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THE MAINE CAMPUS

Vol. VIII

ORONO, MAINE, JANUARY 8, 1907

No. 12

MATHEMATICS IN ENGINEERING EDUCATION.

Ever since higher mathematics has been given a prominent place in technical education, there has been a constantly waged controversy between the so-called practical engineer, and the mathematical or theoretical engineer. By the latter term, we mean the college trained man who applies more or less intricate mathematical solution to the problems which arise in his work. By practical engineer, we mean the man who works out his problems by common sense, experience and "rule of thumb" methods.

The advantages of the college trained man over the non-technical man are obvious, for, add to the college training the experience upon which the practical man depends, and no sound minded person can fail to see the superior equipment of the technical man. The criticisms of practical engineers, however, are not without a good foundation in many cases, but it should be noted that these criticisms are not against mathematics themselves but against the mathematicians and especially against the teachers of mathematics. The criticisms are, in short, against the marked tendency to misapply mathematics and in many cases inability to apply them at all. If this tendency was absent, all controversy would cease immediately.

No doubt much of the mathematics as generally taught is useless from an engineering standpoint, but this should certainly not be the case. There should be a practical application of every mathematical principle. The only argument in favor of mathematics which are not so taught, that they are applicable to practice is that they develop the keenness of the mind,—a strong argument to be sure. But think how greatly the value of this mathematical training would

be enhanced if it were to be directly useful in practical engineering problems.

This great difficulty in the applications of mathematics learned at school is due largely to the entirely impractical nature of many examples found in the text books in present use. They are often taken from the mind of the author who, may be, has not had the least practical experience.

In practice, the most difficult part of a problem is the determination of what data is needed and how it may be secured. When this is done the problem is usually solved and there remains only the simple writing and solutions of one or two equations. In the text book the data is all given very neatly arranged, leaving none of the thinking to the student.

One example taken from the writings of a prominent engineer will serve to illustrate this point: Imagine the average technical graduate standing on the top of a riverside cliff asked to determine roughly the width of the river at that point without other instruments than a watch and a two foot rule, a problem put to the writer when a boy and readily solved due to practical training in triangulation for determining the heights of trees and similar problems. I moved back until my eyes, the cliff edge, and the opposite shore were in line, measured the distance from the cliff edge to where I was standing and the height of my eyes above the ground. I then threw stones as nearly horizontally as possible and noted the time required for them to reach the surface and calculated the height of the cliff; the rest was a simple solution of similar triangles which gave a result surprisingly accurate considering the inaccuracy of the means at hand.

The ordinary way in which the problem would be given the student would be something like this:—A man stands on a cliff overlooking a

river, with his eyes, the cliff edge and the opposite shore in line. He stands so many feet above the ground and the cliff is so many feet high; what is the width of the river? The hardest part of the problem, the only part in fact which presents any difficulty is solved for him before hand.

Again some students have no idea how far they can trust the results of their analysis. Their data has been given them in a "cut and dried" form and they have no training as to its accuracy. The result is useless work and wasted time. For instance, a student takes data accurate to the nearest ton and carries his analysis to a fraction of a pound,—manifestly a ridiculous mistake.

Let mathematics be taught the engineer at any rate, but if possible let them be more closely linked with practical problems.



AGRICULTURAL EXPERIMENT STATION.

The State of Maine laws regulating the sale of food, concentrated feeding stuffs, agricultural seeds, and commercial fertilizers, are plain, explicit and reasonable. Up to the present time, the endeavors of the executive officer of the law have been largely educational. While educational methods will still be used, it may become necessary to use other measures in case there are any who seem unwilling to learn.

The State law regulating the sale of food is essentially the same as the National law. It requires proper and truthful branding. It does not prevent the sale of any article of wholesome food, but in case a food material is not, in every respect, what it appears to be, it "shall be plainly labeled, branded or tagged so as to show the exact character thereof." The label must tell the truth, the whole truth and nothing but the truth. The law seems to have the support of the manufacturers and the wholesale trade, and it is hoped that it will be strictly lived up to.

