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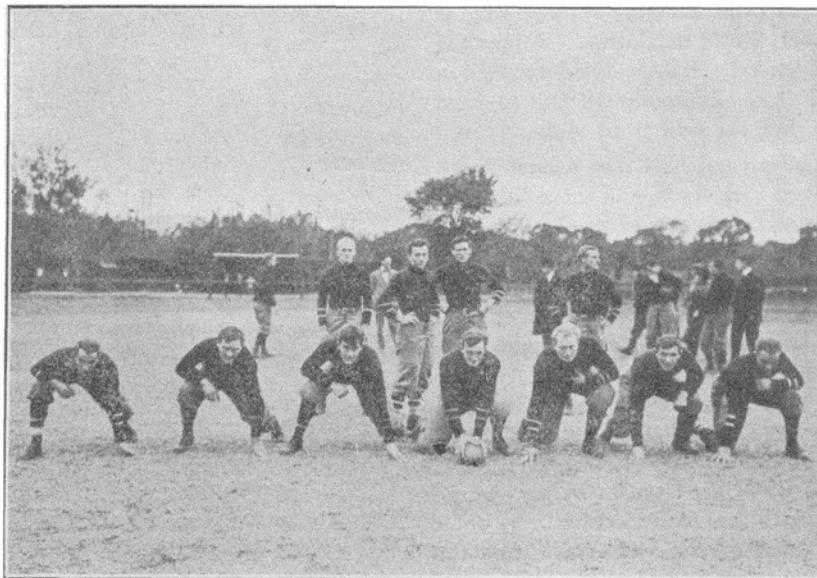
CORNELL, 14; ARMY, 10.

Victory Won in the Last Few Minutes of
Play after an Uphill Struggle.

Against the West Point eleven, which had not been scored on this season, even by Yale, Cornell played a magnificent game last Saturday, winning by a score of 14 to 10. The figures do not give a fair idea of the relative strength of the two teams. The Red and White made two touchdowns, both fairly earned, and a safety, while the Army's score was the result of a blocked punt and a goal from the field. The West Point line, which critics had declared to be well nigh impenetrable, yielded time and again for long gains by the Cornell backs, and large advances were also made by carrying the ball around the Army's ends.

The feature of Cornell's offensive play was her frequent and successful use of the forward pass. Most of these passes were of the usual kind—from the quarterback position; on three occasions Watson, who had been practicing an especially long forward pass, was drawn back from his position at left end to execute this play, but in only one case was it successful.

Cornell advanced the ball a total of 330 yards, while the Army advanced the ball only 20 yards. West Point made but one first down; Cornell made nine. In only one respect did the Army show slight superiority, and that was in the matter of punting. Beaver kicked fourteen times for an average of forty-two yards, while Walder's ten kicks averaged thirty-six yards. If one feature of Cornell's play shone out more brightly than another, it was the accuracy of the halfbacks, especially



CORNELL 'VARSITY FOOTBALL TEAM. FRONT ROW, LEFT TO RIGHT: VAN ORMAN, O'ROURKE, COSGROVE, MAY, THOMPSON, COOK, WATSON. UPPER ROW, LEFT TO RIGHT: M'CALLIE, GARDNER, WALDER, EARLE.

McCallie, in receiving forward passes.

Most encouraging was the spirit shown by the 'varsity eleven almost at the end of the game, when the score stood 10 to 6 in favor of the Army. The prospect of defeat seemed to give the team a new energy, and they went at their opponents with a determination which, although balked several times, finally gave them a touchdown. One of the most spectacular plays of the game was made by Van Orman. While interfering for McCallie, the Cornell end hurled himself at three West Pointers who were advancing in a group to tackle the runner. He bowled them all over, knocking himself and one of them unconscious, and had to be carried from the field.

Cornell scored within the first four minutes of the first half. Soon after the kick-off Gary muffed a punt on the Army's 40-yard line and Thompson recovered the ball for Cornell. A

forward pass to McCallie gained thirty yards, and on a similar play, at the other end, Earle carried the ball between the goal posts. Walder kicked an easy goal, making the score Cornell 6, Army 0. The Army made its first four points a few minutes later. An attempt by Walder to punt from Cornell's 25-yard line was blocked, and, after a failure to gain, Beaver, standing on the 35-yard line, booted the ball squarely between the posts. Score: Cornell 6, Army 4. Twice again in the first half Cornell carried the ball across the goal line, but in neither case was a touchdown allowed. Cornell had rushed the ball for about forty yards to a point within a few feet of the goal line, and from there it was pushed over. The referee ruled that a touchdown had been made, and Walder was preparing to kick the goal, when the umpire declared that there had been holding in the Cornell line and inflicted a penalty of fifteen

yards. This made it necessary for Gardner to try for a field goal, but the angle was wide and the attempt failed. Again Cornell resumed her rushing tactics and again the ball was carried over the goal line, but it was pushed back, and the referee gave it to West Point on downs. Before the half ended, Walder tried to kick a goal from placement on the 45-yard line, but the ball went wide.

