language (or two units in each of two Foreign Languages) hitherto prescribed, and (2) by allowing candidates to offer any two half-units from Advanced Algebra, Solid Geometry, and Trigonometry, instead of prescribing Solid Geometry and Trigonometry.

All of these changes are in the direction of greater flexibility in the pattern of entrance subjects. It is certainly possible to go still further in that direction without the slightest lowering of standards or impairment of quality. The quality of a candidate for the College of Engineering, for example, is not invariably determined by his having studied two years of Foreign Language instead of two years of History in high school. With the increasing reliance on "selection" by "committees on admissions" representing the several colleges of the University, qualita-

tive standards may be safeguarded by other means than the prescription of a rigid pattern of subjects and units. It was in recognition of this principle that the College of Arts and Sciences, five years ago, allowed for certain alternatives, to be chosen from Mathematics, Science, and History to the two units formerly prescribed in a second Foreign Language, and that the University Faculty, at about the same time, provided for the admission by the several undergraduate colleges of "students whose programs of study in school have not in every respect coincided with the basic subject-requirements for entrance, provided such students otherwise show promise of superior scholastic aptitude, character, seriousness of purpose, and fitness for the work they propose to undertake."

E. F. BRADFORD,
Director of Admissions.

APPENDIX XVII

REPORT OF THE REGISTRAR

To the President of the University:

SIR: I have the honor to submit herewith my eighth annual report as Registrar of the University. The report covers the academic year 1937-38 including the Summer Session of 1937 and, for convenience, work between the end of the second term 1936-37 and July 1, 1937 but excluding work between the end of the second term 1937-38 and July 1, 1938.

TABLE I

THE YEAR

	<i>Days in Session</i>	<i>Sun- days</i>	<i>Holi- days</i>	<i>Vaca- tion</i>	<i>Total</i>
Summer Vacation, June 22-July 4				13	13
Summer Session, July 5-August 13.	35	5			40
Summer Vacation, August 14-Sept. 26.				44	44
First Term, Sept. 27-Feb. 9.	99½	15			114½
Inauguration of President Day, Oct. 8, 9.			2		2
Thanksgiving Vacation, Nov. 25-Nov. 28.				4	4
Christmas Vacation, Dec. 18-Jan. 2.				15½	15½
Midyear Recess, Feb. 10.				1	1
Spring Vacation, April 2-April 10.				8½	8½
Spring Day, May 21			1		1
Second Term, Feb. 11-June 20.	103½	17			120½

TABLE II
ATTENDANCE FOR THE YEAR 1937-38

		Graduates	Class 1942	Class 1941	Class 1940	Class 1939	Class 1938	2 Yr. Spec. Agr.	Special	Total	Duplicates	Net Total
Agriculture	Men.....		2	343	256	235	231	232	34	1333		
	Women.....		1	56	42	36	34	2	9	180		
	Total.....		3	399	298	271	265	234	43	1513		
Architecture	Men.....		15	15	20	22	37		2	111		
	Women.....		5	2	5	4	2			18		
	Total.....		20	17	25	26	39		2	129		
Arts	Men.....		1	385	367	315	300		8	1376		
	Women.....		1	161	156	145	135		6	604		
	Total.....		2	546	523	460	435		14	1980		
Engineering	Men.....		4	349	280	200	186		1	1020		
	Women.....			4		1				5		
	Total.....		4	353	280	201	186		1	1025		
Graduates	Men.....	793								793		
	Women.....	162								162		
	Total.....	955								955		
Home Economics	Men.....			143	104	94	90		18	449		
	Women.....			143	104	94	90		18	449		
	Total.....											
Law	Men.....				41	51	52			144		
	Women.....				1	4				5		
	Total.....				42	55	52			149		
Medicine	Men.....			68	70	58	58		5	259		
	Women.....			7	8	5	8		2	30		
	Total.....			75	78	63	66		7	289		
Veterinary	Men.....			41	39	37	30			147		
	Women.....			1	2	3	1			7		
	Total.....			42	41	40	31			154		
Hotel	Men.....		1	77	70	48	54		5	255		
	Women.....			6	1	3	6			16		
	Total.....		1	83	71	51	60		5	271		
Total	Men.....	793	23	1278	1143	966	948	232	55	5438	224	5214
	Women.....	162	7	380	319	295	276	2	35	1476	6	1470
	Total.....	955	30	1658	1462	1261	1224	234	90	6914	230	6684

DISTRIBUTION OF DUPLICATES*

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Agriculture—Hotel.....	1		1
Architecture—Engineering.....	2		2
Architecture—Hotel.....	1		1
Arts—Agriculture.....	2	1	3
Arts—Architecture.....	2		2
Arts—Engineering.....	172	1	173
Arts—Law.....	1		1
Arts—Medicine.....	2		2
Engineering—Hotel.....	1		1
Graduate School—Agriculture.....	6	1	7
Graduate School—Architecture.....	2		2
Graduate School—Arts.....	12	2	14
Graduate School—Engineering.....	1		1
Graduate School—Graduate School.....	56	16	72
Graduate School—Home Economics.....		1	1
Graduate School—Medicine.....	2		2
Graduate School—Summer Session.....	383	250	633
Graduate School—Veterinary.....	1		1
Graduate School in Summer Session—Graduate School (Personal Direction).....	6	1	7
Graduate School (Personal Direction)—Graduate School.....	57	3	60
Graduate School (Personal Direction)—Summer Session.....	1		1
Graduate School (Personal Direction)—Veterinary.....	1		1
Summer Session—Agriculture.....	36	7	43
Summer Session—Architecture.....	18		18
Summer Session—Arts.....	81	28	109
Summer Session—Engineering.....	110		110
Summer Session—Home Economics.....		7	7
Summer Session—Hotel.....	6		6
Summer Session—Law.....		1	1
Total.....	963	319	1282

*To accompany the table showing attendance for the year 1937-38.

TABLE III
ATTENDANCE AT SUMMER SESSIONS, ETC., 1937-1938

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Graduate, Personal Direction.....	156	39	195
Graduate, 1937 Summer Session.....	381	260	641
Summer Session, 1937.....	1139	857	1996
Short Winter Course, Agriculture, 1937-1938.....	91	5	96
Extramural Course.....	11	88	99

TABLE IV
MATRICULATES

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Graduate	361	159	520
Advanced Standing	236	75	311
First Year	1101	372	1473
Special Students	18	10	28
2 Year Special Agriculture	125	2	127
Medicine (New York City)	50	7	57
Summer Session 1937	252	317	569
Summer Graduate (Personal Direction)	2	1	3
Duplicates	171	71	242
Net Totals	1974	872	2846

TABLE V
DEGREES

September 1937; February 1938; June 1938

	<i>Men</i>	<i>Women</i>	<i>Total</i>
A.B.	249	113	362
B.Chem.	21		21
B.S. (a)*	207	30	237
B.S. (b)		89	89
B.S. (c)	39	4	43
D.V.M.	30	1	31
B.Arch.	16		16
B. Fine Arts		2	2
B.L.A.	6		6
C.E.	22		22
M.E.	46		46
E.E.	19		19
B.S. in A.E.	55		55
Chem. Engr.	14		14
A.M.	39	26	65
A.M. in Education	7		7
M.S.	54	22	76
M.S. in Agriculture	14	1	15
M.S. in Education	26	7	33
M.S. in Engineering	11		11
M. in Forestry	4		4
M. in Chemistry	2		2
M.C.E.	16		16
M.M.E.	4		4
M.E.E.	1		1
M.F.A.		1	1
M.Arch.	1		1
M.L.A.	1		1
LL.B.	48		48
LL.M.	1		1
Ph.D.	114	17	131
M.D.	60	6	66
Total	1127	319	1446
War Alumnus	2		2