Each package of concentrated commercial feeding stuff shall bear conspicuously printed,

the following statements:—The number of net pounds contained in the package; the name of trade-mark under which it is sold; the name of the manufacturer or shipper; the place of manufacture; the place of business of manufacturer or shipper; the percentage of crude protein, and the percentage of crude fat. All adulterated feeds must be branded with correct statement of facts.

This law—the first of its kind—was enacted in 1897. A similar law is now in force in most of the Eastern States so that manufacturers understand the requirements which are very generally lived up to.

Agricultural seeds must be true to name and carry a guarantee of the percentage of purity. Considerable poor and unguaranteed grass seed was sold in 1906. Such sales must cease.

Each brand of commercial fertilizers must be licensed and each package shall bear, conspicuously printed, the following statements:—The number of net pounds contained in each package; the name or trade-mark under which it is sold; the name of the manufacturer or shipper; the place of manufacture; the place of business of manufacturer or shipper; the percentage of nitrogen or its equivalent in ammonia; the percentage of phosphoric acid in available form; the percentage of total phosphoric acid; and the percentage of potash soluble in water. This or a similar law has been in force in Maine for more than 20 years. There probably has not been a fraudulent fertilizer offered in Maine within the last 10 years.

The Director of the Maine Agricultural Experiment Station is the executive officer of these laws.



The skating rink on the Whittier field at Bowdoin will be 180 feet long and 80 feet wide. It will be ready to use shortly.

The Williams Glee, Mandolin and Banjo Clubs gave two concerts in New York city last week, the first in the Astor gallery of the Waldorf-Astoria Hotel Wednesday evening; the other in Berkley Institute, Lincoln place, Brooklyn, Thursday evening.

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ANNOUNCEMENT OF LECTURES FOR THE SPRING TERM.

The College of Arts and Sciences of the University of Maine has arranged a series of weekly lectures of a popular nature, along lines of work covered by the heads of departments in that college. In the Fall term of 1906-07 the lectures were upon subjects connected with the departments of physics, biology, and chemistry.

In the Spring term of 1907 a course of sixteen lectures is to be given, beginning Wednesday, February the sixth, at eleven o'clock, in the lecture room of the Library Building, and continuing throughout the term at the same time and place.

Registration for this course is open to all students in the University, and proper credit is given for its completion. The lectures are open to the public and are without charge.

A GENERAL OUTLINE OF GREEK LITERATURE PROF. HUDDILSTON

1. Standards of literary form developed by the Greeks: Epic Poetry, Lyric Poetry, the Drama, History, Oratory and Philosophy.
2. Homer, the progenitor of European literature.
3. The Greek Drama and its influence as an institution.
4. Greek Prose Literature and the projection of the Greek element into the English language.

LATIN LITERATURE PROFESSOR CHASE

1. Greek influences and indigenous elements. The early drama.
2. Republican literature. Cicero.
3. The patronage of Augustus. Virgil, Livy, Horace, Ovid.
4. Silver Latin. Tacitus, Juvenal, Pliny. The inheritance of the Middle Ages and modern times.

HISTORY OF FRENCH LITERATURE PROFESSOR SEGALL

1. Middle Ages. Epic Poetry, Lyrical Poetry, Satirical and Allegorical Poetry, His-

tory, Drama. Sixteenth Century: Renaissance and Reformation. Marot, Rabelais, the Pleiade and Ronsard, Montaigne.

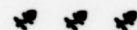
2. Seventeenth Century. The Classical Ideal. The Great Classicists Poetry, Drama, Prose.

3. Eighteenth Century. Montesquieu, Voltaire, Rousseau, Diderot. The *Encyclopedie*, Beaumarchais. The Revolution.

4. Nineteenth Century. Mme. de Stael and Chateaubriand. Classicism and Romanticism. The Romantic Period. The Realistic Period.

GERMAN LITERATURE PROFESSOR CARR

1. The Nibelungenlied.
2. The First German Classical Period: Walther von der Vogelweide and his Contemporaries.
3. The Second German Classic Period: Lessing, Goethe, and Schiller.
4. The Nineteenth Century in German Literature.



THE BLUE BOOK.

The Blue Book for December, makes a very fitting close for the old board of editors, and there can be no doubt as regard the foresight in undertaking a literary publication of this kind. The editors have at all times maintained a high standard during the past year, and by their unitiring efforts, have placed the Blue Book on a firm basis in the college magazine world.