The second half was a hard fight. Cornell kicked off, and there followed several exchanges of punts in which the Army gained. Then an on-side kick went into Walder's arms on Cornell's 10-yard line. He punted and the ball was heeled on Cornell's 45-yard line, only to be recalled because the play had started before the referee blew his whistle. Walder punted again and the kick was blocked. The ball rolled over the goal line, where Philoon, the Army center, fell on it for a touchdown. Beaver kicked the goal and the score was Army 10, Cornell 6. Undaunted by this reverse, Cornell went at it harder than ever. From midfield, where the ball was obtained on a punt, Walder and McCallie went through or around the soldiers' line to the 10-yard mark. Here Cornell fumbled, and, as there were only a few minutes more to play, the outlook seemed dark. The onslaught was resumed, however, and Walder cross-bucked the Army line for big gains. A forward pass took the ball to the 30-yard line. Walder gained five yards more and McCallie three. The soldiers were massed to check the line plunges, when suddenly McCallie shot out from the bunch toward the right. Gardner had made a long forward pass, so long that it seemed utterly impossible for McCallie to get under the ball. Perhaps no other man on the field could have done it, but he succeeded, and crossed the goal line with the game won. Walder again kicked the goal, and the score stood Cornell 12, Army 10. Just before time was called Watson made a thirty-five yard forward pass which was caught by Mountford almost on the Army's goal line and he was

thrown across the line for a safety, which added two points to Cornell's score.

The line-up follows:

Cornell.		Army.	
Watson	l. e.	Ayres	
Lynch	l. t.	Fowler	
Thompson	l. g.	Erwin	
May	c.	Philoon	
Cosgrove	r. g.	Moss	
O'Rourke	r. t.	Pullen	
Van Orman	r. e.	Stearns	
Gardner	q. b.	Gary	
Earle	l. h. b.	Beaver	
McCallie	r. h. b.	Smith	
Walder	f. b.	Weeks	

Touchdowns, Earle, McCallie, Philoon. Goals from touchdowns, Walder, 2, Beaver. Goal from field, Beaver. Safety, Mountford. Referee, A. H. Sharpe, of Yale. Umpire, F. Murphy, of Brown. Field judge, L. P. Vail, of Pennsylvania. Head linesman, Lieutenant Nelly, Army. Time of halves, 25 minutes. Substitutes, Harris for Van Orman, Caldwell for Gardner, Mowe for Earle, Hayes for Ayres, Bowen for Moss, Besson for Pullen, Mountford for Gary, Greble for Beaver, Chamberlain for Smith, Hanlon for Weeks.

The Football Season.

(Cornell's score given first.)

Oct. 2, Hamilton, 23-0.
Oct. 5, Oberlin, 22-5.
Oct. 9, Niagara, 47-0.
Oct. 12, Colgate, 18-0.
Oct. 19, Penn State, 6-8.
Oct. 26, Princeton, 6-5.
Nov. 2, W. U. P., 18-5.
Nov. 9, West Point, 14-10.
Nov. 16, Swarthmore at Ithaca.
Nov. 28, U. of P. at Philadelphia.

The freshman eleven was defeated on Percy Field last Saturday by the team from Wyoming Seminary. The visitors scored two touchdowns, making the final score 12 to 0.

The 'cross-country race for the Auerbach cup will not be held until after the intercollegiate meet, which will take place at Princeton on November 27.

The Deutscher Verein will present "Alt Heidelberg" in the Lyceum theater on December 12.

MORE OF PRESIDENT'S REPORT.

Liberal Study and Elementary Science—
Finances of the University.

Of the various topics discussed in President Schurman's report there have been considered in these columns the subject of halls of residence and the question of prescribing liberal study for technical and professional students. Other matters of general interest there discussed relate to educational efficiency in the fields of liberal culture and pure science, to democracy in education and to the finances of the University.

On the subject of liberal education at Cornell, President Schurman points out that the general adoption of the elective system has obscured the idea of what a liberal education is. He expresses the opinion that, pending the recovery of an acceptable definition of liberal education, the colleges of arts in America will perform three definite functions: (1) they will give an education in the liberal arts and pure science to the comparatively small number of men who seek such an education before entering schools of theology, law, medicine or technology; (2) they will train specialists in education or writing; (3) they will give a more general education to men who will afterward devote themselves to business, journalism, the public service etc. The President suggests to the Faculty the consideration of the policy of formulating, with the aid of outside experts in business, journalism etc., courses to be recommended to undergraduates who look forward to these vocations. While President Schurman does not advocate the introduction of the tutorial system of Oxford University, he does insist that professors and instructors shall get into close touch with their students. It is indispensable, he says, that they give the students individual attention and training.

In the field of pure science President Schurman says that the professors are committed to three or four kinds of work. They are expected to cultivate research and investiga-

tion, to give instruction to students in technical and professional courses in which the sciences are prescribed, to teach elementary science to undergraduates who take the subject as a means of general culture, and to conduct through more advanced and specialized courses those students who, without planning to go so far as graduate work, yet desire to know more of the subject than is given either in the courses for beginners or the courses prescribed for students in the technical colleges. He thinks that certain improvements can be made in the organization and presentation of courses in elementary science intended for students who do not pursue the subject beyond that elementary stage. These courses should be general and comprehensive, and not microscopic and intensive, as the specialist is apt to make them. The reorganization of elementary courses in science so that they may furnish to undergraduates who go no further the peculiar sort both of culture and training they are capable of yielding is the most pressing educational problem now confronting the science departments of Cornell University.

