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Maine Campus November 23 1921

Maine Campus Staff

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Sing
in
Chapel

The Maine Campus

Published Weekly by the Students of the University of Maine.

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Vol. XXIII

ORONO, MAINE, November 23, 1921

No. 10

Military Staff Aims for Perfection in Drill

The Military Staff is of the opinion that competition is necessary to create a higher spirit between the various companies of the regiment. Already, in order to form a little competition, a banner has been promised as an award to that company making the best progress during the year. Company A has won that pennant for the last two years and perhaps, if the fighting spirit of the other companies does not rise, it will go to the same place this year. Fighting spirit is a requisite for each and every company in order that the best of results may be obtained. To arouse that feeling of antagonism and to bring the several companies into closer contact with each other, it has been found advisable to plan for an inter-company basketball league.

The formation of this league, which will take place when the intramural matches are well under way, will bind the companies into a closer relationship which will break the way for the success of bigger activities later on.

At present, feeling is being stirred by individual efficiency demonstrations. A company is lined up at attention and the man assuming this position the best is excused for the remainder of the hour. Those men who have been excused for their exactness in this part of the drill have the compliments of Major James. The men excused during the week of Nov. 14 are: Co. A—Dan Pillsbury Co. B—Belfour Tyndall Co. D—Donald W. Penley Co. C—Solomon Marquis Co. E—Charles S. Collins Co. F—Donald C. Lincoln Co. G—Osmond S. Whiteside Co. H—Philip Ehrlich.

Later on an elimination drill is held in the manual of arms. Men are dropped as soon as defects in the manual are detected until finally only four or five men remain. Those men are also excused for the remainder of the period.

Gov. Percival Baxter Reviews R. O. T. C. Unit

On Wednesday the 16th, the Governor of the State of Maine, Hon. Percival P. Baxter, accompanied by General Hadley, Adjutant General of the Maine National Guard, Lieut.-Colonel Gillen of the Governor's personal staff and several distinguished gentlemen paid a visit to the University.

The Governor was met at the Mount Vernon House by Cadet Captain Steven S. Kafer, appointed to act as aid to the Governor during his stay here. Upon his arrival on the campus he was met by Major James and his staff and conducted to where the regiment and band was formed in line. When the Governor took his post in front of the regiment, it was brought to the "present" and the band sounded the four ruffles and four flourishes and the General's March. At the conclusion of the march the Governor and his entire party walked around the troops. The party then took post in front of Coburn Hall where the regiment passed in review, in column of squads before the Governor. At the conclusion of the review the Governor complimented Major James very highly on the showing made by the Corps and said that he was certainly going to attend the spring camp at Newport next spring. After a few questions relative to the interest of the students in Military and the attitude of the students as a whole toward the R. O. T. C. the Governor was escorted to the office of Dean Hart.

Home Economics Club Meets at Practice House

The second meeting of the Home Economics Club was held Wednesday evening, Nov. 16, at North Hall. A short business meeting was held, at which Miss Eleanor Murray '25 was elected as the new member of the Social Committee. During the social hour which followed Miss McInnis gave a short talk on the Disarmament Conference and Miss Minnie Norell rendered a vocal solo. Dainty refreshments were served by the refreshment committee.

New Amendments for The Campus Constitution

Due to the reorganization of the Campus Board, the constitution by which that Board acts has been somewhat changed and enlarged. The amendments are as follows:

Article 10

Section 1 Without the unanimous vote of the executive committee, no four page issue may contain more than enough advertising material to constitute six galleys.

Section 2 Without the unanimous vote of the executive committee, No six page issue may contain more than enough advertising material to constitute twelve galleys.

Article 5

Section 1 A banquet shall be held for the members of the Campus Board each year following the annual meeting of the Board.

Section 2 The Executive Committee of the Campus Board shall appropriate such funds as it deems advisable for financing this banquet.

Article 6

Section 1 The Campus Pine Tree shall be a gold pendant of the following description. There shall be a gold pine tree on a black enamel background, five eighths by three quarters inches with the word Maine in gold letters above the pine tree and the word Campus below, with a gold border surrounding. On the reverse side shall be inscribed the name of the holder and his record of service.

Section 2 The Campus Pine Tree shall be awarded to the Editor-in-Chief, Business Manager, and associate editors at the termination of a year's service and to any other persons designated by a three-fourths vote of the executive committee. This awarding shall take place at the annual Campus Board banquet.

Section 3 The Campus Pine Tree shall be purchased from the general Campus fund.