The December number is an exceptionally good one containing poetry from the pens of F. S. Brick, '08, D. S. Thomas, '09 and T. A. Malloy, '07. A reprint taken from "American Education," on the High Schools of California by Prof. Chas. Davidson, and a review of Modjeska as Lady Macbeth by Miss Elizabeth Dinsmore are both well written articles.

The departments of "Ye Knocker," and "Ye Maineac," are very interesting, and A. R. Lord '07, the retiring editor, has a short story "The Call of the Little God" which deserves favorable comment.

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

BANGOR CO-OPERATIVE PRINTING COMPANY

EDITORIALS

Things move along so rapidly now-a-days that people who say "it can't be done" are interrupted by somebody doing it.

Every man is a specialist whether he be a day laborer or a jurist, and if we are wise enough we can find out that specialty and be enlightened. None of us know so much but that we can learn something from every man.

THE CAMPUS regrets to learn of the resignation of Mr. H. M. Shute from the faculty, and we hope it may be possible for him to return at some future date. He is a man who has won

the admiration of faculty and students alike, by his constant attention to the greatest interests of the University, and impartial dealings with every student. His work as treasurer of the Athletic Association has been of an untiring nature, and through his careful management, the finances of the University athletics have always been on a firm basis.

In closing, we sincerely hope that Mr. Shute may obtain the highest success in his new work, and extend to him the best wishes of the University and especially of the student body.

Again we regret to say it has been impossible to have the promised alumni notes, but, under the circumstances, refuse to accept all the blame as in the past.

In the last issue of THE CAMPUS a request was made for all the alumni to send the editor information regarding themselves. So far not a single reply has been received, and unless we receive at least a little help, a good alumni column seems like an impossible task.

Now that the University is at a crisis in its real existence, for unless its needs are met by an appropriation in keeping with the wealth of the State, it cannot hope to exist, we find pleasure in quoting from the pen of

Appropriation a citizen of the State. The following article taken from the editorials of the *Bangor Daily News* shows one of the great needs of the State filled by the University, and is one of the many strong replies to the question: "Why should the State assist the University of Maine?"

"The writer has learned from close observation that as a rule whatever the University of Maine undertakes to perform is done well. The Orono school is still young and is hampered by no dignified traditions. Such reputation as the

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school has gained is of so high an order that every instructor feels as if he must do his best at all times. The men who have graduated from this school have come forth well equipped. Whether the particular subject under debate be methods of instruction, or mechanical engineering, or chemistry, or natural history, those who come out from the educational mill at Orono can stand alone and are able to win success from the world.

"Because Maine is not a rich State, and because years must elapse before Maine can afford to have a normal college, the advanced training for teachers and school supervisors that is given at Orono is a great blessing to the cause of education in Maine. This modern tendency to place emphasis upon the higher forms of education is in danger of working great harm to the public. It is much better for general happiness and for general prosperity to have the masses elevated as a whole, than it is to create a few prodigies of wisdom, while the average, remains in about the same condition it was 50 years ago. The way to reach the public, the way to make good and intelligent citizens, is to devote more attention to the common schools. And the way to reach the common schools is to provide better teachers—such teachers as the normal schools and normal colleges are intended to provide. Raise the mental and normal standards in the common schools and additional compensation for teachers must come."

And we must not overlook the fact that if the State is to look to the State University for teachers, there can be no further doubt existing that Latin and Greek are essential parts of the university curriculum.

The attraction at the Bangor Opera House for this week will be the Elmer Stock Co.

MR. JOHN T. PHELAN.

Mr. John T. Phelan, or as he is better known, "Jack," the new basket-ball coach, began his athletic career in his home town, Peabody, Mass., where he played four years on the high school football team as half-back. After leaving high school he played on the Ipswich football team.

The next spring Jack played semi-professional baseball with South Groveland and the following spring played on the Fairfield and Waterville baseball team. During the fall of that year he entered the St. John Run, which was open to the world, and took first place in the 100-yard dash and 220-yard run. The next summer found Jack playing with Nashua under the New England League. A year later he was still in the New England League with the Manchester team. After a short stay with Montreal he signed with the New York Americans.