Speaking of democracy in education, in comparing the endowed universities of the East with the state universities of the West, President Schurman points out that there are only three sources of revenue for colleges and universities. These are public taxation, private munificence, and charges on students for instruction and the facilities of instruction. In the eastern states the fees collected from students are in general already higher than they ought to be, in some cases far higher. Every advance in the fees charged for tuition and other purposes in colleges and universities tends to exclude a certain portion of our population from the benefits of the higher education. Tuition in Cornell University is free in the Agricultural College and free to New York State students in the Veterinary College, both of which are supported by the State. President Schurman believes

this to be an ideal arrangement for the colleges and universities in a democracy. Although the fees at Cornell University are lower than in most of the large eastern universities, the President would like to see them lower still. But these fees can not be lowered unless the University receives an augmentation of its endowment funds for that purpose.

Relative to the finances of Cornell University, President Schurman says that, excluding the Medical College in New York City, the productive funds of the University amounted on August 1, 1907, to \$8,550,916.84. The corresponding figures for August 1, 1906, were \$7,839,874.42. The increase is due principally to the receipt from the executors of the Willard Fiske estate of \$488,531 toward the endowment of the Library and \$105,000 from the executors of the F. W. Guiteau estate in augmentation of the F. W. Guiteau Student Loan Fund. The rate of interest upon invested funds (including cash) actually received fell from 5.18 per cent. for the year ending on August 1, 1906, to 4.97 per cent. for the year ending on August 1, 1907. The income of Cornell University for the year 1906-1907 amounted to \$1,270,875.67. Of this amount scarcely one-third — \$409,873.51 — was received from the students in the form of tuition and laboratory and other fees.

The deficit for the year was \$10,748.26. There was, however, a deficit of \$13,351.30 for the year ending August 1, 1906. The actual cash shortage on August 1, 1907, was, therefore, \$24,099.56. But in addition to this shortage the income of the University owes to certain funds \$41,485.79, and to complete contracts already made further appropriations of \$20,718.02 will be necessary. The total deficit, therefore, on August 1, 1907, was \$86,303.37. Of this amount \$72,645.08 is an inheritance from the disastrous epidemic year of 1903.

The short winter course in agriculture will begin on December 5.

CORNELLIANS IN ELECTION.

H. L. Taylor, '88, Gets a Big Majority in Erie County—Other Results.

Several Cornellians were candidates for office in the election which was held on November 5. Following are some of the results of that election:

Harry L. Taylor, '88 (Law, '93), former captain of the 'varsity nine and now a member of the University Board of Trustees, was elected county judge of Erie county by a Republican majority of 13,587 in a total vote of 82,411. He scored the highest vote obtained by any candidate in the city of Buffalo. Judge Taylor has already held the office for about a year, having been appointed to fill a vacancy.

William D. Cunningham, '00, of Ellenville, N. Y., after four years in the State Assembly, was elected district attorney of Ulster county by the unprecedented Republican majority of 2,181.

William H. Coon, '00, of Batavia, N. Y., was elected district attorney of Genesee county by a large Republican majority.

Franklin A. Coles, '84, of Glen Cove, L. I., was re-elected district attorney of Nassau county by the Republicans after serving a creditable term of three years. Earl J. Bennett, '01, of Rockville Center, L. I., is his assistant.

William Young, '93, who has served several terms in the State Assembly, was elected by the Republicans a justice of the Municipal Court in New York city. The justices of this court are elected for a term of ten years at an annual salary of \$6,000.

Mark M. Schlesinger, '86, was elected judge of the Court of Special Sessions in the city of New Rochelle, N. Y. Mr. Schlesinger is a member of the firm of Avery & Schlesinger, attorneys, whose offices are at 20 Broad street, New York.

Edward C. Dowling, '91, running on the Republican ticket, was elected justice of the Municipal Court in the

Sixth Judicial District of Brooklyn.

The following Cornellians were elected to the New York State Assembly: Andrew C. Troy, '03, Democrat, fourth district, Kings county; Thomas J. Surpless, '00, Republican, sixth district, Kings county; C. Fred Boshart, '84, Republican, Lewis county; J. Henry Walters, '96, Republican, Onondaga county; William H. Chamberlain, '89, Republican, Steuben county; Joseph M. Fowler, '95, Republican, Ulster county. Sherman Moreland, '92, majority leader of the Assembly last year, was defeated for re-election as a member of Assembly by 44 votes.

Frederick H. Jackson, '73, the Republican candidate for governor of Rhode Island, was defeated by Governor Higgins, who had been nominated by the Democrats to succeed himself.

The Abandoned Grill Room.

The following statement is made by Earl H. Kelsey, '05, General Secretary of the Christian Association, in regard to the plan, now abandoned, to establish a grill room in Barnes Hall:

"The grill room project sprang up last spring from a desire on the part of the students to have such an institution on the campus and from the desire of the Association to make Barnes Hall more of a student center, thereby fostering a healthy social life among the students. At that time \$1,800 in cash and pledges was raised. In June the Executive Committee of the Board of Trustees of the University referred the matter of remodeling the basement of Barnes hall to the full Board. At the October meeting of the Board the request was laid on the table. This action necessitated abandoning the project and returning the money collected.