*a, means Agriculture; b, Home Economics; c, Hotel Administration

REGISTRAR'S REPORT

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TABLE VI

TABLE SHOWING BY YEARS THE NUMBER AND KINDS OF DEGREES GRANTED BY
CORNELL UNIVERSITY
1934-1938

FIRST DEGREES

	Before 1934	1934	1935	1936	1937	1938	Total
Bachelors of Arts.	9197	417	378	388	347	362	11089
Bachelors of Chemistry.	635	12	30	24	23	21	745
Bachelors of Literature.	52	...	...	...	...	...	52
Bachelors of Philosophy.	484	...	...	...	...	...	484
Bachelors of Letters.	264	...	...	...	...	...	264
Bachelors of Science.	3712	...	...	...	...	...	3712
Bachelors of Sci. in Chemistry.	9	...	...	...	...	...	9
Bachelors of Sci. in Nat. Hist.	4	...	...	...	...	...	4
Bachelors of Sci. in Agriculture.	357	...	...	...	...	...	357
Bachelors of Sci. in Architecture.	123	...	...	...	...	...	123
Bachelors of Architecture.	627	12	20	25	19	16	719
Bachelors of Agriculture.	30	...	...	...	...	...	30
Bachelors of the Sci. of Agr.	127	...	...	...	...	...	127
Bachelors of Veterinary Science.	4	...	...	...	...	...	4
Doctors of Veterinary Medicine.	823	44	56	23	35	31	1012
Graduate in Pharmacy.	1	...	...	...	...	...	1
Pharmaceutical Chemists.	2	...	...	...	...	...	2
Bachelors of Civil Engineering.	161	...	...	...	...	...	161
Civil Engineers.	2758	64	48	44	30	22	2966
Bachelors of Mech. Engineering.	57	...	...	...	...	...	57
Mechanical Engineers.	5933	58	56	56	41	46	6190
Bachelors of Laws.	2090	43	35	51	42	48	2309
Doctors of Medicine.	1755	56	64	64	71	66	2076
Forest Engineers.	17	...	...	...	...	...	17
Bachelors of Fine Arts.	15	4	3	2	1	2	27
Electrical Engineers.	626	28	33	30	21	19	757
Bachelors of Landscape Architecture.	53	3	1	4	5	6	72
Bachelors of Science (College of Agriculture)	1234	179	202	202	177	237	2231
Bachelors of Science (College of Home Economics).	621	90	109	111	106	89	1126
Bachelors of Science (Hotel Management)	191	40	35	29	30	43	368
Chemical Engineers.	3	5	1	7	7	14	37
Bachelors of Science in Admin. Engineering.	26	43	42	53	55	55	219
Total First Degrees.	31965	1081	1114	1102	1008	1077	37347
War Alumni.	309	...	...	...	1	2	312

ADVANCED DEGREES

	Before 1934	1934	1935	1936	1937	1938	Total
Architects.....	1	...	...	...	...	...	1
Civil Engineers.....	20	...	...	...	...	...	20
Mechanical Engineers.....	1	...	...	...	...	...	1
Masters of Arts.....	1414	65	48	72	74	65	1738
Masters of Philosophy.....	10	...	...	...	...	...	10
Masters of Letters.....	9	...	...	...	...	...	9
Masters of Science.....	784	54	49	70	82	76	1115
Masters of Sci. in Agriculture.....	349	6	9	13	11	15	403
Masters of Sci. in Architecture.....	19	...	...	...	...	...	19
Masters of Civil Engineering.....	209	7	11	16	16	16	275
Masters of Mechanical Eng.....	255	4	2	3	2	4	270
Masters of Electrical Eng.....	43	7	...	...	2	1	53
Masters of Laws.....	61	...	...	1	...	1	63
Masters of Landscape Design.....	21	...	...	...	...	...	21
Masters in Forestry.....	74	3	1	1	3	4	86
Masters of Architecture.....	35	1	1	3	...	1	41
Masters of Landscape Architecture.....	6	...	...	...	...	1	7
Masters of Fine Arts.....	4	...	...	1	1	1	7
Masters of Chemistry.....	12	3	...	3	3	2	23
Masters of Arts in Educ.....	22	5	10	10	18	7	72
Masters of Science in Educ.....	19	9	5	13	24	33	103
Doctors of Veterinary Medicine.....	1	...	...	...	...	...	1
Doctors of Science.....	20	...	...	...	...	...	20
Doctors of Philosophy.....	1866	135	136	124	124	131	2516
Doctors of Laws (Honorary).....	2	...	...	...	...	...	2
Doctors of the Science of Law.....	2	4	...	...	1	...	7
Masters of Science in Engineering.....	...	...	7	7	10	11	35
Total Advanced Degrees.....	5259	303	279	337	371	369	6918
Grand Total.....	37224	1384	1393	1439	1379	1446	44265

For previous years see President's Report for 1932-33.

TABLE VII

TABLE SHOWING THE NUMBER OF STUDENTS IN EACH COURSE SINCE 1932-33

	1933-34	1934-35	1935-36	1936-37	1937-38
Agriculture.....	1064	1172	1257	1358	1513
Architecture.....	162	161	151	135	149
Arts.....	1894	1823	1825	1883	1980
Engineering.....	860	827	812	938	1025
Graduates.....	791	753	816	935	955
Home Economics.....	634	648	441	417	449
Hotel.....	...	...	209	254	271
Law.....	143	144	162	156	149
Medicine.....	284	288	290	299	289
Veterinary.....	179	157	131	151	154
Total excluding Duplicates.....	5947	5910	6019	6341	6684
Extramural Course.....	...	...	165	111	99
Graduate Work in Summer.....	595	647	723	828	836
Summer School in Agriculture.....	759	916	...	...	...
Summer Session.....	959	1067	1774	1924	1996
Winter Agriculture.....	123	115	128	123	96

TABLE VIII

REGIONAL DISTRIBUTION OF STUDENTS AT CORNELL UNIVERSITY
COMPUTED BY FIVE-YEAR PERIODS

<i>Agriculture</i>	1910		1915		1920		1925		1930		1935	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Middle States	422	78.9	1349	90.6	960	88.3	696	88.3	657	89.9	1257	95.9
New York State	261	67.5	1160	77.9	820	75.4	631	80.0	615	84.1	1225	93.4
New England States North Central States	22	4.1	26	1.7	26	2.4	18	2.3	17	2.3	20	1.6
Southern States	27	5.1	58	3.9	51	4.7	34	4.3	29	4.0	10	.8
Western States	12	2.2	21	1.4	23	2.1	4	.5	6	.8	7	.5
Foreign	12	2.2	7	.5	.....	.....	3	.4	.....	.....	.....	.....
Foreign	40	7.5	29	1.9	28	2.5	33	4.2	22	.3	17	1.2
Total	535		1490		1088		788		731		1311	
<i>Architecture</i>												
Middle States	75	52.8	89	58.5	68	65.4	102	62.2	108	62.4	109	69.0
New York State	56	39.4	58	38.1	53	50.9	71	43.3	73	42.2	77	48.7
New England States North Central States	7	4.9	7	4.6	3	3.0	15	9.2	11	6.4	7	4.4
Southern States	45	31.8	41	2.7	23	22.1	31	18.9	36	20.8	30	18.0
Western States	7	4.9	3	2.0	6	5.7	10	6.1	8	4.6	6	4.3
Foreign	4	2.8	5	3.3	2	2.0	3	1.8	4	2.3	0	0
Foreign	4	2.8	7	4.6	2	2.0	3	1.8	6	3.5	6	4.3
Total	142		152		104		164		173		158	
<i>Arts and Sciences</i>												
Middle States	753	76.4	1042	78.5	1401	81.3	1657	85.7	1640	86.0	1533	86.3
New York State	600	60.9	798	60.1	1063	61.7	1344	69.5	1333	69.9	1243	61.0
New England States North Central States	35	3.6	49	3.7	56	3.2	83	4.3	77	4.0	75	4.2
Southern States	138	14.0	162	12.2	164	9.5	133	6.9	138	7.2	135	7.6
Western States	25	2.6	39	2.9	56	2.2	29	1.5	28	1.5	21	1.2
Foreign	13	1.3	15	1.2	20	1.2	8	.4	12	.7	2	.1
Foreign	21	2.1	20	1.5	26	1.5	23	1.2	11	.6	10	.6
Total	985		1327		1723		1933		1906		1776	
<i>Engineering</i>												
Middle States	1181	67.0	898	66.6	1086	67.4	805	71.1	725	72.5	615	73.7
New York State	799	43.7	591	43.8	734	45.5	523	46.2	490	49.0	450	53.9
New England States North Central States	87	5.1	71	5.3	70	4.4	57	5.0	46	4.6	35	4.3
Southern States	287	16.4	213	15.8	236	14.3	161	14.2	155	15.5	132	15.8
Western States	67	3.8	65	4.8	83	5.3	45	4.0	37	3.7	22	2.3
Foreign	39	2.2	16	1.2	19	1.2	10	.9	9	.9	2	.3
Foreign	97	5.5	85	6.3	119	7.4	55	4.8	28	2.8	29	3.6
Total	1758		1348		1613		1133		1000		835	
<i>Home Economics</i>												
Middle States	0	0	0	0	0	0	352	90.7	387	97.7	431	94.6
New York State . . . . .	.....	.....	0	0	.....	.....	316	81.5	364	91.9	410	90.0
New England States North Central States . . . . .	.....	.....	0	0	.....	.....	8	2.1	2	.5	13	2.8
Southern States . . . . .	.....	.....	.....	.....	.....	.....	13	3.5	4	1.0	7	1.4
Western States . . . . .	.....	.....	.....	.....	.....	.....	6	1.5	1	.3	3	.6
Foreign . . . . .	.....	.....	.....	.....	.....	.....	3	.7	0	0	.....	.....
Foreign . . . . .	.....	.....	.....	.....	.....	.....	6	1.5	2	.5	2	.6
Total . . . . .	.....	.....	.....	.....	.....	.....	388		396		456	
<i>Hotel</i>												
Middle States . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	115	64.2	135	77.1
New York State . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	82	45.8	107	62.4
New England States North Central States . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	17	9.5	10	5.6
Southern States . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	36	20.1	20	10.9
Western States . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	5	2.8	4	3.2
Foreign . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	1	.6	0	0
Foreign . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	5	2.8	4	3.2
Total . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	179		173	