First Issue of Maine Spring to Be Out Soon

This week has been designated as "Maine-Spring Week" on the Campus and a special campaign will be made to secure subscriptions for the Maine-Spring, the first issue of which will appear within ten days. The Maine-Spring was started last year by the Contributor's Club to take the place of the old "Maine Blue Book" which died during the war and to fulfill the need for a college literary magazine.

This year the Maine-Spring will be put out in a larger and more attractive form and a wealth of talent and material promises to place it among the best of college literary magazines. To insure its success, however, a large subscription list is necessary.

Each issue this year will feature at least one of Mr. Cumming's French dialect poems. An effort is being made to have a special number in which stories by the Maine alumni, who have become known in the literary world, will be featured.

Agents will canvass the various houses and dormitories for subscriptions while those not reached in this manner may leave their subscriptions at the college store. The price is \$1.25 for the entire year.

Mount Vernon Co-eds Hold an Informal Dance

The girls of Mt. Vernon House celebrated the half-holiday given by the Governor on Wednesday, November 16, by having a very enjoyable informal dance at the house. About fifteen couples were present. Music was furnished by "Al" Johnson, supplemented by the victrola. Miss Boler acted as chaperon. Mt. Vernon has had several such dances so far this year and all of them have proven highly successful.

A Talk on Explosives Given by Mr. Pearsall

Upon the invitation of Major James, Mr. Pearsall, connected with the Chemistry Department, gave an interesting lecture to the members of the R. O. T. C. during the fourth period Saturday morning. His lecture was a brief summary of the chemical composition and conduct of the most common explosives used in modern warfare.

The lecture was chiefly for the benefit of the Sophomores, as that will be the subject of their classroom work in the near future.

At the beginning of his lecture, Mr. Pearsall stated that his aim was not so much to go into the intricate details of the structure of the explosives as to show the fundamental facts regarding explosives in general.

"Explosives" he stated, could be divided into three classes or divisions. The first, the propeller class, at which gun powder is a good illustration; the second class, the high explosives represented by nitro-glycerine $4C_3H_5(NO_3)_3$; and the third, by far the most deadly of all the fulminates, of which class fulminate of mercury $Hg(ONC)_2$ is a good example. An idea may be had of the explosiveness of the third class when it is known that only 3 pounds are compounded at one time and that it is always kept under water until used. Brief details were also given of the way each type was compounded and of the different elements used.

Workers in the chemical plants practically sign their life away when they accept work. An instance of this may be noted in the recent explosion in one of the great chemical plants in this country. So great is the danger that only 4 or 5 men are allowed to work together and special clothes have to be worn during working hours.

The requirements of a good explosive are: stability, resistance to decomposition, and non corrosive action on the gun barrels.

In conclusion he said, that in his opinion, the progression in the chemical industry and chemical research will in the future give us explosives that will compare to our present day explosives as our present day explosives compare to those used 200 years ago.

A Memorial Tablet for Maine's Gold Star Men

The Veterans of Foreign Wars are beginning a drive to raise a certain sum of money, to be held in trust, for the purpose of erecting a memorial tablet in the new Union Building the Alumni are proposing to build. The tablet will be dedicated to the thirty-six gold star Maine men who gladly gave their lives for their country during the Great War. Although it may be several years before the building is a reality the Veterans of Foreign Wars wish to be prepared for the time when the building is finally completed. A substantial amount is expected to be derived from the Military Circus that is to be shown on the Campus in the near future.

A permanent Memorial Committee has been elected composed of: Horace B. Atkinson: "Pep" Towner: Webster White: Sidney Osborne: Carl H. McKechnie.

Campus Stag Dance to Be on Thanksgiving Day

The Campus is giving a dance in the gymnasium, Thursday afternoon, Nov. 24, from 2.30 until 5 o'clock. The purpose of this dance is to raise money so that we may have a better college paper with more cuts.

The older students, no doubt, remember the stag dances that used to be held in the gym, and what good times everyone had.

The committee is working hard to make this dance the best one yet.

The committee in charge consists of: Mary Coughlin, chairman, Betty Kingsbury, Bernie Mayo and Fred Blethen. The price of admission for ladies, 25 cents, men 35 cents. Music will be furnished by the Harmony Hounds.

Governor of State Visits Maine Campus

Governor Baxter Is Met At Waiting Room by Band and R. O. T. C. Corps. Receives Hearty Welcome from Students.