"The grill room was but one of the ways by which the Christian Association has been, and is, endeavoring to make Barnes hall of more real use to the student body. This policy will be maintained. It is based upon the hope that the Christian Association

of Cornell may exemplify the highest type of Christianity by being a part of the everyday life of the students and by encouraging and promoting all that is healthy and manly in college life. To this end they wish to make Barnes hall more and more a student center.

"We hope to be able in the near future to do considerable redecorating and refurnishing in order to make the building more attractive. The Athletic Council is generously installing cases in the West Dome to make that room available for a trophy room, the present one being too small for the proper display of Cornell's rapidly increasing stock of athletic trophies. The Association will improve this room and others as rapidly as the financial support given it permits.

"It has been suggested in the columns of the *Sun* that those who contributed to the grill room fund allow their contributions to be used for that purpose. It is probable that most of them will do so.

"That the Association will benefit from the policy outlined above is evidenced by the fact that the membership this year is double that of any previous year at a corresponding date, and by the fact that the number of students enrolled in courses of Bible Study is already nearly double the total enrollment of any one of the past three years."

The University possessed on June 30 last 339,701 volumes and 51,000 pamphlets. The accessions during the year 1906-1907 aggregated 13,116 volumes and 1,500 pamphlets.

Ground has been broken on the northeast corner of Tioga and Buffalo streets for Ithaca's new \$50,000 Y. M. C. A. building.

H. A. Lucker, of Brooklyn, has been elected president of the junior class in the College of Law.

Professor Hiram Corson entered his eightieth year last Wednesday.

Basketball practice is now held daily in the Armory.

BUSY SEASON IN BROOKLYN.

Cornell Association Holds a Dinner and Plans for Various Activities.

The Cornell Association of Brooklyn opened the season on Thursday evening, October 31, with a dinner at the University Club of Brooklyn. Nearly forty members were present, representing a majority of the classes and including members of all the younger classes. Franklin Matthews, '83, the new president, was in charge for the first time. Dr. Herbert D. Schenck, '82, the retiring president, who organized the association, was out of town, attending a medical conference, and missed a meeting for the first time. A feature of the meeting was the singing of Cornell songs, led by S. H. Woods, '06, who was in charge at the piano.

It was reported that \$500 had been collected and sent to Ithaca for the improvement of the Fall Creek Gorge. It was decided to take up the campaign soon for new subscriptions, in order that another installment may be sent in time to have the work well under way by the time of the big reunion next June.

Much enthusiasm was aroused by the announcement that the Cornell Musical Clubs would give a concert in Brooklyn on December 30, and the president appointed a committee to take charge of the local arrangements. The committee consists of John L. Senior, '01, chairman; John O. Dresser, '01, J. Norris Oliphant, '01, Joseph W. Cook, '02, Richardson Webster, '02, Raymond P. Morse, '03, and Robert Burns, '07.

A proposal to have a ladies' night given by the association later in the season was approved, and the executive committee was empowered to make arrangements. The University Club is about to move into much larger quarters, and it was agreed that the ladies' night should be held after the new clubhouse had been occupied. This concluded the business of the meeting.

Indications point to a very active season for Cornellians in Brooklyn. The committee which arranged the

first Cornell dance last year is preparing to hold another dance this season, and perhaps more than one. The dramatic society will be organized on November 15. It will have the services of W. Paul Allen, '05, formerly leading man in the Masque, and several other former members of that organization.

The Thanksgiving Events.

The joint concert to be given by the University of Pennsylvania and Cornell musical clubs at Philadelphia on Wednesday evening, November 27, the night before the football game, will be held in the ballroom of the Bellevue-Stratford. It is proposed, so far as possible, to group the Cornell and the Pennsylvania sections of the audience by themselves. Tickets for the concert will be on sale at the office of the hotel and also at the office of C. D. Ehret, treasurer of the Cornell Club of Philadelphia, 2,118 Land Title building. The Cornell clubs will take about sixty men to Philadelphia.

For the Thanksgiving Day football game, the athletic management will do its best, with the assistance of the Cornell Club of Philadelphia, to assure all alumni who attend the game seats in one of the Cornell sections and to prevent tickets for such seats from falling into the hands of outsiders. Tickets for the game will be on sale at the Cornell clubs of Philadelphia and New York.

Under the auspices of the English Club, the Ben Greet Players will give performances of three of Shakespeare's plays at the Lyceum theater next week. On Tuesday evening, November 19, "Macbeth" will be presented; on the following afternoon, "Romeo and Juliet," and on Wednesday evening, "Much Ado About Nothing."

The Rev. Worth M. Tippy, pastor of the Epworth Methodist Church of Cleveland, O., occupied the pulpit of Sage Chapel last Sunday. Mr. Tippy was a graduate student in philosophy at Cornell from 1891 to 1893.

SOCIETY OF CIVIL ENGINEERS.

Large Additions to Membership of New York Organization.

The Cornell Society of Civil Engineers of New York held its annual meeting on October 15 at the Cornell University Club in West Forty-fifth street. The following officers were elected for the ensuing year:

President, W. H. Stratton, '88.