TABLE VIII (Concluded)

Veterinary	1910		1915		1920		1925		1930		1935	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Middle States	91	90.1	132	89.8	69	95.4	84	93.3	137	87.2	129	94.4
New York State	91	90.1	128	87.1	65	89.1	79	87.7	131	83.4	118	86.1
New England States	3	3.0	5	3.4	0	0	1	1.1	13	8.3	3	2.3
North Central States	1	1.0	7	4.7	0	0	5	5.6	1	.6	....	....
Southern States	2	2.0	2	1.4	1	1.3	0	0	2	1.3	1	.9
Western States	0	0	1	.7	0	0	0	0	4	2.6	....	....
Foreign	4	3.9	0	0	3	4.3	0	0	0	0	4	2.4
Total	101		147		73		90		157		137	
<i>University</i>												
Middle States	2522	71.6	3510	78.6	3584	77.8	3696	82.1	3779	83.1	4209	86.8
New York State	1877	53.3	2735	61.2	2735	59.4	2964	65.9	3088	68.0	3630	74.5
New England States	154	4.4	158	3.5	155	3.4	182	4.1	183	3.9	163	3.4
North Central States	498	14.2	481	11.4	474	10.3	377	8.4	399	9.2	334	6.9
Southern States	113	3.2	130	2.9	169	3.7	94	2.1	87	1.8	64	1.4
Western States	68	1.9	44	1.0	41	.9	27	.6	30	.6	4	.1
Foreign	166	4.7	141	3.1	178	3.9	120	2.7	74	1.6	72	1.4
Total	3521		4464		4601		4496		4542		4846	

E. F. BRADFORD,
Registrar.

APPENDIX XVIII

REPORT OF THE UNIVERSITY PLACEMENT BUREAU

To the President of the University:

SIR: On behalf of the University Committee on Placement, I have the honor to submit the annual report of the University Placement Bureau for the year 1937-38.

The year ending June 30, 1938, has been disappointing in the field of employment. After a satisfactory year in 1936-37, when we were able to report calls for seniors at pre-depression levels, employment has again contracted so that it compares with that of 1934 or 1935. The present decline became noticeable in our alumni employment work early in October, 1937 when jobs fell off rather sharply, to remain at a low level ever since. Actual senior placement normally concentrated in the spring also reflects present conditions. A year ago, by June 20, sixty-seven per cent of the members of the senior class had reported themselves as employed or continuing their studies. The corresponding figure for this year is fifty-nine per cent. Fewer companies visited the campus; fewer offers were made by those which did; visits were cancelled and offers withdrawn or postponed because of continued reverses.

WORK WITH SENIORS

Table I shows the employment status of the Class of 1938, as of July 1. Only students who have so reported to the Bureau, or to their college offices, are included as employed or pursuing graduate study. It was still too early, on July 1, to have heard from most of those who began their search for work after leaving the University. Those who had definite offers which had not been reported as accepted have not been included as employed.

Still experimenting in an attempt to discover the best method of providing seniors in the College of Arts and Sciences with vocational information, the Bureau departed from its former practice of inviting speakers to the campus to lecture on their special fields of work. It was felt that although the lectures on special fields

were of interest to a limited number of students they failed to stimulate any general curiosity regarding the more fundamental problems of selecting an occupation and finding work. Fifteen seniors were invited to attend a series of weekly meetings dealing with various phases of their employment problems. Topics included "Self-Analysis as Preparation for Vocational Choice", "Vocational Interests", "Typical Large Company Organization", "Types of Work Open to an Arts Man", "Letter Writing and Preparation of Application Forms", "Report on Jobs and Salaries of the Class of 1937" (data obtained by means of a survey conducted by the Bureau). This series of meetings, conducted by the Director of the Bureau, Mr. H. H. Williams, was followed by two lectures by Mr. Howard L. Davis, Director of Technical Employment and Training, New York Telephone Company, held jointly by the Bureau and the College of Engineering. The first of Mr. Davis' talks was on "Interviewing" and the second was a series of three "Demonstration Interviews" during which three engineering seniors were interviewed before the audience. Each weekly meeting of the series included an outside assignment, prepared by the participating students who were thus introduced to a fairly broad study of the problems under consideration.

These meetings proved more successful than any previous series. The attendance was almost one hundred per cent at each session and comments by those who attended gave evidence that the plan was well worth further development. It is the intention of the Director to repeat the meetings for members of the Class of 1938-39, carrying as many groups of fifteen or twenty as may be necessary to satisfy the demand.

TABLE I
EMPLOYMENT OF 1938 GRADUATES
PLACEMENTS REPORTED TO THE BUREAU
AND
THE SEVERAL COLLEGES AND DEPARTMENTS*

College	Positions Reported June 30	Con- tinuing Studies	Total Class	Percentage Unemployed or not Reporting			
				1938	1937	1936	1935
Agriculture:							
Men.....	96	24	180	33	24	38	49
Women..	5	0	28	82	86	79	48
Architecture:	9	3	24	50	95	50	81
Arts and Sciences:							
Men.....	16	118	211	37	33		
Women..	5	36	100	59	61		
B. Chems..	3	9	17	29	10	24	57
Engineering:							
B.S. in A.E..	26	1	53	49	18	40	35
C.E.....	4	1	20	75	33	40	80
E.E.....	9	1	18	44	19	25	38
M.E.....	19	3	43	49	5	24	54
Chem. Engr..	12	0	13	8	14	0	0
Home Economics:	41	5	77	40	30	37	58
Hotel							
Management..	31	0	34	9	4	16	24
Law* See below							
Veterinary... .	25	1	31	23	28	30	24
Total.....	298	202	849	41%	33%		

*The data of the *Law School* graduates, class of 1938, do not readily lend themselves to the classifications of this table. The Law School reports that of the 45 graduating, 24 have been placed and none will continue in graduate work. However, of the 21 remaining only 3 are classified as definitely unemployed. The re-

maining 18 have offers pending or under consideration, plan to open their own offices, or expect to enter some specialized field for which they are to prepare in one way or another.

ALUMNI PLACEMENT WORK

The introductory paragraph of this report indicates the general trend of alumni placement during the year. Eighteen issues of the Job Bulletin, almost seven thousand pieces, have been mailed. In addition some twenty-one hundred placement letters have been written. This will indicate that the alumni placement work is much more active than actual placement figures show. The relatively low ratio of placements to job calls is due to several things: geographical separation of candidates and jobs, the time factor, unattractiveness of jobs, or lack of qualified candidates.

TABLE II
ALUMNI REGISTRATION

	1938	1937	1936
Actively interested in new positions.	370	481	332
Satisfactorily employed since registering.	1077	869	755
Records and references of former seniors.	854	608	....
Total registrations on file.	2301	1959	

TABLE III
ALUMNI PLACEMENT

	1938	1937	1936
Alumni placed in permanent positions.	15	19	16
Company calls for alumni.	211	260	184

The University, through the budget of the Placement Bureau, contributes substantially toward the work of the Employment Service of the Cornell Club of New York. This service is ably managed by Mr. P. O. Reyneau, '13. It is on a full time basis, concentrating on the placement of Cornell alumni in the metropolitan area. At present Mr. Reyneau's work suffers from insufficient financial support. No secretarial assistance is available to him, with the result that it is impossible to maintain files properly, or to handle efficiently the routine work of the office, or to make the necessary personal visits and contacts. Additional financial support is necessary for the continued success of this important branch of our Alumni Placement work.

