

Fall 11-20-1906

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THE MAINE CAMPUS

Vol. VIII

ORONO, MAINE, NOVEMBER 20, 1906

No. 8

ELECTRICITY IN THE NAVY.

Before one hundred members of the Mechanical and Electrical Society, W. L. Merrill, '00, delivered an illustrated lecture on "Electricity in the Navy." Mr. Merrill is connected with the Power, Mining and Navy Department of the General Electric Co. at their Schenectady, N. Y., plant.

Preliminary to taking up the specific applications of electricity in naval warfare, the speaker mentioned some of the recent improvements in this line such as the use of smokeless powder, the turbine torpedo. Above all he emphasized the increase in the marksmanship and in the efficiency of the gun.

Leaving this, Mr. Merrill went on to the general subject, and the substance of his remarks was as follows:

Electrical appliances on shipboard may be classified as those used in (a) Power and Lighting, and in (b) Interior Communication. As a discussion of the latter division would in itself occupy an entire evening it was left to some future time. However, there are more lights used in Interior Communication than in the entire number used for lighting alone. This merely gives some idea of the importance of the second division.

Motors and other electrical apparatus designed for use on battleships are distinctly different along certain lines from those designed for use on land. Their bolts, nuts, etc., must be of some non-corrosive substance such as Tobin bronze or brass. Deck motors must be totally water tight. This condition is obtained by using rubber gaskets under the hand hole covers. Motors having oil well bearings, necessitate the use of small stuffing boxes at each end of the shaft, to prevent leakage of oil in rough weather. These are but examples of some of the additional requirements which have to be taken into

account in designing marine electrical machinery.

The first application of electricity on board a battleship was an arc light installed on a vessel in 1889. In 1892, still further use was made of it in ammunition hoists. The Kearsarge and Kentucky were, in 1897, completely equipped electrically. Since that time devices have been perfected until now almost all operations on board ship are done electrically, supplanting the use of steam and compressed air formally used. The reason for this rapid transformation was due to the simplicity of the electrical apparatus, its efficiency, ease of control and the increase in speed of performing operations.

The electrical equipment of the Kearsarge included 7-50 k. w. generators, 831-16 c. p. incandescent lamps, and 59 motors aggregating 815 h. p. Compare with this the equipment of the new U. S. S. New Hampshire which includes 8 generators of 100 k. w. each, 1150-16 c. p. incandescent lamps.

In place of the eight generators mentioned above on what are to be the two largest ships in the navy when built, there are two turbines specified.

In these last two ships there are to be two generating rooms with two sub-stations for each room. From each sub-station the circuits from both generating rooms can be controlled. This is thought necessary as a precaution against conditions arising from any generating room being destroyed. There are thus four distinct controlling rooms for power in the ship.

One very noticeable feature in these rooms is the switchboard. Owing to the congested conditions on a battleship everything must be compressed in as small a space as possible. (Two slides showing back and front views of such a panel gave a very clear idea of this congestion.)

The operation and control of the projectors or searchlights is an interesting phase of using

electric energy. The 30 inch projectors are located on the masts, fore and aft. Above the smaller light on the foremast is placed the large 60 inch projector. These are operated by motors in the base, and are controlled by one handle which swings or raises the beam of light at the will of the operator. One projector is arranged for using the "wigwag" system at night. By means of a chain the operator can transmit messages according to a fixed code.

Night signalling is also done by means of lights on each side of the ship. Different combinations for different letters are obtained by means of a keyboard similar to a typewriter. This system is in use at present on all vessels of our navy. Wireless telegraphy bids fair to succeed it but the present instruments will be kept as auxiliaries.

A very important part of a ship's equipment is its ventilation apparatus. Constant speed motors are used to drive fans which draw pure air from outside and expel the foul air. By making these motors self-ventilating much smaller ones can be used.

The only way to divide up marine electrical apparatus is by means of its control. Thus motors are made series, shunt, or compound, according to the conditions they must fulfil. For example series motors are used for boat hoists because they especially fulfill the conditions of such service. They operate through a worm gear, and a brake similar in principle to the magnetic clutch is put on one end of the shaft. These brakes differ in that when no current is on a spring actuates the brakes and when the current is turned on the magnetic force acts against this spring, releasing the brake. This brake is used to prevent accidents when lowering boatloads of men over the side of the ship. Two motors are used which, acting separately, either rotate or lower the boats at the will of the operator.

Similar motors, similarly controlled, operate the ammunition hoists. These are of two kinds, the whip and endless chain. The former merely raises the ammunition by means of a rope. The latter variety is operated on an endless chain on which are receptacles for the shells.

Electric motors play an important part in the firing of the big guns. The aiming of the guns is done by motors which give both a sideways and an up and down motion. The rotating of the turrets must be at a high speed when firing at vessels going in the opposite direction, and at a slow speed when firing at those going in the same direction. By means of two motors in series, the high speed rotating motion is made as high as 360° in one minute and the low speed as low as 360° in one hour. The shot is rammed into place by power furnished from a small motor in the base of the gun.

All controllers are so arranged that the direction in which one moves the handles give the same resulting motion of the object to be moved. Thus the controller of the shot ramming motor is reciprocating and handles controlling boat hoist motors are moved up if it is desired to raise the boat up or down if vice versa. This obviates much of the danger resulting from excitement or lack of knowledge. The strenuous and many times unnatural conditions require the most efficient systems of control.

Motor generator sets on a warship are semi-enclosed, self-ventilated and are placed in the driest, safest places possible. They are practically continuous running.

The compartments directly adjacent to the hull and below the water line are made water tight. In case the ship is penetrated below the water line all doors of these compartments can be closed by throwing a single switch. It is so arranged inside that a man imprisoned thus can work his way out by means of switches controlling the individual motors operating each door. Upon his exit through one door it automatically falls into place again. These doors cannot be opened until orders are given for opening them separately by hand.

Wiring on vessels is all done in armored conduit. The switches, circuit-breakers, fuse blocks, etc., are all enclosed in water tight boxes. Everything must be as compact as possible, weigh as little and be proof against water and corrosion.

Mr. Merrill gave an idea of some of the methods of control in use. The slides shown were

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all first class and amply illustrated his subject.

Preliminary to the lecture a business meeting was held at which the following officers and committees were elected :

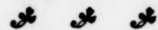
President, J. Jacobs, '08.

Vice Pres., J. H. Gannett, '08.

Sec.-treas., J. P. Farnsworth, '08.

1908 Ex. Com. Member, F. P. Emery, '08.

Program Com., P. I. Robinson, '08, F. C. Morton, '08.



A COMMUNICATION.