Vice-president, G. F. Simpson, '79.

Second vice-president, W. S. Edge, '03.

Treasurer, W. M. Torrance, '95.

Recording secretary, Leslie McHarg, '99.

Corresponding secretary, A. H. Higley, '99.

The reports of the treasurer and corresponding secretary showed a very satisfactory financial condition and a steady increase in membership. An amendment to the constitution of the Society, adopted during the past year, permitting Cornell civil engineers not residing in New York city to become members has added substantially to the enrollment. The membership now includes men living in various states and in the West Indies, Mexico and other foreign countries who evidently wish to keep as closely in touch with Cornell as possible.

At a meeting of the executive committee, held at the Cornell Club on October 22, the following men were added to the executive committee: J. B. French, '85, D. H. Dixon, '96, J. H. Edwards, '88, and D. Y. Dimon, '96. The president reappointed the following membership committee: W. M. Torrance, '95, chairman; R. H. Keays, '95, M. A. Rue, '99, and W. J. Darrow, '99.

On October 29 the executive committee held another meeting and decided to arrange for a smoker to be held not later than December 10. The president appointed the following members of a committee to make the necessary arrangements: W. M. Torrance, '95, chairman; J. A. Knighton, '91, and A. B. Lueder, '99.

Notices will be sent soon to all Cornell civil engineers giving the date and place at which the smoker will be held. If anyone who wishes to be present fails to receive a notice he may obtain the information by applying to the corresponding secretary, Mr. Higley, whose address is 504 West 143rd street.

Vant-Jenks.

George H. Vant, formerly a member of the business staff of the ALUMNI NEWS and well known to Cornell graduates of recent years, was married on Wednesday evening, November 6, to Miss Ada Jenks, daughter of Mr. and Mrs. I. W. Jenks, of Pittsburg. The wedding ceremony took place at the home of the bride's parents, 1236 Beechwood boulevard, and was followed by a reception. The bridegroom was attended by John L. Senior, '01, of New York. The ushers included John Vant 3d, of New York, the bridegroom's brother; Walter and Ray Jenks, brothers of the bride, and J. Hanson Rose, '06, of Pittsburg. Mr. and Mrs. Vant will be at home after December 1 at Charleston, W. Va.

President Schurman is now busy arranging the program for the next meeting of the American Universities Association, which meets at Ann Arbor on January 9 and 10. The Association, which is composed of about fifteen of the leading American universities, met last year at Harvard University. President Schurman is the president of the Association this year.

An alternative cast has been selected by Les Cabotins, the undergraduate club of students in French, for the production of the play "Le Voyage de M. Perrichon," which will be presented at the Lyceum theater later in the year. Rehearsals are now taking place.

Dr. Andrew D. White, first president of the University, observed the seventy-fifth anniversary of his birth last Thursday.

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WOODFORD PATTERSON, '95,
Editor.

GEORGE C. PIERCE, '09,
Business Manager.

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THE ELEVEN.

It is a pleasure to express appreciation, not only of the progress shown by the 'varsity football squad in mastering the tactics of the modern game, but of the spirit displayed by the team in refusing to accept defeat and winning a victory in the final moments of last Saturday's contest. This was not the first time a Cornell eleven had shown that spirit of determination, but it deserves praise at any time, and especially when it is displayed in the face of such stubborn opposition as that of the Army eleven. Praise is due to the coaches for both the skill and the spirit shown by the players. There is good reason to believe that, excellent as its work thus far has been, the team has not yet rounded into its best form.

STUDYING FRESH WATER LIFE.

A Station for Research in Limnology Established in the Cayuga Marshes.

An evidence of Cornell University's progress in one of the more advanced lines of scientific inquiry is the establishment of a limnological station in the marshes near the Cayuga Inlet. "Limnology" is a new and unfamiliar term, and is to be found only in the most recent dictionaries. As is indicated by the Greek root, *limnos*, meaning lake or marsh, limnology is a branch of biology dealing with the study of fresh water life, including not only fishes, frogs and other vertebrates but crustaceans and countless microscopic varieties, both plant and animal, down to the lowest algæ. As compared with marine life, the study of fresh water forms has been greatly neglected and, although sporadic attempts have been made to till this field of investigation, and some of the more prominent forms of fresh water life have been studied, it is only within recent years that anything like a distinct systematized science has been evolved. The economic possibilities of such a science are apparent—as, for instance, the settling of the problem of fish forage, which is so immediately connected with the stocking of our ponds, lakes and streams. With seventy-five million acres of marsh lands in our country, of which not more than one-half could possibly be drained, the working out of a system of "water culture" analogous to agriculture on land would be of inestimable economic benefit.

Cornell is the first university to establish a permanent limnological station for research and investigation. There is a station at Sandusky, Ohio, on Lake Erie, but it is open only during the summer and is used solely for instruction. It is the aim of the Cornell Limnological Station to lay a basis of scientific facts by means of experimentation, on which a practical science may be built up. The work is in charge of Professor

James G. Needham, Ph. D., '98, who came here last winter from Lake Forest College, Illinois, where he had been at the head of the biological department for eight years. His work at Cornell will be devoted entirely to limnology, Cornell being the first university to establish a professorship in that science.