Mr. Reyneau reports as follows concerning the work of his office in the past year:

TABLE IV
EMPLOYMENT SERVICE OF THE CORNELL CLUB OF NEW YORK

	1938	1937
Number of placements (approximately).	60	90
Number of calls for men (approximately).	240	350
Number of active registrants.	480	440
Number of inactive registrants.	1170	950

In addition to the New York Club, many others have supported the placement work by appointing local "placement secretaries". These men, who have volunteered to serve as "clearing houses" for their territories, have been invaluable to the Ithaca office in their readiness to carry through any task needing their aid. They have given publicity to the Bureau, interviewed Cornellians in search of work, and called upon prospective employers. The Bureau is indebted to these men for their help. The following is a list of those who have cooperated with the Bureau in this way:

Mr. I. R. Asen.....	Cornell Club of Essex County, N. J.
Mr. Chas. A. Carpenter.....	Cornell Club of Western Pennsylvania
Mr. Chas. L. Munroe.....	Cornell Club of Western Pennsylvania
Mr. Thomas Dransfield, III.....	Cornell Club of Minneapolis, Minn.
Mr. Edmund H. Eitel.....	Cornell Club of Chicago, Ill.
Mr. John Holt.....	Cornell Club of Cleveland, Ohio
Mr. Herbert R. Johnston.....	Cornell Club of Buffalo, N. Y.
Mr. Neil M. Willard.....	Cornell Club of Buffalo, N. Y.
Mr. Norman D. Kenney.....	Cornell Club of Maryland
Mr. Harold Merrill.....	Cornell Club of Washington, D. C.
Mr. Francis A. Nicolls.....	Cornell Club of Boston, Mass.
Mr. Robert B. Patch.....	Cornell Club of Philadelphia, Pa.
Mr. Herbert Snyder.....	Cornell Club of Cincinnati, Ohio
Mr. John W. Way.....	Cornell Club of Binghamton, N. Y.
Mr. George A. West.....	Cornell Club of Rochester, N. Y.

PART-TIME AND SUMMER WORK

The tables below indicate the Bureau's activity in the field of summer and part-time employment. As might be expected, openings in industrial and commercial organizations for undergraduates wanting summer employment have been very scarce. It should be noted that all calls for the services of students during the summer have been unsolicited. The Bureau, due to its limited personnel, has not been able to be at all active in search of summer work for undergraduates.

TABLE V
SUMMER PLACEMENT DATA

	1938	1937	1936
Registrations:			
for camp work.....	132	92	121
for other work.....	212	187	227
Placements:	14	18	26
Calls:			
for camp.....	20	25	15
for other work (except sales)..	12	42	22
for sales work.....	11	11	14

TEMPORARY PLACEMENT

Students placed on part-time jobs.....	12
Non-Cornellians (grad. wives, etc., available for work on campus) placed in temporary work.....	8
Local Cornell graduates placed in temporary work.....	4
Total temporary placements.....	24

In November, 1937, the University Committee on Placement recommended to the President that on July 1, 1938, the undergraduate part-time employment service for men located in Barnes Hall and under the administrative direction of the Staff of the C.U.R.W., be brought under and made an integral part of the University Placement Bureau, to be operated under the Bureau's Director. There are a number of good reasons for this recommendation looking toward a more unified and effective undergraduate placement program for men. The Committee's recommendation was approved by the President and Board of Trustees with the result that the support of the part-time employment service is to be a part of the budget of the University Placement Bureau, and general supervision of that service is to be within the province of the University Committee on Placement. For the year 1938 the office is to remain in Barnes Hall.

N. Y. A. STUDENT-AID PROGRAM

The N. Y. A. Student-Aid Program has continued this year on a curtailed basis. Funds allotted to the University by the National Youth Administration

for the employment of needy students were about one half the amount available in 1936-37, although the quota of students was two-thirds of previous quotas. Over four hundred and fifty students were selected and placed in some useful occupation in and about the University, each earning an average of approximately \$15.00 a month. A record of the extent of employment under the N.Y.A. Program follows:

TABLE VI
SUMMARY OF MONTHLY N.Y.A. PAYROLLS
1937-1938

<i>Month</i>	<i>No. of Students</i>		<i>Average Earned per Student</i>
	<i>Aided</i>	<i>Unaided</i>	
Oct..	410		\$13.04
Nov..	424		14.35
Dec..	417		14.59
Jan..	431		14.49
Feb..	445		14.48
Mar..	468		14.60
Apr..	455		14.22
May	449		15.11
June.	412		14.43
Total payments to undergraduates.			\$55,973.61
Total payments to graduates.			2,183.24
Grand Total of Payments.			\$56,156.85

A detailed and comprehensive report of the N.Y.A. program at Cornell for the year 1936-37 was issued by the Placement Bureau. Copies were sent to all department chairmen, deans, administrative officers, and others requesting them. The report was well received. Another will shortly be issued, covering the year 1937-38.

OFFICE ADMINISTRATION

The Placement Bureau's work draws a large number of undergraduates to its offices, as well as receiving frequent calls from alumni and visiting employers. The number of persons entering the office runs from a low of about twenty to a high of over three hundred in a day. To handle this large number of callers effectively and still permit the other work of the Bureau to progress requires larger and more appropriately arranged quarters than the present office space. For, in addition to the three full-time workers who occupy the twelve by nineteen space, with their office equipment, there are often two part-time clerical workers at the machines or files. Confusion and inefficiency must and do result. This need for additional space, at present very essential, will become imperative within the next year, due to the contemplated expansion of the Bureau's work with undergraduates.

Equally pressing is the need for additional stenographic assistance. Both the senior and alumni placement work require a greater amount of correspondence than is possible at present. Existing connections must be constantly nurtured to be useful, and new outlets for our graduates must be found. This, experience at Cornell and elsewhere has shown, is best achieved by continued publicity and personal visits by those connected with the work, in addition to the regular and extensive correspondence. At present it is not possible to follow-up properly the many calls for seniors and alumni which come to the Bureau.

All things considered, the Bureau has operated well and effectively, due to the conscientious and intelligent efforts of its Director and to the sincere cooperation of his two assistants. Under favorable conditions, the Bureau is equipped in experience, organization, and intra-university connections to increase the effectiveness of its work in occupational guidance and placement.

F. S. FREEMAN, Chairman,
University Committee on Placement.

APPENDIX XIX

REPORT OF THE DIRECTOR OF PHYSICAL
EDUCATION AND ATHLETICS

To the President of the University:

SIR: It is again with the usual full measure of pleasure that we make the annual report of this department, which is now completing its third year as an integral part of the University organization. This department has now been fully coordinated with all other operating departments of the University and the internal organization and workings are now proceeding on an efficient basis in the best interests of the University.

I. DIVISION OF PHYSICAL EDUCATION

This division is of necessity the weakest in the department. Practically the entire scope of activities included herein involve women's physical education. The men's program consists only of certain lecture courses and such a corrective exercise program as is necessary. The women are subjected to antiquated and outgrown equipment, and wherever and whenever possible avail themselves of the men's facilities, which, it must be added, are an improvement only in a matter of degree. It appears that any further development in any phase of this program, either for men or women, is practically out of the question until such a time as facilities appropriate to this University are provided.

2. INTRAMURAL SPORTS

In line with the present trend in physical education, the development of intramural sports is increasing here, just as elsewhere, in leaps and bounds. A program is now in operation which carries on competition in some twenty-six different sports and recreational activities, with provision being made for practically each and every type of individual. Intense interest is being exhibited in all sports, particularly in view of there having been established leagues in each sport with first-class competition resulting.

Concerted efforts have been made to interest that large undergraduate group composed of non-fraternity men, but results have been only moderately successful. Continual demands are made not only by undergraduates, but by graduate students and faculty groups who desire recreation. Each successive season brings out more forcibly, with this increased participation, that provision cannot be made for all those taking part. Again, it is evident that facilities are inadequate.

With the Drill Hall available to this department for only a few hours a day, and with the Old Armory long outgrown, it can readily be seen that this problem is greatly intensified during the winter months.