STATION OF AMES, IOWA, Nov. 9, 1906.
MANAGING EDITOR CAMPUS:

I feel at this time that a little should be said in regard to the spirit shown in the intercollegiate contest taking place in the East and West. By the spirit I mean the conduct of the different student bodies at these contests and the courtesies shown by the home student body to that of the visiting teams.

It was my pleasure, recently, to witness a contest between two of the larger colleges of the West, the University of Nebraska and Iowa State College. The thing that seemed to go against both of these colleges was the attitude toward one another.

When the visiting team came on the field, there was no cheer offered them by the home student body and the remarks that passed through the bleachers were very insulting, and far from words that ought to issue from a gentleman's mouth. The remarks that were sent to the visiting team's substitutes, who were seated in front of the opponents' bleachers, were disgusting to any one but a "mucker."

Only once during the game did I hear a cheer given for an opponent and that was given by the visitors for a home player who was taken out of the game on account of injuries.

During the game, if a "dirty tackle" was made, you could hear cries of "kill him," "take him out" and other remarks unbecoming any student body.

After the game, which was won by the Iowa State College, the student body from I. S. C., headed by their band, paraded the streets of Lincoln, and during the parade the losers would snatch penants and sleeve bands from the victors with the result that several street fights ensued.

If this is true sportsmanlike and gentlemanly conduct, I hope Maine will never become sportsmen but remain as they are.

After I had thought this matter over I was more than proud to think that I was a graduate from a college (even though small compared to western colleges) where the students were gentlemenly and where the courtesies offered the visiting teams and student bodies were the best that could be offered.

It is up to you, men of Maine, to see that this spirit of courtesy is kept up throughout all our contests with other colleges. Do not cease to be gentlemen whatever comes up, and let Maine have the reputation of producing clean sportsmen and true gentlemen.

Respectfully,

ROY H. PORTER, '06.

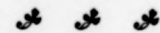
EDITOR'S NOTE: We are especially pleased at being able to publish a letter of this kind, and hope the student body here at Maine will note its broad significance. Mr. Porter was captain of last year's track team here at the University.



PROF. SPRAGUE'S INVESTIGATION OF TAXATION.

When the coming legislature convenes one question which will probably be discussed to quite an extent will be that of taxation. There is evident to economists a need of reform in taxation here in Maine as well as throughout America. Prof. Sprague who has made an extensive research along this line purposes to publish a series of articles in regard to the present conditions of taxation. One will be a discussion of the general problems and the systems of taxation in Europe. Another will be on the general property tax of America. A third one will discuss the problem of Taxation here in the State of Maine.

Prof. Sprague has investigated matters pertaining to taxation not only in our own country but in Europe, especially in Germany, France, England and Switzerland and his views on the subject will undoubtedly be of much value.



It was announced Oct. 31, that a full professor of lumbering will be appointed at Yale as soon as an endowment fund of \$150,000 is raised by the National Lumbering Manufacturers' Association for a chair of practical lumbering at the Forest School of the university.

THE MAINE CAMPUS

Published on Tuesday of each week during the college year by the students of the University of Maine.

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Address all business communications and make all checks payable to R. S. Coffin, Business Manager, Orono, Me.

Contributions from undergraduates and alumni are earnestly solicited. They should be addressed to the Managing Editor.

BANGOR CO-OPERATIVE PRINTING COMPANY

EDITORIALS

Our football heroes now rest on their well earned honors. Congratulations to all who have in any way, great or small, advanced the name of Maine, on the gridiron, this fall.

Now for basketball and hockey. Basketball has a firm standing in our list of athletics, but how about hockey? Can't we build a rink before the ground freezes? If not, why not?

It is an unfortunate state of circumstances that requires the battalion drill to be held in the gymnasium. This is, however, necessitated by

lack of a special drill hall. This is a necessary violation of the rule,—“Students Must Wear Rubber Soled Shoes When on the Gymnasium Floor.” There are, however, many violations of this rule this year, which are uncalled for, such as a crowd playing basketball just before chapel or indulging in amusement by swinging on the climbing poles and digging their heels into the floor. In view of the increased use of the gymnasium this year, these things should not be. It is a matter of health also, for a great deal of dust is brought in the Gymnasium in this way which is disagreeable for the basketball men and all others who use the gymnasium. Also it does not improve the floor for dancing. If these little but important things are not corrected, it will become necessary to close the “gym” except at specified times. Let us all, then, work for our own good and the good of others, by observing the rule, copies of which are posted in conspicuous places in the “gym.”

At a recent meeting of the trustees of the University, the question of our coming appropriation from the Legislature was considered.

Trustees Meeting

While no definite amount was decided upon, the final agreement deserves a consideration.

The next Legislature will be asked to grant to their State University, not an unreasonable amount, as has been suggested by some unacquainted with the real needs of the University, but a sum equal to that granted by other states, of no greater wealth than Maine, to their state universities.

As the University of Maine is one of the most valuable acquisitions of the state, turning out each year, as she does, men who are winning

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fame as farmers, engineers, or lawyers, as well as many other professions, can we believe that such an urgent and necessary request will be refused? Gentlemen of the Legislature, we, as students of your University, have placed our hopes and future in your hands. Much of our future advancement, then, depends upon your decision. At present, we live in hope.



If we ask the question, "Is the true Maine spirit dead?" who in college would say "yes." Doubtless any one would say, "Did you not see it exhibited in the **Maine Spirit** chapel a few nights ago? If you did not you missed a treat." But when we turn to the literary side of our college life where is that spirit that awoke the echoes and made the rafters ring in the old chapel two nights before the game with Holy Cross, that backed the team in its hard fought game at Portland, the spirit that is always present when Maine fights for the honors of the gridiron?

Does College spirit apply only to athletics? We may ask, "What is true College spirit?" It must be, at least, an intense interest in all affairs of the student body, representing the College itself.

This being the case, no one with true College spirit will neglect, even at the expense of some personal denial, any college activity to which he might be an aid. For whether it be in a game of football, in the contributions to the *Blue Book*, or in an intercollegiate debate, the college is generally conceded to be represented by the best it contains.

As regards athletics there need be little worrying about the condition of Maine spirit, but in the Literati and the Debating Club we find it shamefully neglected. The former, dealing with Art, Music and the Drama, represents the appre-

ciation of the student body of the Cultured and beautiful in life. The latter in its intercollegiate debates represents, to the outside world, the ability of the students to think and to say what they think.

It has been said too many times, even if only once, that Maine is prouder of her brawn than of her brain.

Do we want the B. A. degree conferred in Maine? Do the students in the college of technology realize its significance and value to the University?

Indeed it is high time to wake up. If there is any appreciation of the culture and education that we can get, beyond the mere acquiring of a profession, turn out, and show it. If not, well,—it is a shame to say only, "It is too bad."