Through the generosity of Mr. Jared T. Newman, '75, who has given five acres of marsh land to the University, Professor Needham has obtained a site well adapted to his purpose. It lies at the mouth of Fall Creek, opposite the Cascadilla boat-house, and includes Fall Creek Cove, which, being rich in minute forms of plant and animal life, has always been one of the chief sources for collecting biological specimens.

The building, which was completed this fall, was constructed of material from the old dairy building at the Agricultural College. It is a small two-story structure provided with large porches. The lower story contains the workshop and the boat-house. The upper floor will be used for laboratory purposes, the main room being equipped so as to accommodate students of entomology, vertebrate zoölogy and botany. There are also a dark room and an operating room which will be provided with complete photographic equipment.

Outside, a flowing well has been driven to the depth of 120 feet. This will not only supply drinking water but will furnish the water for "spring pools" where many of the experiments will be carried on. A windmill has been erected, which will pump Fall Creek water to supply "propagation ponds." In the latter, "breeding cages" will be set up, in which Professor Needham will experiment this winter on the propagation of water insects and microscopic crustaceans. Professor Whetzel, of the botanical department, is conducting some interesting experiments with fresh water algæ. Students in ecology will study the common pickerel as a representative type of the fresh water vertebrate, with a view to ascertaining the conditions most favorable to its propagation. An-

other study will be in phenomena of the rotation of fresh water life, that is, the constant change in the character of the minute forms of life, and the extinction and reappearance of the species in cycles of short duration. These are a few of the investigations to be carried on during the coming winter. Next spring facilities will be offered for more elaborate experiments and it is hoped that much valuable scientific information will be collected and systematized.

Upperclass Chairmen.

The presidents of the senior and junior classes have appointed their respective committees. The names of the various chairmen follow: senior ball, Edwin Earle, jr., Detroit, Mich.; senior banquet, C. R. Andrews, Penn Yan; class day, W. T. Burwell, jr., Ithaca; cap and gown, R. G. Baxter, Tonawanda; senior stunt, T. A. Baldwin, Baltimore; junior promenade, W. W. Goetz, Milwaukee; junior smoker, R. E. Coulson, Buffalo; junior feed, F. A. Rice, Brooklyn; ice carnival, W. L. Todd, Rochester. Of the general committee of upperclassmen, the senior chairman is T. M. Jackson, Kennett Square, Pa., and the junior chairman is C. H. Watson, East Orange, N. J.

The issues of the *Journal of Geology* from July to October inclusive contain two articles by Frank Carney, '02, entitled "Pre-Wisconsin Drift in the Finger Lake Region of New York" and "The Scioto-Illinoian Lobe in Licking County, Ohio." Another article by Mr. Carney, "Wave-cut Terraces in Keuka Valley," appeared in the May number of the *American Journal of Science*. Mr. Carney is professor of geology at Denison University, Granville, O.

A vacancy in the Frank William Padgham scholarship in mechanical engineering has been filled by the appointment of George Fred Benson, '09. This scholarship is open to students who were prepared in the public schools of Syracuse.

GLOVES

may be right and not be
Fownes, but they can't be

FOWNES

and not be right.

George K. Woodworth, E. E. '96

(Late Examiner, Electrical Division U. S.
Patent Office)

COUNSELOR AT LAW

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OBITUARY.

A. J. ROGERS, '71.

Augustus James Rogers, who was a member of Cornell's first entering class, died on November 2 at his home in Milwaukee. He had been a teacher in that city since 1875. Mr. Rogers was well known in the scientific world for his researches in electro-chemicals. The results of his work in the production of sodium alloys used in the reduction of aluminum compounds were published in 1889 and received favorable comment from the leading scientific journals both of this country and of Europe, but patents were withheld from him by the Government on technicalities. Practical application of his alloy has been made by another Cornell man, Charles Ernest Acker, '88, in the great works of the Acker Process Company at Niagara Falls.

Mr. Rogers was born in Jefferson county, N. Y., in 1848. He entered Cornell University in 1868, and was graduated in 1871 with the degree of Bachelor of Philosophy. For two years he was principal of the public school at Port Jefferson, L. I., and he then went to Germany for study. He spent a year at Heidelberg under Bunsen and another year at Berlin under Helmholtz. Upon the recommendation of President White he was engaged in 1875 to teach physics, chemistry and mathematics in the Milwaukee High School, now the East Division High School. In 1892 he became principal of this school, and in 1901 he retired as principal and took charge of the department of physics at the South Division High School, a position which he held until his death. He was a frequent contributor to scientific journals.

In 1881 Mr. Rogers married Miss Althea Tooker, of Port Jefferson, who died in 1897. He married in 1902 Miss Jane Passmore, of Milwaukee, who survives him. He leaves also two daughters and a son, who is now a student in the University of Wisconsin.

CORNELL ALUMNI NOTES.

'84, Ph. B.—Henry J. Patten, who for many years has been a member of the firm of Bartlett, Frazier & Carrington, of the Chicago Board of Trade, recently left for an extended trip to Japan and thence home *via* the Trans-Siberian Railway. On his way through Japan he expected to meet in Tokio his classmate Yorinaka Tsumaki, B. Arch., '84, Chief Architect of the Department of Finance of the Imperial Government. Tsumaki has for many years been in charge of extended architectural works of the national bank buildings of Japan, and has an established reputation as an architect in that country.