In the spring and fall the play fields are now used to the fullest extent and the need for additional fields becomes increasingly evident.

Financially, both this division and that of physical education are dependent entirely on fees and University appropriations. Even with the ordinary program, equipment, and facilities as are now available, the income derived from student fees is inadequate to meet this and an annual grant from the University is necessitated.

The personnel of the above two divisions has proven to be competent. Their work is of high caliber and the individuals leave little to be desired in the development of men and women in the proper channels. However, it still must be recognized that in many instances the staff should be enlarged to provide the personal and individual instruction that is desired.

3. ATHLETIC DIVISION

It is in this division that the most progress has been made and best results shown. With improved facilities, increased successes in each of the sports, and better instruction by more competent coaches, participation has increased to quite a degree. In this regard, it is interesting to note that, contrary to public opinion, records show that the total registration of individuals participating in intercollegiate sports is approximately the same as for those participating in the intramural program.

The financial picture is improving. For the second successive year a profit will be shown in this division. This year it will be in the amount slightly in excess of \$40,000. This amount will be devoted to decreasing an indebtedness to the University that has been built up over previous years. It is felt with continued football success that this indebtedness can be reduced regularly and in time eliminated. Again is noted the paradox that future development, and financial self-sufficiency in this phase of an educational program must depend on the aforementioned football fortunes, naturally resulting in undue emphasis on that sport by public and administration alike. This is certainly not a desirable situation.

A long range program of putting the entire plant into first-class and efficient condition is continuing to make progress. Within the next two years this program will be very nearly completed and maximum use of all facilities available will be had.

Cornell's intercollegiate relations continue to be with first-class institutions, and the best in competition is had. Results in this regard are satisfactory.

With all of these developments it has been pleasing to find the faculty taking a more sincere interest in the work of this department and cooperating increasingly with it. However, the full potentialities of this association have not yet been realized. There is still often an unnecessary amount of red tape to be encountered in carrying on certain parts of our program and there is at times apparent misunderstanding as to the aims, ideals, and methods of procedure of this administration. Both groups should, and will, make an effort to bring about closer accord with each other and to develop full understanding. This development would certainly be in the best interests of the University as a whole.

JAMES LYNNAH,
Director of Physical Education and Athletics.

APPENDIX XX

REPORT OF THE DEPARTMENT
OF HYGIENE AND PREVENTIVE MEDICINE

To the President of the University:

SIR: I have the honor to submit herewith a report of the Department of Hygiene and Preventive Medicine for the year 1937-38.

STUDENT ILLNESSES

On the whole, student health was good throughout the year. Although we enjoyed comparative freedom from the epidemic diseases, we experienced an unusual incidence of atypical pneumonia during October, November, and December. Sixty such cases, two of which represented serious illness, were recorded at the Infirmary during the academic year.

There were reported 51 cases of communicable disease, 12 of which were secondary cases resulting from exposure to known original cases among students. Students made 17,923 sick calls at the office of the men's medical adviser, and 4,524 calls at the women's office. There were 155 operations performed in the Infirmary. No deaths occurred at the Infirmary.

MENTAL HYGIENE

This year, as an innovation, we reserved practically the full time of one male physician and half the time of a woman physician for psychiatric work. Together they saw 227 psychogenic cases. Of these, the great majority were psychoneuroses and responded well to treatment. Ten were definite psychoses, four manic-depressive, five schizophrenic. We made no attempt to treat the psychoses through our own facilities, but endeavored to secure immediate and proper institutional care.

Mental hygiene course work was extended by the addition of an extra semester dealing with the social application of mental hygiene principles.

We made a special effort to popularize mental hygiene work through talks to fraternities and introductory lectures to the first-year class in medicine. The Student Conduct Committee made use of the mental hygiene service by referring to it four disciplinary problem cases.

SOCIAL HYGIENE

The Hygiene I course included two lectures on the personal aspects of sex hygiene; the Hygiene II course, one lecture on the community aspects. There was a marked increase in the number of voluntary applications for the Wasserman tests. This increase appears to have been due largely to the publicity given the subject in the current campaign under the leadership of the United States Public Health Service and the American Social Hygiene Association. Departmental records show no cases of syphilis, three cases of gonorrhea.

COMBATING TUBERCULOSIS

A National Tuberculosis Association talking film was shown the entire Freshman class as a means of stimulating interest in the tuberculin-testing and chest-X-raying program. Nine men and twenty-five women who were tuberculin-positive and could not afford the usual cost of a chest radiograph availed themselves of the Mayer Fund to have this important test done.

	<i>Grads and Specials with at least 1 year's residence</i>		<i>Class of 1938</i>		<i>Class of 1939</i>		<i>Class of 1940</i>		<i>Class of 1941</i>		<i>Total</i>	
	<i>Men</i>	<i>Women</i>	<i>Men</i>	<i>Women</i>	<i>Men</i>	<i>Women</i>	<i>Men</i>	<i>Women</i>	<i>Men</i>	<i>Women</i>	<i>Men</i>	<i>Women</i>
Tuberculosis of the lung:												
Minimal	9		6	1	7		8		3		33	1
Moderately advanced	1	1							2	1	3	2
Far advanced	0	0	0	0	0	0	0	0	0	0	0	0

THE CARDIAC PROGRAM

As the members of each entering class receive their medical examination and chest radiograph those with cardiac murmurs or hypertrophy, or with a serious cardiac history, are referred to one member of our staff for study. This past year 168 cases were thus referred. Upon these cases a careful heart history was taken and a heart examination made. This examination included (1) study of the chest radiograph (2) fluoroscopic study in the several standard positions (3) cardiac physical examination. Where indicated complete blood counts, sedimentation rates, and electrocardiograms were done.

Since this program has been in operation only two years we cannot as yet provide complete figures on all the cardiac cases in the University. Figures accumulated to date show as follows:

	<i>Organic Heart Disease Cases</i>				
	<i>Class of 1938</i>	<i>Class of 1939</i>	<i>Class of 1940</i>	<i>Class of 1941</i>	<i>Total</i>
Men	6	5	16	10	37
Women	14	12	7	13	46

For these chronic cases the objectives of the program are (1) to maintain cardiac function on its present level (2) to prevent or minimize future incapacity.

THE CARE OF ATHLETES

Every candidate for an athletic team is examined by a member of our staff before participation in practice is permitted. Injuries sustained in athletics are all seen by our staff members. The following chart reveals the size of this problem:

	<i>Total Number Examined</i>	<i>Number Rejected</i>	<i>Number Injured</i>
Baseball	141	0	10
Basketball	107	0	19
Boxing	142	1	12
Crew	265	0	6
Fencing	78	0	1
Football	271	4	150
			Varsity 45
			Freshman 36
			Spring 17
			150 lb. 12
Golf	34	0	0
Hockey	53	0	11
Lacrosse	56	0	8
Polo	71	0	6
Soccer	76	0	6
Swimming	82	0	0
Tennis	59	0	1
Track	287	1	20
Wrestling	103	1	19

In caring for these cases our staff found it necessary to call in consultants as follows:

X-ray consultation in	12 cases
Dental consultation in	11 cases
Eye, ear, nose, and throat consultation in	6 cases
Surgical consultation in	9 cases

That rather excessive risks have attended the playing of intra-mural touch football is evidenced by the following list of injuries in that sport this past year:

Cerebral concussion	1
Fracture of one or more bones	7
Dislocation	4
Severe sprains	8
Severe contusions	2
Severe lacerations	4
Total	<u>26</u>

This was called to the attention of the Intramural Director and touch football will be played under less hazardous rules this coming year.

HEALTH EXAMINATIONS AND CONFERENCES

Examinations, Men:	
Class of 1941	1086
Class of 1938	575
Entering Graduate Students and others	852
Examinations, Women:	
Class of 1941	374
Class of 1938	261
Entering Graduate Students and others	145

Scheduled Health Conferences to follow-up entering examinations—1086.

THE INCIDENCE OF UNREMEDIED PHYSICAL DEFECTS (Men)

	<i>Class of 1938 as Freshmen</i>	<i>Class of 1938 as Seniors</i>
Defects needing surgical care	63	10
Defects needing medical care	113	38
Defects needing dental care	67	22
Defects needing oculist's care	63	26
Defects needing orthopedist's care	220	55
Per cent of class	<u>58%</u>	<u>26%</u>

THE INCIDENCE OF FAULTY HEALTH HABITS (Men)

	<i>Class of 1938 as Freshmen</i>	<i>Class of 1938 as Seniors</i>
Faults in important health habits	379	276
Per cent of class	42%	48%

These figures give us but little reason for complacency. Though we are apparently succeeding in reducing the number of remediable physical defects we are not succeeding measurably in improving the faulty health habits with our college health program.