His basket-ball career began when he organized the Tacomet basket-ball team and he played on that team for two years. From here he went to Fairfield where he managed and captained a championship team. Later he played on the strong Fall River Signal Corps team.

As a coach he has been very successful as has been shown by the teams which Hebron, Coburn, Waterville High and Kent's Hill have turned out while they were under his training.



MAINE BASKET BALL SCHEDULE.

JANUARY

- 5. Coburn Classical Institute, Orono.
- 11. Hebron Academy, Orono.
- 19. New Hampshire College, Orono.
- 26. Colby, Orono.

FEBRUARY

- 2. Brewster Academy, Orono.
- 8. Colby at Waterville.
- 15. Open, Orono.
- 27. Phillips-Andover, Andover, Mass.
- 28. New Hampshire College, Durham, N. H.

MARCH

- 1. Tufts, Medford. Mass.
- 2. Mass. Tech., Boston, Mass.

FRESHMAN-SOPHOMORE DEBATE.

The debate between the freshman and sophomore classes, which had been planned for, for so long, by the University Debating Club, has at last taken place. The debate was held in Alumni Hall on Thursday evening, Dec. 20, 1906.

Owing to the stormy weather, there was not a very large audience, but all of those who were there enjoyed one of the most interesting debates ever held at the University. The question was handled exceptionally well by both sides and all of the speakers showed that they had spent much time and care upon their work.

Perhaps the best part of the debate was the form of delivery of the several speakers, for without an exception, the speeches on both sides were delivered with the greatest of ease, and in several instances the audience was surprised by the frequent bursts of oratory. After careful consideration the judges awarded the debate to the affirmative, this side being taken by 1910.

The question was:—Resolved, That the Federal government of the United States should adopt a progressive inheritance tax. The constitutionality of the question was admitted. The speakers were as follows:

- 1st Affirmative, R. W. Redman.
- 1st Negative, B. A. Chandler.
- 2nd Affirmative, C. H. Johnson.
- 2nd Negative, J. H. Mason.
- 3rd Affirmative, F. G. Wadsworth.
- 3rd Negative, W. A. Fogler.

The chairman of the evening was Pres. Geo. E. Fellows of the University. The judges were Mayor W. B. Pierce of Bangor, Dean Walz of the U. of M. Law School, and Hon. Geo. Thompson of Orono.



TRACK.

The track season is now on in earnest. To any one who doesn't know or who has forgotten our record last year let him investigate the "Stand pipe" at once.

No better opportunity was ever open to fel-

lows to earn their "M" than this year. The men graduating last year left lots of big holes. Especially are there places in the hurdles, dashes, pole vault, and weights. There are plenty of men in college who could make the team if they only thought they could. The "Gym" is plenty large enough and Steve is capable of taking care of many more men than are out now. It ought to be the duty of every man who ever ran the "hot oven" either his first or any other year to get out and, at least, try. There ought to be out of a college as large as ours at least fifteen men for each position. If as many as this would get out and try we would have a track team not only champions of Maine but one of the best in New England.

Remember Sophomores and Juniors—Those of you who are not registered for some work in athletics *must* take "Gym" work and that means certain hours in the day while for track you can get out any time even if after supper.

"Steve" especially wants to see some of the big football men make a try for the weights. There is an extra good place to get their muscle up in the new baseball cage.

Now remember that, "The successful college man is the one who does his college work and a little besides," and get out and show your appreciation for what the University is doing for you and see what you are made of.



S. A. E. BANQUET.

The second annual banquet of the S. A. E's of Washington County was held at the St. Croix Hotel, Calais, on the evening of December 28th, 1906. The toastmaster of the occasion was Chase, '04. The following toasts were responded to by those named, "S. A. E's Welcome," John Bates, '07, "Athletics" Emery, '08, "1910" Russell, '10, "Alumni," Shaw, '03, "The Ladies," Gardner, '09, "The Cold, Cold World," Talbot, '04, and "Sigma Alpha Epsilon," Towse, '02. Both students and alumni present enjoyed the sumptuous repast prepared for them and the occasion was one of enjoyment for all.