'85, B. C. E.—C. E. Curtis is professor of mathematics in the State Normal School at Oneonta, N. Y.

'93, M. E.—Frank C. Cosby is manager of the Northeastern sales department of the Standard Underground Cable Company. He lives at 30 Englewood avenue, Brookline, Mass.

'94, Ph. B.—Dr. Adna F. Weber, president of the class of 1894, has resigned his position as chief statistician of the New York State Department of Labor, which he has held for several years, and has accepted the important office of chief statistician of the State Public Service Commission for the district which includes New York city. The change will involve Dr. Weber's removal from Albany to New York.

'96, M. E.—Harry W. Griffin is secretary and treasurer of Taylor, Stiles & Company, manufacturers, Riegelsville, N. J.

'97, M. E.—A daughter was born on September 24 to Mr. and Mrs. Fred H. Hayn, of Washington, D. C. Mr. Hayn is an examiner in the United States Patent Office.

'97, Ph. B.—Miss Elizabeth Meserole Rhodes was married to Mr. Ralph Templeton Cushman Jackson, of Boston, Mass., on October 16 at St. Bartholomew's Church, Brooklyn. The ceremony was performed by the Rev. Robert M. W. Black. Among the Cornellians present were Dr. N. Gilbert Seymour, '97, Dr. Emily Dunning Barringer, '97, Christabel F. Fiske, '98, Anna Mc-

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Clure Sholl, '94, and Martha E. Dodson, '07.

'97, M. E.—E. P. Rowlands is inspector of materials for the Chicago, Burlington & Quincy Railroad at Aurora, Ill.

'99, Ph. B.—R. S. Haynes, secretary of the class of 1899, is practicing medicine at 391 West End avenue, New York.

'99, M. E.—John Walter Prince and Miss Gertrude Baldwin, daughter of Mrs. Stephen Livingston Baldwin, were married in Brooklyn, N. Y., on October 12. The bride's sister, Mrs. Freeborn, wife of F. W. Freeborn, '97, was matron of honor. In the bridal party were Maxwell M. Upson, '99, Howard Geer, '01, and Richard A. Wright, '05. Mr. and Mrs. Prince will make their home at 1200 Linwood boulevard, Kansas City, Mo.

'00.—Raymond D. Starbuck, former captain of the 'varsity eleven, was one of the officials at the Minnesota-Chicago football game at Minneapolis on November 2.

'00, M. E.—F. G. Grimshaw is master mechanic with the West Jersey & Seashore Railroad, and his address is 531 Penn street, Camden, N. J.

'00.—Dr. Henry F. Stoll has changed his address from Hartford, Conn., to Colorado Springs, Colo.

'00, B. S.—Announcement has been made of the engagement of Davis Hawley, jr., to Miss Helen Harshaw, of Cleveland, O. Mr. Hawley is practicing law in Cleveland, with office at 600 Schofield building.

'00, LL. B.—Frederic G. Bodell is a member of the law firm of Parsons, Hall & Bodell, University building, Syracuse, N. Y.

'00, M. E.—Ernest B. Cary's address is 149 East avenue, Lockport, N. Y. He is superintendent of the Empire Manufacturing Company.

'00, A. B.—F. M. Crouch is a member of the junior class in the Episcopal Theological School at Cambridge, Mass.

'01, M. E.—John G. Crawford is fuel engineer with the Chicago, Burlington & Quincy Railroad. His address is Room 50, No. 209 Adams street, Chicago.

'02, A. B.—The address of A. Smith Petty is 309 River avenue, Patchogue, L. I.

'02, M. E.—Henry W. Eells is now at 225 Main street, Brockport, N. Y.

'02, C. E.—A. E. Rommel has removed from Winona, Minn., to 24 North Sophia street, Fond du Lac, Wis.

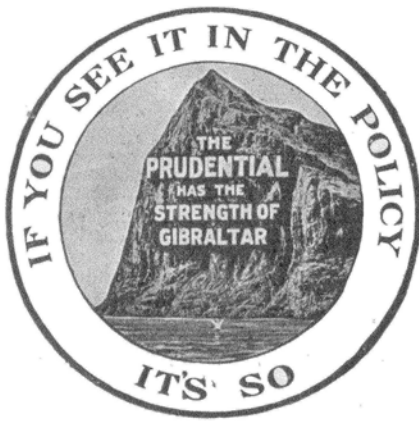
'03, A. B.—At the New York State Conference of Charities and Correction, which is in session at the state capitol in Albany this week, Porter R. Lee, assistant secretary of the Buffalo Charity Organization Society, will read a paper on the subject of the care of the poor in their homes.

'04.—Edward A. Moree, who is now assistant city editor of the *New York Tribune*, has made a hit this

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'04, '05.—Walter H. Kniskern, M. E., '04, and Miss Katharine E. Selden, A. B., '05, were married on September 11 at the bride's home in Catskill, N. Y. Their present address is Hays, Kan.

'04, C. E.—Haines Gridley is a mining engineer at Ophir, Utah. He is engineer for the Ophir Hill Consolidated Mining Company and the Hidden Treasure Mining Company. Sanford B. Hunt, '04, former captain of the 'varsity eleven, is at Ophir assisting him with the surveying and assaying.