CLASSROOM TEACHING

Arrangements were made for showing three talking films in the public health field to our Hygiene I and II classes this past year, and several additions were made to our charts and demonstration material. A summary of results in our several courses follows:

1608 registered for Hygiene I, all but 114 completing it successfully.

1454 registered for Hygiene II, all but 120 completing it successfully.

220 registered for elective hygiene courses, all but 27 completing them successfully.

For the coming year the Industrial Hygiene Course is to be extended to a two-hour course and the course on the Health Supervision of School Children extended to a three-hour course. The course on Mental Hygiene for Social Workers will not be given this coming year.

COOPERATIVE ACTIVITIES

Our staff during the past year contributed to the work of other departments of the University as follows:

1. Examined 197 women employees, 191 men employees, and gave 549 treatments to injured employees for the Buildings and Grounds Department and Department of Residential Halls.

2. Examined and inoculated 117 students against smallpox and typhoid for the Military Department.

3. Rejected upon physical grounds 207 students from the basic course in Military Training.

4. Made and interpreted 2203 radiographs and 8428 clinical laboratory tests.

5. Supervised the isolation of 51 communicable disease cases at the Infirmary.

6. Reviewed the medical records of 466 students whose scholastic standing was in question and sent notes to the college deans covering those cases where illness was a significant factor in accounting for poor work.

7. Vaccinated against smallpox 183 students preliminary to entrance in the University.

8. Supervised the sanitation of the swimming pools in the men's and women's gymnasiums.

THE DEPARTMENT'S MOST URGENT NEEDS

1. New housing where the Department can bring together its men's work, its women's work, its laboratory work, its radiographic work, and its course work in hygiene with added efficiency for all and where hygienic standards of heating, lighting, and ventilating can be maintained.

2. The appointment of a special committee to consider the advisability of acceding to the student demand for expansion of the University's medical services. The present system carries approximately 75 per cent of the costs of medical care (estimated at \$27.60 per student per year) on the fixed-periodical-payment basis. It may well be that this percentage could be somewhat raised to good advantage.

In closing may I express the appreciation of our staff for your interest in and support of the work of this department in this your first year with us.

D. F. SMILEY, M.D.,
Professor of Hygiene and Medical Adviser.

APPENDIX XXI

REPORT OF THE DIRECTOR OF EXTRA MURAL COURSES

To the President of the University:

SIR: I have the honor to submit a report on the work of the Extra Mural Courses for the year 1937-38.

The work of Extra Mural Courses as carried on by Cornell continues to receive the approval of the public—particularly superintendents, principals, and teachers in the public schools. Thus far most of the students enrolling in these courses are teachers in public school systems. A number of these students have continued their study in the Cornell Summer Session as a result of these contacts with regular members of the University staff. Since only regular members of the staff are permitted to give instruction in these courses and since the work must be sustained through tuition fees, the policy is proportionately conservative. This precludes rapid expansion but it does insure high standards and procedures in keeping with the general policy of the University.

One of the great benefits accruing to the University from this work is the visit made to a community by a member of the regular staff week after week thereby making professional contacts with school authorities. These school officials occupy strategic positions for advising promising students of the offerings at Cornell. The member of the staff, in turn, is in a position to furnish important information regarding the nature of the work at Cornell and how the admission requirements may be met. This by-product of academic goodwill is real and more significant than may at first be apparent. The fact that the University is willing to provide such a service, as practically all the universities of the first magnitude now do, not only prevents an undesirable type of criticism but actually builds a cordial interest which aids in sustaining the institution in the minds of the people.

During the academic year of 1937-38 centers have been maintained in Ithaca, Port Dickinson, Union Springs, Owego, and Wellsville. Ninety-nine students have been enrolled. The total income from the courses has been \$2,250. The total expenditures for teaching stipends, traveling expenses for instructors, and administrative expenses have been \$1,819.88, leaving a balance of \$430.12.

This service meets with the cordial approval of the authorities of the State Department of Education. It is their desire that substantial courses shall be given off-campus wherever there is sufficient demand and standards of a high order are maintained. Cornell is in a strategic position to serve certain areas of the state and its integrity in maintaining all its services at a high level makes the work of the Extra Mural Courses proportionately significant.

CLYDE B. MOORE,
Director, Extra Mural Courses.

APPENDIX XXII

REPORT OF THE LIBRARIAN

To the President of the University:

SIR: I have the honor to submit the report of the Librarian of the University Library for the year ended June 30, 1938.

The Librarian's report of last year announced the completion of the addition to the library building and the successful moving of practically all the books in the building. The Librarian cannot refrain from commenting upon the effect of the increase in book space after more than a year's operation under the new conditions. The sense of relief in the shelving of books and in their handling for daily use continues unabated. The modern stack and shelf construction, the thoroughly efficient modern stack lighting, the ample, unified locked-press arrangement for the more valuable books, are in such glaring contrast with the system still obtaining in the older stacks of the present building that it is difficult to realize that the Library functioned as well as it did under the old conditions. The space devoted to administrative and technical staff work, however, is still practically the same as it was twenty years ago. With the increasing growth and use of the Library this condition has inflicted actual hardship and discomfort upon the staff and hampers in a continually increasing degree the proper functioning of all the technical and administrative divisions.

The installation of a new indirect lighting system in the main reading room to replace the old desk lights, which were the source of continued complaints for many years, has made a vast difference in the working conditions in the reading room. This is particularly noticeable in the increased use of the room during the evening hours.

STAFF

In July 1937 Mr. Dane L. Baldwin was added to the staff with the special duty of caring for the Goldwin Smith Hall and the Hart Libraries. In the same month Miss Frances L. Macoughtry entered the library service as a cataloguer.

With keen regret the Librarian records the death on June 27, 1938 in his 82nd year, of Professor George Lincoln Burr, Curator Emeritus of The President White Historical Library, a special division of the University Library. This division was established in 1887, when Dr. Andrew D. White, who had retired from the Presidency of the University in 1885, donated practically the whole of his private library, some 40,000 volumes, to the University, stipulating that the Trustees set aside a specific sum annually for additions in the fields in which this collection was particularly strong, mediaeval and modern European history and political science.

It is with this collection that Professor Burr's library activities were particularly concerned, and his connection with it began long before it became a part of the University Library. In fact, as Dr. White's amanuensis, assistant, and purchasing agent in Europe he was instrumental in selecting and gathering many of the books and manuscripts which are now the richest treasures of our University book collection.

No one was more ready to acknowledge this debt to Professor Burr than Andrew D. White himself. When the present Library building was dedicated on October 7, 1891, Dr. White made a formal presentation of the President White Library. In words which, now, on this sad occasion almost forty-seven years later, we recall with the full conviction that they might have been said of all that Professor Burr did after that time, as well as of what he did to build up the library which was then donated, President White said:

"It would be gross injustice not to mention here with honor and gratitude the name of one man whose agency in collecting books for the library has, during these ten years past, been far more important than my own: that man is my friend, Professor George Lincoln Burr. To his exhaustive and accurate knowledge, excellent judgment, broad view of the scope of such a library, deep sense

of its true purpose, and devotion to the University, is due far more than to any efforts of my own the most valuable growth of this collection. He too, has ransacked the most important repositories of historical treasures throughout Europe, and has given to the collection a value which it probably never would have obtained without his unselfish labor."

Professor Burr was born at Oramen (Allegheny County) in western New York on January 30, 1857, the son of William Josiah Burr, a physician. He prepared for college at the Cortland Academy in Homer, N. Y. and at the same time learned the printer's trade. In 1877 he entered Cornell and graduated in 1881. Before his graduation President White had already called upon him to help with the President's private library. Upon his graduation he was appointed an instructor in history and from this time onward until his retirement in 1922 he was more or less continually a member of the faculty, teaching some phase of ancient, mediaeval, or modern history. He was made Assistant Professor in 1889 and Professor in 1892. He became President White's personal secretary and assistant in 1881. In 1884 to 1886 and again in 1887 to 1888 he spent longer periods of study and research in Europe, during which time also he took an active share in searching for and purchasing books and manuscripts for President White's library. When the President's library was transferred to the University, Professor Burr was made the official Librarian of this special collection, and from that time up to the year of his death, even after his retirement from active duty on the faculty in 1922, he devoted a great part of his energy to the care and growth of the undertaking which he had helped to initiate.