A STUDENT, '09.

The above article was written for the English Department, and seems to have a place in the CAMPUS, as a representative sentiment of the student body at large.

EDITOR.



AN INTERESTING LECTURE BY MR. JUSTICE EMERY IN THE U. OF M. LAW SCHOOL.

Mr. Justice L. A. Emery gave his lecture on "Law Courts I Have Visited," in the Law School on Tuesday afternoon. He dealt with the law courts in Rome, Naples and Perugia, describing in a vivid and impressive way the manners and customs of Italian judges, lawyers and witnesses. In Perugia he was told of a rich Erurian merchant who had a case in court, but was compelled to leave before judgment was rendered. He requested his lawyer to telephone him the result, and when he received his lawyer's message saying, "The right has triumphed," he wired back saying: "Appeal at once." The lecturer then took his audience to France, through the Palace of Justice, The Court of Cassation, etc., and then proceeded to describe the English courts, the London Police court, the Old Bailey, the new Law Court in Fleet street

and the Court of Appeals. The House of Lords and the Privy Council were not in session during the lecturer's stay in London, and these were but briefly referred to by him. The law libraries in Rome and Venice were described, and their dearth in common law treatises and the almost complete absence of English and American periodicals pointed to their ignorance of and indifference to our system of law.

The most interesting part of the lecture was the description of the experience of Judge Emery in the registry of deeds in the various law courts of Jerusalem, and his meeting with the Turkish judge of the Civil Court there, from whose decision appeal lies to the Court of Damascus.

The entire lecture from start to finish was one of interest, and every available seat in the lecture room was occupied. It was an occasion thoroughly enjoyed by the students and citizens in attendance.

NOTES.

The Assembly held its regular meeting on last Friday evening. The question debated was, "Resolved, That the Law School should be removed to Orono."

Affirmative, J. B. Clark, O. H. Emery.

Negative, O. S. Farnsworth, T. W. Thwing.

The judges decided the question on the merits of the argument in favor of the negative.

The balance of the evening was devoted to discussing the coming criminal trial, the assignment of parts and comments as to how the case should be tried.

The following men have been pledged by Sigma Beta Pi:

Albert E. Anderson, Portland, Me.; Bernard Archibald, Houlton, Me.; Edward W. Bridgham, Brighton, Me.; Thomas F. Gallagher, Bangor, Me.; J. F. Kiernan, Wareham, Mass.; Roy Morrison, Saco, Me.; Thomas A. Sanders, Sanguerville, Me.; Ernest L. Seavey, Caribou, Me.; Chris. Toole, Jr., Bangor.

Alpha Epsilon Rho—W. L. F. Mason, Monroe, Me.; H. D. Pendleton, Islesboro, Me.

PRIZES FOR ECONOMIC ESSAYS.

Our readers may be interested to know that Messrs. Hart, Schaffner & Marx, of Chicago, have offered through a competent committee some very large prizes for the best essays on economic subjects. For a third time, a first prize of \$1,000, and a second prize of \$500, are offered to graduate students; and to undergraduates, a first prize of \$300 and a second prize of \$150. These papers must be sent in by June 1, 1907, to Prof. J. Laurence Laughlin, University of Chicago. The subjects assigned are as follows:

1. The practical wisdom of freeing raw materials, essential to subsequent manufactures, from customs-duties when entering the United States.
2. The best method of obtaining an elastic currency in times of panic.
3. To what extent, and in what form, are socialistic tenets held in the United States?
4. In what respect and, to what extent, have combinations among American railways limited or modified the influence of competition?
5. The best methods of avoiding resort to force by labor unions in their contests with employers.
6. The effect of "trusts" upon the prices of goods produced by them.
7. How far does the earning power of skill obtain under a regime of trade unions?
8. A critical study of modern commercial methods for distributing products to consumers.
9. The development of economic theory since John Stuart Mill.

For the honor of the institution, as well as for the distinction to the winner, many students ought to enter into such a contest. For two years past, the same prizes have been assigned. The committee in charge is composed of Professor J. Laurence Laughlin, University of Chicago, chairman; Prof. J. B. Clark, Columbia University; Professor Henry C. Adams, University of Michigan; Hon. Horace White, New York City; Hon. Carroll D. Wright, president of Clark College.

UNIVERSITY DEBATING SOCIETY.

The regular meeting of the Debating Society was held in the Art Guild, Thursday evening, Nov. 8, 1906. It was pleasing to note the presence of President D. Chase, who has been absent a few weeks. Twelve new men were voted into membership. Challenges were received from Bates and Colby for an intercollegiate debate but final action was deferred until next meeting. Messrs. Rounds, Mason and Mitchell, were appointed as the Executive Committee. H. M. Ellis, '08, resigned as Secretary and Treasurer of the Society and Redman, '10, was elected to the vacancy.

Then followed the debate, the question being, Resolved, that the State Legislature should restrict the University of Maine to a College of Agriculture and Mechanical Arts. The subject was most ably handled by both sides, the negative winning.

It's a shame that the whole student body did not hear this question discussed, for it is of vital interest to the University's advancement. Both sides strongly emphasized this point and all present agreed that a strong plea must be made to the state for better financial support.



THE PRESS CLUB.

There is hardly a center of population in this state but what has at least one newspaper. Every section of the state is represented at the University by students and does it not seem right that these papers should have the opportunity of printing news in regard to the institution and the students that represent their section? There is scarcely a weekly paper in the state but what would be glad to print all of the University notes that pertain in any way to the students from their vicinity. In consideration of this fact can we as loyal "Maine" men let this opportunity slip by of keeping the public of the State of Maine in touch with its State University? There are many friends and relatives at home that are anxious to hear about the university and students with whom they are acquainted. If all the papers in the state could print each week news items from "Maine," it would be the best possible means of advertising.

The Press Club is composed of students that are correspondents for papers. It meets every Saturday morning at eleven o'clock in Coburn Hall and all the news items of the University are given out. The students may receive credit in their college course by taking up this work, the only requirements being that they average three hundred words a week and hand copies of their writing in to the English department to receive the credit for their work. The course is known as Journalism and counts as a one hour credit. It may be substituted for Sophomore themes.

In view of the fact that students can receive credit in their course for this work and can accomplish a great deal for their institution, it is certainly their duty, your duty, to take up this important work of the Press Club.



WATER POWER DEVELOPMENT IN MAINE

The use of water power in the State of Maine has been and always will be a stimulus to her manufacturing and other allied industries.

The investigation of the main waterways of the state, the Kennebec, the Androscoggin, and the Penobscot rivers, has been undertaken in a very thorough manner by the United States Geological Survey in co-operation with the State Survey Commission. A complete survey and study of the water powers of the Kennebec river has been made, a similar work on the Androscoggin river will be finished this fall, and the Penobscot river, with the exception of the East Branch, has been gone over in the same thorough manner.