'05, C. E.—John E. Elliott is with the American Bridge Company, 42 Broadway, New York.

'05, C. E.—Don E. Andrews, lately with the Continental-Mexican Rubber Company, is now travelling through the Congo valley of West Africa as rubber expert for the American Congo Company. He is in charge of quantitative rubber surveys. In 1908 he will start into the

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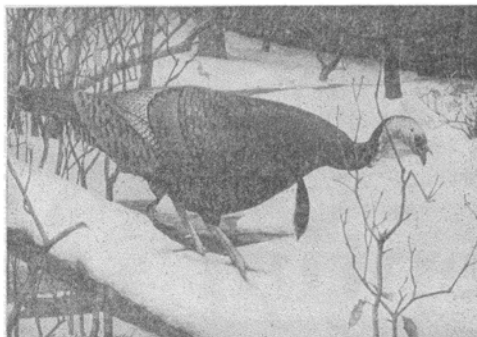
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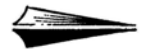


NOVEMBER
Wild Turkey



DECEMBER
Canada Geese

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unexplored country of the Stanley Falls district. His address is in care of the American Congo Company, Leopoldville, West Africa.

'05, M. E.—N. G. Brayer is with the National Malleable Castings Company, of Sharon, Pa.

'05, M. E.—A. D. Brinkerhoff has changed his address from Springfield, Ill., to 817 Austin avenue, Waco, Texas.

'05, A. B.—Stanley D. Brown is a member of the senior class in the College of Law.

'05, M. E.—A. L. Fuller has changed his address from Boston, Mass., to 1515 Arch street, Philadelphia, Pa.

'05, M. E.—Henry J. Porter's address is 515 West 172d street, New York.

'05, M. E.—The marriage of Frederick William Hackstaff, a former member of the 'varsity eleven, and Miss Tacey Margaret Baker, daughter of Mr. Elwood Thomas Baker, of Brooklyn, took place on October 17. They are spending the honeymoon in Europe, and will be at home in Brooklyn after December 6.

'05, C. E.—H. F. Porter, who was a member of the 'varsity track team from 1902 to 1905, after two years' absence from athletics recently became actively interested again, and on October 25, at Madison Square Garden, he won the indoor national championship in the high jump. The jump as recorded was 6 feet 1 1/8 inches. Gidney of the Boston A. C., last year's champion, and Leahy, who is champion of Great Britain and has twice won the Olympic and world's championships, were among the competitors.

'06, LL. B.—C. F. Alliaume has removed from New York city to Utica, N. Y. His address is 90 Arcade.

'06, M. E.—Carl W. Boegehold and P. W. Kinney have been trans-

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ferred from the Hartford, Conn., shops to the New York office of the Niles-Bement-Pond Company. The address of the former is 120 North Sixth avenue, Mount Vernon, N. Y.

'06, C. E.—P. L. Pierce has changed his address to 23 West Sixty-fifth street, New York.

'06, C. E.—Alfred J. Edge is with the investigation department of the Continental-Mexican Rubber Company, and his address is Hacienda de Cedros, Mazapil, Zacatecas, Mexico.

'06, M. E.—Charles M. De Ved is travelling through the central states for the Electrical Inspection Bureau. His permanent (forwarding) address is 125 Monroe street, Chicago.

'06, A. B.—Miss Helen Coffin is a library assistant in the legislative reference room of the New York State Library. Her address is 117 South Lake street, Albany.

'06, M. E.—W. H. Yates has changed his address from Norwood, O., to the Du Casse, Hale and Reading Road, Cincinnati. He is with the Bullock Electric Manufacturing Company.

'06, A. B.—Frederick L. Nussbaum is teaching in the provincial high school at San Fernando, La Union, P. I.

'07, M. E.—William R. Wigley is with the Iroquois Iron Works, of Buffalo. His address in that city is 82 Johnson's Park.

'07, A. B.—Harold J. Roig, a member of the 'varsity debate team last year, has entered the Columbia Law School. His address is 213 Livingston hall, Columbia University, New York.

'07, A. B.—Francis K. Raynor is instructor in mathematics and science in the high school at Caldwell, N. J.

'07, M. E.—The address of E. F. Britten, jr., is 71 Astor place, Jersey City, N. J.

'07, A. B.—Clarence Kimball is a student at the Harvard Law School. His address is 57 Brattle street, Cambridge, Mass.

'07, C. E.—Conflicting notes were published about G. A. Stanton in this department last week. His present address is in care of the United States Coast and Geodetic Survey, Washington, D. C.

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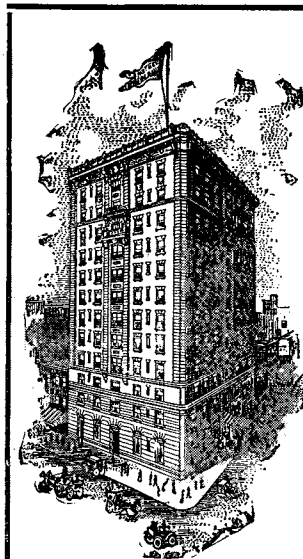
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