In addition to the broadly human qualities of gentleness, unselfishness, and devotion which won for him the lasting love of his students and fellow teachers, George Burr was imbued with an intensely moving type of humanitarianism, which took the form of an open and pronounced opposition to anything that savored of injustice. His was a militant liberalism that waged a vigorous war upon any form of oppression, tyranny, superstition, intolerance, or prejudice, ever ready to rush without hesitation or reserve to the defense of the under-dog. And when this mood was upon him he cast off entirely the mild and gentle manner which characterized his ordinary dealings with his fellow men.

This attitude of mind is responsible for the development of certain fields in the President White Library in which it is still pre-eminent. Here his leanings coincided with certain lines of thought which had guided Andrew D. White in the building up of his historical library. Beginning with the problem treated by White in his book "A History of the Warfare of Science with Theology in Christendom" in the growth of which George Burr had no small part, he developed during Andrew D. White's life and after his death the sections on the Reformation, the Counter-Reformation, the Inquisition, Torture, the French Revolution, and the Napoleonic period and particularly in his later years the field of witchcraft. His interest here was not in the mystery and black magic of witchcraft, but in the problem of witchcraft accusations and trials, the ignorance and superstition, the tyranny and intolerance, the injustice and cruelty, which made this whole movement a blot upon the history of civilization. This was the George Burr, whose sturdy courage, whose uprightness and fairness, whose meticulous scholarship and broad knowledge, were memorialized in the volume which his friends and former students dedicated to him on the eve of his seventy-fifth birthday in the book entitled "Persecution and Liberty; Essays in Honor of George Lincoln Burr" (New York, 1931).

A further contribution to the usefulness of the President White Library may be seen in the three volumes of a "Catalogue of the Historical Library of Andrew Dickson White" which were prepared and published under Professor Burr's direction.

I. The Protestant Reformation and its Forerunners (1889)

II. The French Revolution (1894)

IV. Miscellanea (1897)

The volume planned as No. III was never published. And a catalogue planned for the witchcraft collection remained in the form of handwritten slips.

Year after year Professor Burr turned over to the Cornell University Library the income from the sale of Andrew D. White's book on the Warfare of Science with Religion. And the same generous spirit directed to the shelves of the Library many of the journals and proceedings of learned societies of which Burr was a member and many valuable books which came to him in his capacity as an editor or as a historian.

Others will tell of Professor Burr's work as a teacher and as a scholar, and of his life dedicated to Cornell University as a whole; but from what has been said here it will be clear that for the Cornell University Library George Lincoln Burr was not merely a faithful and devoted servant, but a father and a mighty support, a model and a guide for all who come after him.

EXHIBITIONS

During the year a small exhibition was made of a few of the treasures of the Wordsworth Collection, formed by Mrs. Cynthia Morgan St. John of Ithaca, and presented to the University in 1925 by a loyal alumnus, Mr. Victor Emanuel of the Class of 1919. A most interesting display was provided by a collection of actual photographs of the individual members of the Faculty in the early seventies, which came from a class album collected by Mr. Owen Harris of the Class of 1874 and presented to the Library by his son, Mr. Joseph Porter Harris of the Class of 1901.

ACCESSIONS

The total amount expended for books and bindings during the year 1937-38 was \$40,610 as against \$38,453 for the preceding year. Miss Ingersoll, Head of the Accessions Division reports that the total number of additions was 15,163 as against 10,668 last year. Of these 10,679 went to the general library and the remainder, 4,484, to special collections. Of the general acquisitions 6,749 were purchased and 3,930 were gifts.

	<i>Items Added</i>	<i>Present Extent</i>
General Library	10,679	683,431
Fiske Dante Collection	82	10,750
Fiske Petrarch Collection	33	4,526
Fiske Icelandic Collection	372	21,040
Wason Chinese Collection	2,203	24,439
Wordsworth Collection (Gift of Mr. Victor Emanuel)	51	2,602
Cornell University theses	674	13,070
Philological Seminary Collection	5	1,159
Philosophical Seminary Collection	1	1,001
German Seminary Collection	—	759
French Seminary Collection	—	24
Latin Seminary Collection	—	326
American History Seminary Collection	6	672
Manuscripts	11	963
Cornell University maps and plans	—	202
Maps	17	1,172
U. S. Coast Survey charts	—	950
U. S. Geological Survey topographical sheets	64	4,024
U. S. Geological Survey atlases	—	216
British Geological Survey maps	—	600
College of Architecture Library	99	2,760
Barnes Hall Library	83	3,762
Chemistry Library (Special)	38	436
Comstock Memorial Library	130	1,820
Economics Laboratory Collection	—	340
Forestry Library	—	1,881
Flower Veterinary Library	320	11,725

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	<i>Items Added</i>	<i>Present Extent</i>
Goldwin Smith Hall Library	88	3,763
Gray Memorial Library (Electrical Engineering)	19	838
Hart Memorial Library (English Literature)	29	4,787
Kuichling Engineering Library	42	2,275
Rockefeller Hall Library (Physics)	—	1,190
Van Cleeef Memorial Library (Medicine)	168	4,637
Total, including manuscripts and maps	15,163	812,140
New York State College of Agriculture Library	5,404	104,176
New York State College of Home Economics Library	767	8,003
Law Library	3,496	85,851
Total on entire campus	24,881	1,010,170

CATALOGUE DIVISION

Miss Speed, Head of the Catalogue Division, reports the following figures:

Volumes and pamphlets catalogued	15,364
Maps catalogued	91
Manuscripts catalogued	25
Titles added to the catalogue	10,654
Typewritten cards added	17,959
Printed cards added	17,800
Cards added to the Library of Congress Depository Catalogue	51,525
Additions to cards	7,640
Volumes recatalogued	185
Cards corrected or dated	4,321
Microfilms	13

CLASSIFICATION AND SHELF DIVISION

The figures reported by Mr. De Grassi for this division are:

Books classified	11,521
Documents	317
Manuscripts	10
Maps	72
Theses	306
Books reclassified	75

PERIODICALS DIVISION

Miss Leland, Head of the Periodicals Division, reports:

Periodicals currently received:	
By subscription	1,302
By gift and exchange	1,328
Total	2,630
Number of volumes on open shelves	3,567
Current periodicals on open shelves	661
Issued for brief home use	545
Periodical volumes bound during the year	4,081

The list of publications of faculty members, appended to the President's Report, was edited, as usual, by Miss Leland.

READERS' DIVISION

Mr. Willis, Associate Librarian, who is in charge of the Reading Room and of Inter-Library Loans, reports the following figures:

Days open to the public.....	341
Registered borrowers	
Faculty.....	1,743
Students	
College year.....	3,837
Summer Session.....	345
Recorded Use	
Reading Room (number of books).....	132,411
Seminary Rooms.....	2,476
Stalls.....	3,789
Laboratories and Departments.....	4,761
Home use (including 13,795 "Seven-day" loans).....	55,076

INTER-LIBRARY LOANS

Lent to other libraries (volumes).....	1,047
Borrowed from other libraries.....	424

The number of university, college, government, public, and industrial libraries that borrowed from Cornell was 163. Among them were:

University of Rochester.....	86	Chicago University.....	18
Washington University, St. Louis,		Hobart College.....	18
Mo.....	65	Princeton University.....	18
Syracuse University.....	50	Smith College.....	17
Wells College.....	50	Binghamton Public.....	16
Pennsylvania State College.....	36	University of Buffalo.....	16
Eastman Kodak Co.....	27	Columbia University.....	15
University of Toronto.....	24	University of Michigan.....	15
Hamilton College.....	22	Corning Glass Works.....	14
E. I. du Pont de Nemours and Co.....	20	Brown University.....	13
Iowa State University.....	20		

Cornell borrowed books from 60 other libraries. Among them were:

Library of Congress.....	133	New York State Library.....	10
Harvard University.....	37	University of Texas.....	10
University of Rochester (Sibley		Brown University.....	7
Musical Library 22).....	34	Boston Public Library.....	6
Columbia University.....	31	Eastman Kodak Company.....	6
Princeton University.....	17	American Museum of Natural His-	
Yale University.....	13	tory.....	5
University of Chicago.....	12	University of Arizona.....	5
American Antiquarian Society.....	11		

GIFTS

The names entered on our donors' list number 595. To each of these donors the Librarian, in the name of the University and of all who make use of our collection, offers sincere and heartfelt thanks. A very significant part of our gift list is the record of the number of journals and magazines which come to us regularly as donations of their publishers or editors. Our gratitude to these individuals as well as to the government agencies, foundations, institutions, societies, and business undertakings whose serial publications reach us regularly, and whose contributions over a long number of years represent a material value that often runs to high figures, grows with the added years.