During the past summer, Mr. Harold S. Boardman, professor of Civil Engineering in the University, was in charge of a party which ran a double rodged line of levels from the head of Chesuncook Lake to a U. S. G. S. tablet on North Twin Lake dam. This line of levels, about fifty-four miles in length, connected on one end with a similar line which had been run up the main river to Medway. On the other end it is connected with a line previously run up the Kennebec river to Moosehead lake. At intervals of from three to five miles along the

course, aluminum tablets for bench marks were firmly imbedded in the ledges. Between these points other elevations were marked on rocks with white paint. The fall of the river was obtained for the entire distance. Contours were taken of the river bank for four or five hundred feet back from the water's edge. From the data collected a profile and plan is to be made of the West Branch from the foot of Chesuncook Lake to the Lower Lakes. Upon this work will be based the work of the Topographical Survey when in the future it maps that section of the state.

In addition to making the survey, the available water powers along the river were located and studied. It was found that a large amount of power could be developed to advantage in this region provided it ever became settled. At present the Great Northern Paper Company controls most of the water privileges along the West Branch.

During the summer, Prof. Lee of Bowdoin, chairman of the State Survey Commission, and H. K. Barrows, U. S. G. S., engineer in charge of New England, both spent a week in Prof. Boardman's camps. During this visit some very interesting observations were taken on Mt. Katahdin. It is expected that the calculations of the height of the mountain obtained from these observations will be the most accurate ever computed. The exact figures have not yet been published.

The general result of the summer's work of this party will be published in the reports of the U. S. G. Survey in about a year.

It is interesting to note that this region around Mt. Katahdin through which the party worked is the section under discussion at present as to whether or not it shall be set aside as a game preserve and as timber land for forestry experiments.

Besides Prof. Boardman, the party consisted of two members of the faculty and two students of the University, together with a man who acted as guide and canoeman. The members of the faculty mentioned were Mr. Grover and Mr. Gunn. The two students were H. C. Stetson and A. T. Barrows, '07. The party, al-

though working hard, spent an altogether enjoyable summer.

This was Prof. Boardman's second summer on U. S. G. S. work in this state. During the summer of 1905 he was engaged in the same work along the Androscoggin river. He also has spent four years on general river hydraulic work. Very recently within the past month, the Survey sent him up into the Chamberlain Lake region to investigate the country from that lake to Grindstone along the East Branch of the Penobscot. The purpose of this trip was to make an estimate of the cost of the survey along this branch of the river in order to make the survey of the entire river complete.

Whether or not this work is carried out during the summer of 1907 depends upon the appropriation made by the coming state legislature. The state defrays one-half the expense of this work, the other half being covered by a national appropriation.



CONCERT BY UNIVERSITY ORCHESTRA.

The first event of the year will be a concert by the University Orchestra, next Friday evening at 8 o'clock, in the chapel. The following program has been arranged:

1. March, *The Night Before*.....
ORCHESTRA.
2. *On the Riviera*.....
ORCHESTRA.
3. Cello Solo, *Selected*.....
MR. J. MAXWELL.
4. *The Roses Honeymoon*.....
ORCHESTRA.
5. Trombone Solo, *Selected*.....
MR. ANDREWS.
6. *Stilt Dance*.....
ORCHESTRA.
7. Reading
MR. R. FELLOWS.
8. Violin Solo.....
MR. M. NEWMAN.
9. *Selections from Mlle. Modiste*.....
ORCHESTRA.

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BATES AND MAINE PLAY TIE GAME.

Maine made a decided slump in the game played with Bates in Lewiston, Nov. 10, while Bates played with confidence, dash, snap and consistency she always shows on Garcelon field. Maine's defence was better than her attack, or she would have been badly beaten.

Her plays appeared slow indeed compared with the bewildering swiftness with which the garnet got in motion. There appeared to be little or none of the team-work in which the eleven has been well drilled and anything like good interference formations were rare indeed.

Maine was never in striking distance of the Bates goal while at least three times a little good luck in place kicking or a successful end run would have won Bates the championship.

It was new football in the sense of few or no mass-plays and pile-ups. Although there was plenty of line-bucking, tackle plays, forward passing, end runs, onside kicks, trick plays and punts. There was no blood and carnage, no disputed decisions and few penalties.

There was a succession of brilliant individual plays, sensational tackles, and the continual happening of the unexpected. The only incident to mar the game was when an intoxicated individual on the side-lines tripped Higgins who had a good start on an end run. The drunk was promptly squelched by the police.

Higgins was the star performer for Maine. He appeared to be in every play. He was the surest ground gainer and the strongest man on the defence. Matheas and Talbot and Smith made some good tackles. Swift wormed through some narrow places. Hodgins did not appear to have his usual head of steam or failed to find as big holes as usual, although he made some good gains.

As to the Bates team, there did not appear to be a weak place. Every man was on his toes and playing for every ounce in him. The backs got away lively and appeared to have an unlimited stock of plays and formations.

Maine's most creditable showing was in the defence and time and again a quick and hard tackle smothered a promising Bates scheme.

THE GAME

Maine kicked off, Higgins sending a hard one to Cummings who made a good pick-up and gained a few yards. Bates was lined up in a moment and Wight with good interference tore off 12 yards around Maine's right end before Metcalf could dive in and upset the combination. Cobb tried a quarterback run but it was a failure, Smith tackling him for a loss.

Bates then tried a double pass, Schumacker and Cummings working it well, but the little end was stopped after making 8 yards. Capt. Schumacker kicked to Miner after trying to advance the ball, Higgins punted, and after a loss Bates punted to Maine. Swift and Higgins made several good gains, and it looked like first down, when Maine was sent back 15 yards for holding.

Miner tried a quarterback run but Cummings got him on a lightning tackle behind the line and Higgins punted to Maine's 45-yard line, Metcalf downing Cobb in his tracks. After Hull made a slight gain and Manning failed Cobb got off a hard quick punt almost to Maine's goal line.

Miner was only two yards from his own goal when downed, a narrow escape from a safety. Here was one of the most exciting periods. A blunder would be fatal to Maine and the spectators went wild with frantic yells for a touchdown from the Bates side and the "Hold 'em, Maine," from the other side of the field.

Maine tried the line without much effect.

Two line plunges netted but three yards and Higgins booted the ball to his 30-yard line where Wight heeled for a fair catch but juggled the ball.

With the ball scarcely more than 20 yards from the line and squarely in front of the goal posts, Schumacker tried a place kick.