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MR. SHUTE RESIGNS.

At the last meeting of the faculty, the resignation of Mr. H. M. Shute, instructor in modern languages, was received. It was only after a long consideration of the situation that the resignation was accepted, for Mr. Shute is one of the most efficient and highly esteemed members of the faculty. Mr. Shute leaves some time this week and will go to Exeter to teach languages at the Academy.

Mr. Shute graduated from Tufts college with high honors in 1902, receiving his M. A. at graduation. He came to Maine in the fall of 1902, and during his stay here at Maine has won many friends who regret to hear that he leaves the University.

TUFTS CONCERT.

The Tufts Musical clubs gave one of their ever popular and well rendered concerts in Bangor City Hall, Friday of the Christmas recess.

The following Saturday, the clubs were the guests of the members of the Universalist Church in Orono, giving a concert in Town Hall followed by a social dance. The Tufts Clubs are always noted for the excellence of their work, and this concert was no exception.

Saturday and Sunday, the members of the Clubs went over the Campus visiting the fraternity houses and other points of interest, Sunday afternoon, the clubs were the guests of Dr. Whitcomb, where they spent a very enjoyable afternoon.

DRAMATIC CLUB.

At the first trial for the cast of "As You Like It," the play to be given by the Dramatic club, there was an unusual large number of candidates for the several parts, and it was a very difficult task for the judges to select the candidates.

The following have been recommended by the judges to take some of the parts: J. Burleigh,

'07, F. Simmons, '07, D. Chase, '08, S. Lampher, '08, W. Gilbert, '09, M. Fassett, '10, A. Schierloh, '10, F. Pettey, '10, and C. Murphy, '10.

The second trials will be held this, Tuesday afternoon at 3.30, in Coburn Hall. The same judges will serve, and it is hoped a large number will come out, as there are yet nine parts to assign, besides the understudies.

After these trials, the cast will be announced and rehearsals will commence at once.

CALENDAR

TUESDAY, JAN. 8, 1907.

- 4.30 P. M. Basketball practice, Gymnasium.
Track practice, Gymnasium.
Banjo Club rehearsal, Alumni Hall.
7.30 Band rehearsal, Chapel.

WEDNESDAY, JAN. 9.

- 4.30 P. M. Chemical Club, Fernald Hall.
Track practice, Gymnasium.
6.45 Y. M. C. A., Library Bldg.
7.30 Agricultural Club, Holmes Hall.

THURSDAY, JAN. 10.

- 4.30 P. M. Track practice, Gymnasium.
Basketball practice, Gymnasium.
Band rehearsal, Chapel.
Banjo Club, Alumni Hall.
7.30 Debating Club, Library Bldg.

FRIDAY, JAN. 11.

- 4.30 P. M. Track practice, Gymnasium.
Glee Club rehearsal, Chapel.
7.30 Basketball game, Gymnasium, Hebron Academy vs. Maine.

SATURDAY, JAN. 12.

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

SUNDAY, JAN. 13.

- 3.30 P. M. Y. M. C. A., Library Bldg.

MONDAY, JAN. 14.

- 4.30 P. M. Track practice, Gymnasium.
Basketball practice, Gymnasium.
7.30 Glee Club rehearsal, Chapel.

LOCALS

A. W. Richardson '06 has been about the Campus during the past week.

E. H. Stetson '07 has returned to college, after being away several weeks on thesis work.

Fulton '10 is out of college for a few weeks.

The Cumberland County Club held a banquet in Portland on Friday, Dec. 28. The club held a smoker in the new club room in the library just before the Christmas recess.

The following have left for the remainder of the year, W. Davis '10, Hurd '10, Hall '08.

S. S. Mitchell, '08, has left the University to accept a position in Patten.

A. N. Hutchinson '09 has been appointed assistant manager of Blue Book.

At a short college meeting last Friday, the subject of track athletics was brought up. The prospect is not over bright this year, and Capt. St. Onge and Mgr. Sturtevant made an appeal for all students to come out and try for the team.

B. F. Williams, '07, represented Maine Beta Upsilon Chapter at the Twentieth Biennial Congress of the Alpha Tau Omega, held in Birmingham, Alabama during the holidays. R. F. Talbot, '07, was the official delegate of Maine Alpha Chapter at the Biennial Convention of Sigma Alpha Epsilon held in Atlanta, Ga., during the holidays.