Mrs. Miriam S. Weyl donated \$25 for books to be added to those purchased from the James S. Weyl book endowment. Other cash donations for general or for specific purposes were received from Mr. Victor Emanuel, Mr. Elmer M. Johnson, and from Mr. and Mrs. William F. E. Gurley. Mr. and Mrs. Gurley have likewise added to the long list of books, particularly of Shakespeariana and the theater, which have been received from them in the past. Dr. N. M. Crouse who gave books on the Spanish situation, Dr. Henry P. de Forest, Mr. Carter R. Kingsley, the Hon. William Sulzer, and Mr. Douglas C. McMurtrie have also remained steady donors. The number of members of the Faculty who have followed this practice is too great to name them individually in this paragraph, but the Librarian wishes to assure them that this particular form of "charity at home" is not the least gratifying evidence of their interest in the book collection which is peculiarly their own.

Only a few of the actual book donations can be listed here. They include a gift from the Hon. Charles G. Dawes: "Notes as Vice President, 1928-1929." Mr. George V. Fowler of Yonkers, N. Y. gave us 53 miscellaneous bound volumes and a set of account books of Benjamin Fowler (Yonkers 1807-1820). From Miss Clara W. Hastings we received an autograph letter of Ezra Cornell, dated 11 December 1863. Through Miss Mary J. Hull we received from the estate of the late Professor Charles H. Hull, among other items, a map of New York State (1795), a map of Ithaca (1836), a number of early Geneva, N. Y., and Canandaigua, N. Y. imprints, and many miscellaneous pamphlets and volumes. Through Professor P. W. Gates the Indiana Historical Commission and the Historical, Memorial, and Art Department of Iowa presented many of their historical publications. Mr. James McCall added to our file of Bath newspapers by giving us bound volumes of the Bath Plaindealer, Vol. 1 (1883-84) and Vols. 16-38 (1898-1921), and added a manuscript index for a part of this material. Miss Jean McDermott presented 323 volumes chiefly on naval architecture and engineering. Mr. A. J. T. Mendes gave 77 miscellaneous books and pamphlets. From Mr. Frederick J. Nettlefold came the handsome "Catalogue of the pictures and drawings in the Collection of F. J. Nettlefold."

OTTO KINKELDEY,
Librarian.

APPENDIX XXIII

PUBLICATIONS 1937-38

The University Library keeps alphabetically arranged the publications of University Officers, so far as received at the Library, and for this purpose copies are solicited. Omissions in the following list are due to incomplete information.

- Cornell University.** Official publication. v. 29, 1937-38.
- Cornell University.** Agricultural Experiment Station. Bulletin. Ithaca, N. Y. No. 679-89, 691, 693-695. 1937-38.
- Memoir. Ithaca, N. Y. No. 206-211, 216. 1937-38.
- Cornell University.** College of Architecture. Report of the Dean. 1936-37. *Cornell University. Off. pub. v. 29, no. 2. App. XI. 1937.*
- Cornell University.** College of Arts and Sciences. Report of the Dean. 1936-37. *Ibid. v. 29, no. 2. App. III. 1937.*
- Cornell University.** College of Engineering. Report of the Associate Dean. 1936-37. *Ibid. v. 29, no. 2. App. XII. 1937.*
- Cornell University.** Director of Admissions. Report. 1936-37. *Ibid. v. 29, no. 2. App. XVI. 1937.*
- Cornell University.** Director of Physical Education and Athletics. Report. 1936-37. *Ibid. v. 29, no. 2. App. XIX. 1937.*
- Cornell University.** Director of Extra Mural Courses. Report. 1936-37. *Ibid. v. 29, no. 2. App. XX. 1937.*
- Cornell University.** Law School. Report of the Dean. 1936-37. *Ibid. v. 29, no. 2. App. IV. 1937.*
- Cornell University.** Dean of Women. Report. 1936-37. *Ibid. v. 29, no. 2. App. XV. 1937.*
- Cornell University.** Graduate School. Report of the Dean. 1936-37. *Ibid. v. 29, no. 2. App. II. 1937.*
- Cornell University.** Graduate School of Education. Report of the Director. 1936-37. *Ibid. v. 29, no. 2. App. XIII. 1937.*
- Cornell University.** Library. Report of the Librarian. 1936-37. *Ibid. v. 29, no. 2. App. XXI. 1937.*
- Publications (by Cornell University and its officers). 1936-37. *Ibid. v. 29, no. 2. App. XXII. 1937.*
- Cornell University.** Medical College. Report of the Dean of the Medical College. 1936-37. *Ibid. v. 29, no. 2. App. V. 1937.*
- Cornell University.** Medical College, Ithaca Division. Report of the Secretary. 1936-37. *Ibid. v. 29, no. 2. App. VI. 1937.*
- Cornell University.** President. Annual Report. 1936-37. *Ibid. v. 29, no. 2. 1937.*
- Cornell University.** Registrar. Report. 1936-37. *Ibid. v. 29, no. 2. App. XVII. 1937.*
- Cornell University.** Summer Session. Report of the Administrative Board. 1936. *Ibid. v. 29, no. 2. App. XIV. 1937.*
- Cornell University.** University Faculty. Report of the Dean. 1936-37. *Ibid. v. 29, no. 2. App. I. 1937.*
- Cornell University.** University Placement Bureau. Report. 1936-37. *Ibid. v. 29, no. 2. App. XVIII. 1937.*
- New York State College of Agriculture.** Report of the Dean for the year 1936-37. *Ibid. v. 29, no. 2. App. VIII. 1937.*
- New York State College of Home Economics.** Report of the Dean. 1936-37. *Ibid. v. 29, no. 2. App. X. 1937.*
- New York State Veterinary College.** Report of the Dean. 1936-37. *Ibid. v. 29, no. 2. App. VII. 1937.*
- New York State Agricultural Experiment Station.** Report of the Director. 1936-37. *Ibid. v. 29, no. 2. App. IX. 1937.*
- New York State Agricultural Experiment Station.** Geneva, N. Y. Bulletin 679, 1937.

- Circular. 163-179. 1937-38.
 — Technical bulletin. 246-248. 1937.
- Areopagus.** Ithaca, N. Y. v. 6. 1937-38.
- Cornell** alumni news. Ithaca, N. Y. v. 40. 1937-38.
- Cornell** countryman. Ithaca, N. Y. v. 35. Oct., 1937-June, 1938.
- Cornell** daily sun. Ithaca, N. Y. v. 58. 1937-38.
- Cornell** engineer. Ithaca, N. Y. v. 3. Oct., 1937-May, 1938.
- Cornell** extension bulletin. Ithaca, N. Y. No. 375-386; 391-92. 1937-38.
- Cornell** law quarterly: published by the faculty and students of the Cornell Law School. Ithaca, N. Y. v. 23. December, 1937-June, 1938.
- Cornell** rural school leaflet. Ithaca, N. Y. v. 31. September, 1937-March, 1938.
- Cornell** Society of Hotelmen. Bulletin. Ithaca, N. Y. v. 10, no. 3-v. 11, no. 2. 1937-38; also Suppl. no. 1, Apr., 1938.
- Cornell University.** Engineering Experiment Station. Bulletin. Ithaca, N. Y. No. 24. 1937.
- Cornell University.** Engineering Experiment Station. Reprint. Ithaca, N. Y. No. 1. 1938.
- Cornell** veterinarian. Ithaca, N. Y. v. 27. 1937.
- Cornellian.** Ithaca, N. Y. v. 70. 1938.
- Cornellian** Council bulletin. Ithaca, N. Y. v. 23. 1937-38.
- Farm** economics. Ithaca, N. Y. No. 103-107. 1937-38.
- Islandica.** Ithaca, N. Y. v. 26. 1937.
- Philosophical** review. New York, Longmans, Green and Co. v. 47. 1938.
- Widow.** Ithaca, N. Y. v. 44. 1937-38.
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