It was a very poor try; the ball barely cleared the scrimmage line, being knocked down by a Maine back and luckily recovered by Miner, on Maine's 12-yard line.

The rest of the half was played in Maine's territory, the ball passing back and forward.

Maine tried an onside kick and Ricker fell on the ball. Cummings took the ball on a delayed pass and advanced five yards, the ball being on

Maine's 45-yard line when time was called.

SECOND HALF

Schumacker kicked off to Miner who made seven yards, being downed on his 20-yard line, Manning making the tackle. Hodgins was plunged in between right guard and tackle for several, Swift made two and Hodgins two more, netting a first down. Brown broke through on the next scrimmage and nailed Higgins for a seven yard loss. Swift was downed on a delayed pass, the ball being on the 25-yard line when Higgins punted to Cobb on the 43-yard line.

Wright and Fraser advanced the ball to Maine's 20-yard line. Fraser made a long run two-thirds across the field, but it netted only a yard. Fraser was sent back to try for a goal from placement. It was no better than Schumacker's had been in the first half, Higgins catching the sphere on the bound on his 20-yard line. Higgins punted to Cobb who passed the ball to Fraser as he was about to be tackled, a 15-yard gain being recorded. Bates fumbled on the first scrimmage and a Maine man secured the ball.

Higgins made six and Hodgins one and then Maine fumbled, little Cummings, who was playing a wonderful game, falling on the ball. Fraser couldn't gain and the forward pass was thwarted by Higgins.

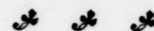
The ball was worked back and forth for several plays, the ball gradually working towards Maine's goal. Quint replaced Higgins and a little later Vickery went in for Swift.

Bates was just getting ready to try a goal from placement when time was called.

The line-up and summary :

<p>BATES Brown, l e Foster, l t Ricker, l g Cochrane, c Booker r g Schumacker, r t Cummings, r e Cobb, q b Hull, l h b Fraser, l h b Wight, r h b Manning, f b</p>	<p>MAINE r e, Metcalf r t, Matheas r g, Ray c, Rounds l g, Talbot l t, Smith l e, Burleigh q b, Miner r h b, Swift r h b, Vickery l h b, } Higgins Quint f b, Hodgins</p>
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Umpire, O'Connell of Boston. Referee, McCreadie of Portland. Linesman, W. C. Hill of Lewiston. Assistant linesmen, Chas. Allen, Bates '03, and Wilds of Maine. Timers, George McCarthy of Lewiston and Totman of Maine. Time, 30 and 20 minute halves.



STATISTICS OF THE FOOTBALL SQUAD.

	Position.	Class.	Weight.	Age.	Prep School.
Burleigh,	l. e.	'07	142	23	Berwick Academy
Smith,	l. t.	'08	179	21	Thornton Academy
Talbot,	l. g.	'07	185	23	Hebron Academy
Rounds,	c.	'07	168	22	Bridgton High School
Ray,	r. g.	'09	182	20	Sabattus High School
Matheas,	r. t.	'08	165	24	Bangor High School
Metcalf,	r. e.	'10	162	21	Cony High School
Miner,	q. b.	'08	147	22	Haverhill High School
Higgins,	l. h. b.	'09	162	20	Somerville H. S.
Farwell,	f. b.	'09	178	20	Mechanic Arts H. S.
Swift,	r. h. b.	'07	144	21	Norway High School
Hodgins,	f. b.	'09	166	21	Bangor High School
Quint,	l. h. b.	'07	152	22	Sanford High School
Bigney,	t.	'10	166	23	Foxcroft Academy
Cook,	l. e.	'10	151	19	Waterville H. S.
Clifford,	l. t.	'10	156	19	Orono High School
Cummings,	l. g.	'08	159	19	Gorham High School
Chase, W. M.,	c.	'10	214	18	Bangor High School
White,	r. g.	'09	165	21	Lynn High School
Pike,	r. t.	'09	163	19	Nute High School
Sawyer,	q. b.	'08	133	21	Hebron Academy
Stinchfield,	q. b.	'10	138	21	Hebron Academy
Chase, D.,	h. b.	'08	156	20	Hebron Academy
Simmons,	f. b.	'09	161	21	Rockland High School
Brimmer,	r. h. b.	'09	149	21	Bangor High School
Vickery,	r. h. b.	'08	152	20	Maine Central Institute
Fulton,	q. b.	'10	132	21	Ricker Institute
Crabtree,	r. t.	'10	153	81	Fryeburg Academy
Dyer,	r. e.	'10	126	19	Calais High School
Gardner,	f. b.	'10	153	18	Washington Academy
Ham,	l. t.	'09	162	19	Livermore Falls H. S.
Schoppe,	r. e.	'07	154	23	Hebron Academy
Seavey,	c.	'09	199	26	Boston English H. S.
Boyle,	e. or h. b.	'08	144	21	Foxcroft Academy
Anderson,	l. t.	'09	162	21	Portland High School



The management of the Columbia basketball team is planning a western trip of about ten days during the Christmas vacation. It is hoped that games may be arranged with University of Chicago, University of Wisconsin, and several Y. M. C. A. teams.

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SUB. COMMITTEES FOR ATHLETIC ASSOCIATION.

At the regular meeting of the executive committee of the Athletic Association held on Nov. 11th, upon the recommendation of the nominating committee, consisting of Prof. H. L. Boardman, Mr. A. T. Barrows and Mr. J. A. Gannett, the following men were elected to serve on the sub-committees:

Football — Philbrook, E. W., Burleigh, A. H., Jones, Mr. R. K., Rounds, A. P., Bird, Mr. A. L., (Rockland.)

Baseball — Gordon, H. L., Miner, H. L., Jones, Mr. R. K., Smith, G. L., Palmer, Mr. (Orono.)

Track — St. Onge, W. J., Sturtevant, M. P., Reynolds, Dr. P. L., Barrows, A. T., Thompson, Mr. G. A., (Orono.)

Basketball — Totman, A. W., Stuart, G. A., Reynolds, Dr. P. T., Talbot, R. F., Bird, Mr. A. L., (Rockland.)

Tennis — Mitchell, R. L., Reynolds, Dr. P. L., Hayward, G. E., Captain of Team, Palmer, Mr. (Orono.)

Grounds — Boardman, Prof. H. S., Gannett, J. A., Shute, Mr. H. M., Bruce, H. P., Thompson, Mr. G. A., (Orono.)

Finance — Boardman, Prof. H. S., Shute, Mr. H. M., Hall, H. H., Cram, E. W.

A petition of fifty-six names requesting financial aid, for the building of a hockey rink, was received by the Athletic Association, and a committee of three was appointed to confer with those interested in hockey. There is but little doubt that the hockey team will receive every aid to make it a success.