Dean Stevens, in the course of a talk to the students last week, announced that the standard of entrance requirements would not again be changed. The University is now one of the colleges composing the New England certificate board.

Mr. and Mrs. Charles Brown and daughter left Friday for New Haven, Conn., for the Christmas vacation. While in New Haven Mr. Brown was ill several days with a severe cold.

Miss Gladys Fellows, ex-'06, who is attending Wellesley College, spent the Christmas holidays with her parents, Dr. and Mrs G. E. Fellows.

Mr. E. R. Mansfield, '99, spent the holidays in Orono with his parents. At present he is attending the Cornell Medical college and will graduate next June.

Prof. Caroline Colvin spent her vacation in Philadelphia and Washington, D. C.

W. Shaw, '05, is at present in Orono on a visit with his parents.

Prof. Hart has moved into his new home on College Ave.

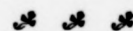
During the Christmas recess the following were in New York attending the American Association of Advanced Science and affiliated societies: Prof. Hart, Prof. Stevens, Prof. Munson, Prof. Weston, Prof. Ganong, Prof. Drew, and Prof. Jewett.

Prof. Carr has just returned from a meeting of the Modern Language Association in New Haven, Ct.

Colby has accepted the challenge recently sent out by the university debating society, and it is now settled that the two institutions will hold annual competitive debates. The first will be held in Orono.

Seniors in the forestry course are now on outdoor work. This winter they will be given an opportunity to follow the work of lumbering from the cutting of the tree to the mill. They will scale the lumber, build the skidways, get practical experience in yarding and follow the hauling from the lot to the river and from there to Engel's mill.

The local chapter of Alpha Zeta, the agricultural fraternity, held its annual initiation Monday night and admitted the following to membership: Richardson, '08; Turner, '08; Irish, '08.



The Cornell track team has a hard winter schedule ahead. It has been almost decided to have Cornell represented at the following big meets: Greater New York Irish Athletic Association, Madison Square Garden, first week of February; Boston Athletic Club meet, Boston, second week of February; Georgetown University games, Washington, D. C., Washington's Birthday; military tournament, Troy, first week in March; New York Athletic Club games, second week in March, Madison Square Garden, New York. For these events Cornell is developing a mile, two-mile and mile-and-a-half relay team, besides several men for special events.

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SCHEDULE OF EXAMINATIONS.

In 1906-1907 the examining Periods begin as follows: For the first Semester on Saturday, January 26, and for the second Semester on Saturday, June 1.

Time of Exercise*	Monday 7.45	Monday 8.45	Monday 10	Monday 11	Monday 1.30	Monday 2.30	Monday 3.30
Time of Examination	Monday 8—10	Tuesday 8—10	Thursday 8—10	Saturday 8—10	Saturday 1.30—3.30	Wednesday 1.30—3.30	Friday 1.30—3.30
Time of Exercise	Tuesday 7.45	Tuesday 8.45	Tuesday 10	Tuesday 11	Tuesday 1.30	Tuesday 2.30	Tuesday 3.30
Time of Examination	Friday 8—10	Wednesday 8—10	Monday 1.30—3.30	Thursday 1.30—3.30	Tuesday 1.30—3.30	Wednesday 1.30—3.30	Friday 1.30—3.30
Time of Exercise	Wednesday 7.45	Wednesday 8.45	Wednesday 10	Wednesday 11	Wednesday 1.30	Wednesday 2.30	Wednesday 3.30
Time of Examination	Monday 8—10	Tuesday 8—10	Thursday 10—12	Friday 8—10	Saturday 3.30—5.30	Wednesday 10—12	Friday 1.30—3.30

*Note: By the **Time of Exercise** is meant the time of the first exercise of the week in any given course. For example: If a course is given Monday, Wednesday, and Friday at 10, it is said to be given **Monday at 10**. By referring to Monday 10, in the schedule it will be seen that the examination falls upon Thursday 8—10. A course given once a week on Friday is scheduled as though it were given on Monday and a course given once a week on Thursday is scheduled as though given on Tuesday.