INDIAN CORN AS FOOD FOR MAN.

As a food for man, wheat must forever retain the preeminence which it has so long held. But man craves variety and should make generous use of the other cereal foods which a beneficent nature has placed within his reach. Of the half dozen cereals now generally cultivated in this country corn easily ranks second. The experience of our early colonists demonstrated the excellence of this cereal and even its ability

under necessity to replace wheat. Now that the latter grain is so universally grown, there seems to be a disposition to eat less and less corn. This tendency is probably due in part to the wide spread belief that corn is much less easily digested than wheat. There is reason for believing that corn when properly cooked, is not far from wheat in this respect.

A series of experiments recently made at the Maine Agricultural Experiment Station furnish evidence in favor of corn. While this cereal is not in itself as complete a food as wheat, it may be so combined with other foods as to maintain the proper balance between the food constituents.

Bulletin No. 131 just published by the Station contains analyses of corn meal food, accounts of the experiments mentioned, and a general discussion of the subject. Copies of this Bulletin will be sent free to any resident of Maine on application.



CALENDAR

TUESDAY, NOV. 20.

- 4.30 P. M. Basketball practice, Gymnasium.
- 7.30 Band rehearsal, Chapel.

WEDNESDAY, NOV. 21.

- 4.30 Basketball practice, Gymnasium.
- 6.45 Y. M. C. A., Art Guild.

THURSDAY, NOV. 22.

- 4.30 Basketball practice, Gymnasium.
- Band rehearsal, Chapel.
- 7.30 Debating Club, Art Guild.

FRIDAY, NOV. 23.

- 4.30 Basketball practice, Gymnasium.
- 7.30 Concert and dance by University Orchestra, Chapel and Gym.

SATURDAY, NOV. 24.

- 9.00 A. M. Press Club, Coburn Hall.

SUNDAY, NOV. 25.

- 3.30 P. M. Y. M. C. A., Art Guild.

MONDAY, NOV. 26.

- 4.30 Basketball practice, Gymnasium.
- 7.00 Glee Club rehearsal, Chapel.

ALUMNI.

Caleb H. Johnson, '06, is located with the Sullivan Machinery Company, in their works at Claremont, N. H. Address, 22 Franklin St.

Jack Frost, '06, has just returned to his home in Rockland, from Canada, where he has been since he decided not to enter the Yale Forestry School this fall.

L. H. Mitchell, '05, has recently visited the campus, while on his vacation trip from Glendive, Montana, where he is engaged in work for the U. S. Reclamation Service.

W. L. Merrill, '00, engineer for the General Electric Co., Schenectaday, N. Y., gave a very interesting talk before the Mechanical and Electrical Society last week.

* * *

LOCALS

Nearly every alumnus working in Glendive, Montana, has sent a fall subscription to the Athletic Association.

Lieut. Brown, military instructor at the University, has just returned from Kansas City where he took the examinations for the rank of captain. Lieut. Brown has been here only a few weeks, but has shown that he is a very proficient man for the place, and is very popular with the student body.

As soon as Prof. Hart's new house is completed, it is expected that Lieut. Brown and family will occupy the house at present used by Prof. Hart.

Several of the students are rehearsing under the direction of Mrs. Jones for an entertainment to be given in Bangor during the early part of December.

Special music for Chapel the past two weeks has been of an unusual high order. Two weeks ago, a string quartet composed of Prof. Hurd, Prof. Lentz, M. G. Newman, '07, and Tucker, '10 played "Good Night" by Loeschorn. Last Wednesday, A. H. Norris, of the Bangor Theological Seminary sang "Fear not Ye, O'Israel," by Dudley Buck.

OF INTEREST TO AGGIES.

The entire class of 1907 in the agricultural college at Fort Collins, Col., has been engaged by H. E. Bullock, president of the Malleable Iron Company of Chicago, to go to work on his plantation in old Mexico as manager of his various departments. Bullock's "farm" in Mexico is a remarkable one, 54 miles long, in a fertile valley within shipping distance of the City of Mexico. The farm is well stocked, and two young men from the dairy school will have charge of a dairy with 1000 cows. Two of the young men will go as hog experts, and over 1000 hogs will be entrusted to their care. There are 40,000 acres to be irrigated on this ranch, a large portion of which is to be put into grain, and 130,000 acres of virgin soil is to be cultivated.

Vassar college opens with 1010 students, though a limit of 1000 was set by the trustees two years ago. Of these, seven are graduate students. Four students holding fellowships from Vassar are studying at Columbia and Cornell. President Taylor has returned from his year abroad, and has taken up his work with renewed zeal and energy. The addition to the gymnasium, which almost doubles the capacity of that building, will be ready to use by the time the classes must work indoors. The new residence hall for 175 students has been begun at the end of the quadrangal, opposite the recitation building.

Edgar L. Marston, trustee of Brown university, has given the college a new field-house to be erected on Andrews field at a cost of \$12,000. It is to be a two-story building of a size to accommodate all teams of the college as well as visitors. It is to be fitted up in thoroughly modern fashion for health and convenience.

The rich archeological material brought back to Princeton by the Syrian expedition is now on exhibition in the art museum of the university. The casts embrace several complete doorways very richly carved and ornamented, window headings, carved panels, fragments or architectural ornament in relief carving, and a quan-

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tity of inscriptions in Greek, Latin, Nabataean, Syriac and Arabic. There is a collection of nearly 4000 pieces of ancient glass from tombs in Syria, besides lamps and other objects in pottery, small bronze objects, a few ornaments in gold and silver, and a large collection of coins dating from the third century B. C. to the sixth century A. D.

Sir William Macdonald, whose generosity to McGill university exceeds \$3,000,000, has decided to found and endow a chair of education in McGill university at Montreal, P. Q.

Registration figures at Cornell university are as follows: Sibley college, 1059; arts and sciences, 719; civil engineering, 448; agriculture, 245; law, 201; veterinary medicine, 84; architecture, 83; medicine (at Ithaca), 65; graduates, 142; total, 3046.

A council of New York university last week adopted a resolution ordering that hereafter only students in the academic and scientific departments shall be eligible for intercollegiate athletics. This bars all students in professional and in post-graduate courses. The rule will not become operative until next year.



AMONG THE COLLEGES.

A book of information for gymnasium work has recently been issued by Dr. Reynolds for use here. The book contains an anthropometric chart, diet table, rules for personal hygiene, gymnasium regulations, prescriptions for special exercises, etc. Copies can be obtained from Dr. Reynolds.

In order to stimulate a practical interest in the French language at Harvard, James Hazen Hyde, '98, has offered a cup for the winner in a Harvard-Yale debate to be held in French. The debate will be conducted under the auspices of the Cercle-Francais of Harvard.

A bit of true Dartmouth spirit was shown when practically the whole college turned out at midnight recently to welcome the team returning from the Williams game. Although the

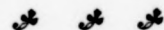
team had not won, it was just as loyally supported, because every man knew that Dartmouth had been represented to the best of the team's ability.

An interesting point in the interpretation of the rules prohibiting hurdling came up in the Chicago-Purdue game when Umpire McCornack of Dartmouth penalized the runner for jumping over a man lying prone on the ground. After the game a conference of the officials and coaches was held and it was decided that hurdling should hereafter be penalized when a runner jumped over a man in a standing, kneeling, or crouching position, the determining factor being whether or not he was in a position to offer resistance to the runner.

Realizing that his duties as dean of Princeton's Graduate School impose claims upon him which he cannot ignore, Dr. Andrew Fleming West has refused the offer of the presidency of the Massachusetts Institute of Technology. This is a great disappointment to those who believed he would be a wise and forceful leader.



Whatever may be the defects of Esperanto, if it comes to be a passport all over Europe, if it comes to aid the small merchant in establishing a foreign trade, if it comes to open a wealth of literature to all the nations—then it will be an accomplishment which none can afford to neglect.



MAIL SERVICE

Mails close at the Orono Office—6.15 A. M., 12.15 P. M., 6.30 P. M. for the West. 3.30 P. M. for the East.
Orono office—open Sundays, 9.30-10.30 A. M.
University office—no mails Sundays.
Mails arrive—4.00 P. M., from West—to—arrive 3.30 P. M., from West.
Close—12.15 for West—to—close 12.30 P. M., for West. 3.30 P. M., for East—to—close, 3.00 P. M., for East
Mails close at the University Office, Coburn Hall—11.00 A. M., 5.00 P. M., 8.00 P. M. for the West. 11.00 A. M. for the East.
Mails due at University Office, Coburn Hall—8.30 A. M., 5.00 P. M., 8.00 P. M. from the West. 8.30 A. M., 5.00 P. M. from the East.

CHAS. C. WHITE, Postmaster.

 UNDERGRADUATE DIRECTORY.

Athletic Association—President, F. P. Hosmer; secretary, R. Fellows.

Football—Manager, E. W. Philbrook; captain, J. H. Burleigh.

Baseball—Manager, H. L. Miner; captain, H. L. Gordan.

Basketball—Manager, A. W. Totman; captain, G. A. Stuart.

Track Athletics—Manager, M. L. Sturtevant; captain, W. J. St. Onge.

Tennis—Manager, R. L. Mitchell,

Musical Association—President, J. K. Goodrich

Manager of Musical clubs—Raymond Fellows.

Glee Club—leader, C. Boyle.

Mandolin Club—leader, C. Marsh.

Banjo Club—leader, S. M. Bird.

U. of M. Band—Manager, ; leader, M. G. Newman.

Orchestra—Manager, H. B. Smith; leader, M. G. Newman.

The Literary Federation—President, E. J. Wilson; Secretary, A. R. Lord.

Debate Club—Manager, A. P. Rounds; president, D. Chase.

The Literati—President, C. N. Garland; secretary, D. Chase.

THE MAINE CAMPUS—Business Manager R. S. Coffin managing editor, E. J. Wilson

The Blue Book—Business Manager, A. B. Cayting; editor-in-chief, A. R. Lord.

"The Prism"—Business Manager, W. D. Trask; editor-in-chief, L. R. Lord.

The Y. M. C. A.—President, L. J. Reed; secretary, F. M. A. Claffin.

Physical Director—Dr. P. L. Reynolds; office hours 9 to 11 daily in Alumni Hall.

Library Hours—8 to 12 A. M., 1.30 to 5.30 P. M. 7.00 to 9.30 P. M., Daily. 2 to 5.00 P. M., Sundays.



FACULTY DIRECTORY.

President Fellows, office hours, 11-12 A. M., Alumni Hall.

Dean Hart, 8.45 to 9.45 daily, Alumni Hall.

Dean Stevens, 8.45 A. M. to 9.45 P. M. daily. 1.30 to 3.30 P. M., Monday and Wednesday, Wingate Hall.

Director Woods, 10 to 12 A. M. daily, Holmes Hall.

Dr. Reynolds, 9-11 A. M., daily, Alumni Hall.

University Office, general information, 8.30, 12.00 A. M. 1.30, 3.00 P. M.

Secretary, 8.30, 12.00, A. M. 1.30-3.00 P. M.

Lieutenant, W. S. Brown, 11 to 12 A. M., Alumni Hall.

Treasurer, 8.30-12 A. M. 1.30-5.00 P. M., Alumni Hall.

TRAIN SERVICE.

BANGOR AND OLDTOWN

Trains leave Bangor—3.15 3.25, 7.10, 7.40, 8.55, 11.35 A. M., and 1.15, 2.20, 3.35, *4.55, 5.30, 6.25, 10.45 P. M., q11.40 A. M., q8.00 P. M.

Exchange St.—3.19, 3.29, 7.15, 7.44, 8.59, 11.39 A. M., and 1.19, 2.24, 3.39, 4.59, 5.24, 6.29, 10.50 P. M., q11.44 A. M., q8.04 P. M.

Orono—†3.45, †7.31, 8.03, 9.18, 11.58 A. M., and 1.38, 2.43, †3.54, 5.18, 5.53, 6.48, 11.08 P. M., q12.03 A. M., q8.23 P. M.

Webster—8.05, 9.20, 12.00 A. M., and 1.39, 2.45, 5.20, 5.54, 6.50, 11.10 P. M., q12.05 A. M., q8.25 P. M.

Arrive at Old Town—3.43, 3.55, 7.40, 8.15, 9.30, 12.10 A. M., and 1.50, 2.55, 4.03, *5.30, 6.05, 7.00, 11.20 P. M., q12.15 A. M., q8.35 P. M.

Leave Oldtown—6.25, 8.45, 9.45, 10.40 A. M., and 12.30, 1.30, 2.40, 3.45, 5.45, 6.55, *7.00, 11.15, 11.25 P. M., q7.40 A. M., q3.00 P. M.

Webster—6.34, 8.55, 9.55, 10.50 A. M. and 1.40, 2.50, 3.55, 5.55, 7.10 P. M., q7.50 A. M., q3.10 P. M.

Orono—6.35, 8.57, 9.57, 10.52 A. M., and 12†38, 1.42, 2.52, 3.57, 5.57, 7.12, 11†24 P. M., q7.52 A. M., q3.12 P. M.

Exchange St.—6.53, 9.17, 10.17, 11.12 A. M., and 12.52, 2.02, 3.12, 4.17, 6.17, 7.22, 7.32, 11.42, 11.52 P. M., q8.12 A. M., q3.32 P. M.