Any instructor is allowed to continue an examination three or even four hours if it does not conflict with other examinations.

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The Williams baseball management is completing plans for a western tour early in the coming season. The trip will probably be of a week's duration. College teams only will be played. Games have already been arranged with the University of Michigan and Oberlin College. William Lauder, the ex-New York Giants' third baseman, who will coach Williams this year, expects to spend a week during the month of February with the squad in the cage and to return at the end of March to remain with the team until the end of the season. They will be called out for practice in January.

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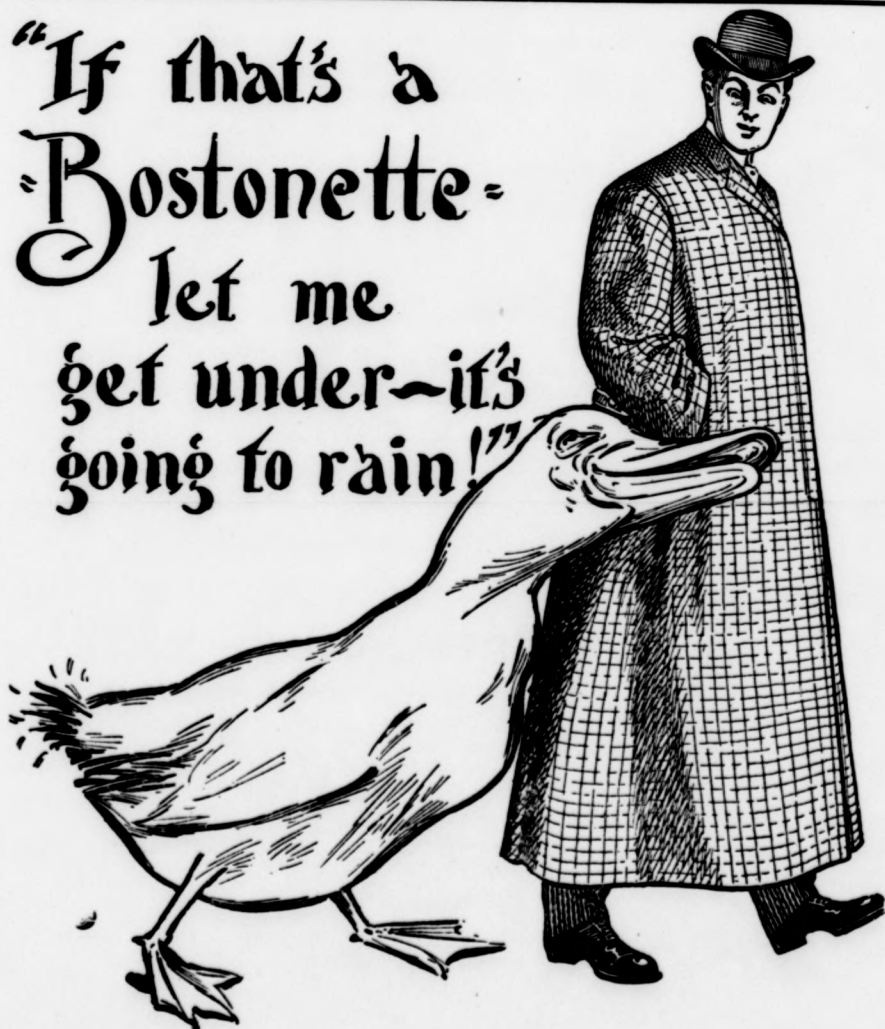
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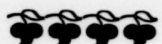
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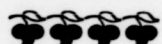
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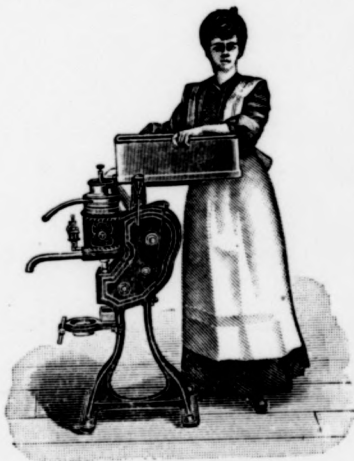
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