Arrive at Bangor—6.55, 9.20, 10.20, 11.15 A. M., and 12.55, 2.05, 3.15, 4.20, 6.20, 7.25, *7.35, 11.45, 11.55 P. M., q8.15 A. M., q3.35 P. M.

† Stops when signaled on or notice to Conductor.
*Daily, Sundays included. qSundays only.



An interesting and valuable gift to Columbia university has recently been received in the form of a portrait of Rt. Rev. Manton Eastburn, class of 1817. Columbia college, and later bishop of Massachusetts. The records show that in 1832 Dr. Eastburn was appointed lecturer in poetry at the college, and in 1837 he delivered the oration in commemoration of the 50th anniversary of the establishment of Kings college. The gift was made by E. Maitland Armstrong, the designer of the windows in St. Paul's chapel, on behalf of the estate of Meta Neilson.

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College Men Deserve the Very Best of Clothing!

That's the kind you'll surely get if you have the big house of Stern & Son, New York, make your clothing for you. We take your measure; the Stern folks "do the rest," and the way they'll do it will prove to you that here's the most up-to-date tailoring establishment in America, and at the same time the most reasonable on prices. Step in TODAY and we'll take your measure.

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will do more work without strain — will last longer — if you study by the light of a good oil lamp. The

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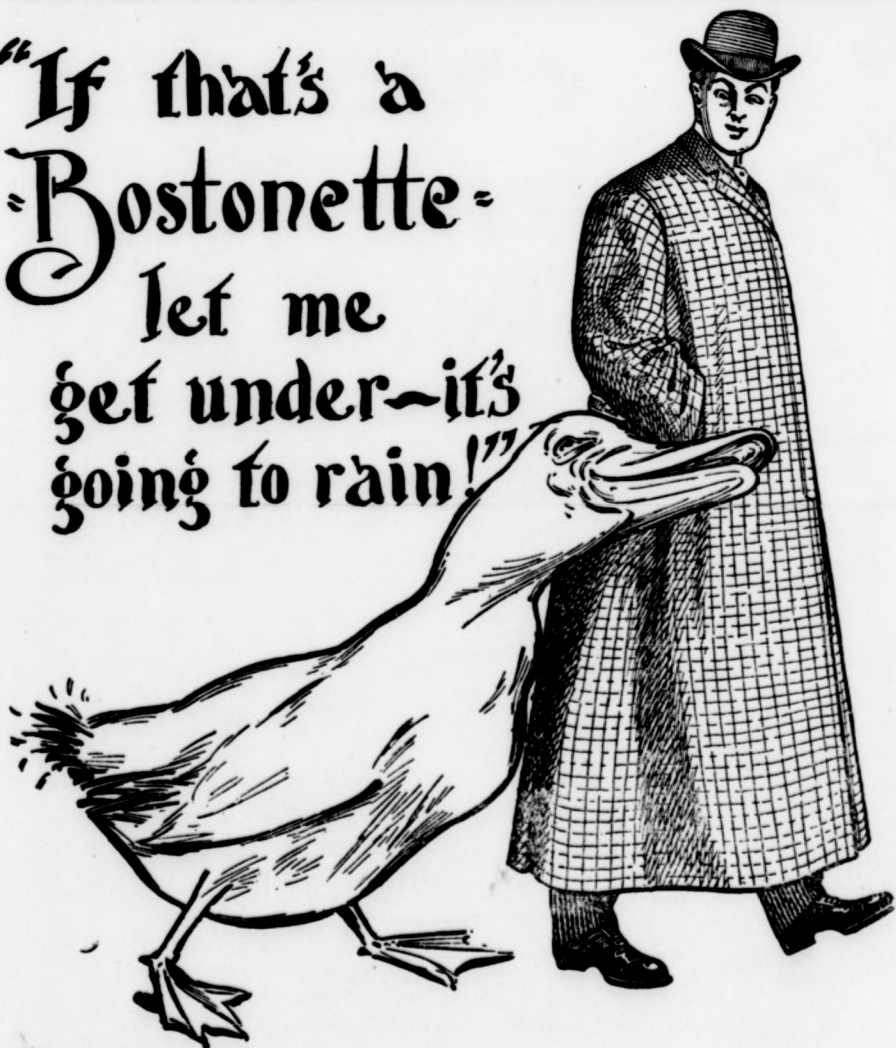
Student Lamp gives that clear, soft light that is easiest for hard-working eyes. Can be adjusted to any height.

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let me
get under—it's
going to rain!"



The Bostonette

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Best Rain or
Fair Day Overcoat
in the market

Does not look like a rain coat
but it will keep you as
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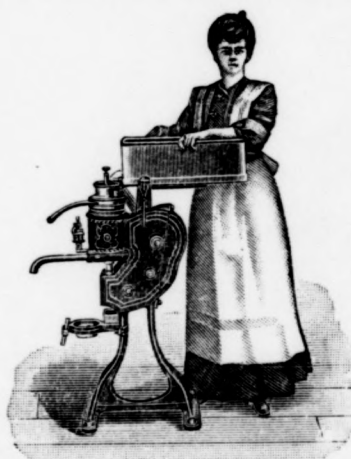
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**Cream
The Most Cream
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Cream means money. More Cream means more money. First Grade Cream brings the top price, and a rapidly increasing number of creameries all over the country are glad to pay a "premium" to get it. If you use an improved

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you get the most money out of your cream, because:
The U. S. Holds the World's Record for Clean Skimming
The U. S. can skim a Heavier Cream than any other and do it without clogging
The U. S. has the record of skimming a cream testing 65 per cent
Our new, handsome 1906 catalogue tells all about the U. S. head it before you put any money into a cream separator. Just write us, "Send catalogue number 115." You'll get one by return mail. Better lay this paper down and write us now while you think of it

VERMONT FARM MACHINE CO.
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U. of M. '98
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Successor to **Thomas & Crowell** 189 Exchange St.
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Cornell University Medical College,

NEW YORK CITY.

The course covering four years begins during the last week in September and continues until June.
A preliminary training in natural science is of great advantage. All the classes are divided into small sections for recitations, laboratory and clinical bedside instruction.
Students are admitted to advanced standing after passing the requisite examinations.
The successful completion of the first year in any College or University recognized by the Regents of the State of New York as maintaining a satisfactory standard is sufficient to satisfy the requirements for admission which have lately been raised.
The annual announcement giving full particulars will be mailed on application.

WM. M. POLK, M. D., LL. D., DEAN,
CORNELL UNIVERSITY MEDICAL COLLEGE,
27TH AND 28TH STREETS AND FIRST AVENUE,
NEW YORK CITY.