Mr. Cummings Speaker At Chapel Exercises

Speaking in chapel in relays, according to Professor A. L. T. Cummings isn't what it's cracked up to be, yet his talks, Thursday and Monday were certainly enjoyed by all. We certainly agree with Professor Cummings when he says that it is the element of chance that makes life exciting and incidentally Chapel interesting. It certainly was a lucky chance which brought to us Professor A. L. T. Cummings and his clever Canadian dialect.

Everyone has noticed the decided difference in the general spirit of the college this year and last and all wonder who is responsible for it. Professor Cummings says that the difference lies in a combination of close communion between students and the faculty. Whether he has really discovered the secret or not we do not know but we do know that we like the new spirit. It has been proved that chapel helps a lot toward raising this spirit, and certainly those few who considered chapel a hardship have changed their views. There should be more student participation in chapel "for who knows," Professor Cummings says, "but what we might find a William Jennings Bryant, a Caruso, an Edmund Burke, in our midst?"

While we enjoyed Professor Cummings' talk very much there is one thing that bothers us. It's about those pigs. We'll leave it to you, now, isn't it perplexing how three little piglets can devour a pile of food and yet the three of them together, not half fill the pail? as the information might come in handy We'd like to know how to manage it some time.

Chemistry Department Has Moving Pictures

On Wednesday night the Chemistry Department gave its weekly picture show in the chapel, showing five reels. The first reel illustrated the dredge method of recovering gold from gravel which cannot be worked in any other way on account of the very small amount of gold in it. It showed how the gravel is dredged up, washed, screened, and worked over, up to the final refining and weighing of the gold. Two other reels showed how radium is obtained from the carnate ore found in Idaho. The whole process of blasting out the ore, transporting it to the mill, and obtaining the radium, was shown, making it very plain why this is such an expensive element. The two final reels, taken in the Studebaker plant, illustrated the making of automobile parts, from the time the steel ingots come into the plant until they are cast or forged into completed parts ready to go into the car. The pictures, which were very interesting and instructive, were quite well attended.

A Joint Debate to Be Arranged With Colby

At the meeting of the Debating Society, last Tuesday, several matters of importance were discussed. Secretary H. O. Noyes was requested to correspond with Colby regarding the setting of a date for the Maine-Colby debate. A constitution committee was appointed, also a program committee. Temporary officers were elected. Mr. Richardson was the presiding officer. The next meeting will be held on Tuesday, Nov. 29.

The faculty and students united in giving Governor Baxter a sincere welcome when he visited the University of Maine last Wednesday. The band and the R. O. T. C., 450 strong, met him at the waiting room and escorted him to the chapel.

The chapel had been specially decorated for the occasion with palms and the Maine banners. Seated on the stage with the Governor were the Deans and the members of the Governors party. The chapel was filled to overflowing. The faculty were seated on the stage while the R. O. T. C. and the rest of the student body filled the seats, aisles, gallery, and doorways.

Professor Mark Bailey conducted the usual chapel exercises, after which he introduced Col. Strickland, President of the Board of Trustees, who in turn presented His Excellency Governor Percival V. Baxter.

The following are the main points the Governor emphasized in his talk.

The people of the State are proud of the work that the University is doing and has done in the past. They realize that, as our institution enlarges the financial support must be increased accordingly. Governor Baxter personally feels the increasing need of putting this University on a sound business basis.

Many of the students are making sacrifices in order that they may get the benefits of a higher education. The folks back home are making sacrifices also. It speaks well for the state that

(Continued on Page Four)

Basketball Squad Is Showing Progress

The basketball squad is working hard in preparation for their schedule of games which, as yet, has not been definitely announced. There are three veterans on the team this year who will do much to make a winning aggregation. Capt. Holmes and Turner are showing up particularly well in the practice. Practice takes place every afternoon and there are a large number present, the squad consisting of about forty men. Early in the week, Coach Flack limited the squad to thirty men about half of the number who were then working. Since that time ten men have been added to the list which is posted on the bulletin.

The schedule for the coming season has been arranged by Manager McCristol, but has not yet been definitely announced. It is understood that the schedule this year includes games with M.I. T., Boston College and Boston University, making a week's trip in Boston.

It is expected that when Coach Flack returns he will personally direct the practice and the team will have the final preparations for the games.

Balentine Has Week of Prayer for Y. W. C. A.

As part of the general work of the Y. M. C. A. and the Y. W. C. A., Balentine held a week of prayer. Alta Jones, as president of the local Y. W. C. A., spoke on Sunday evening about the work of the two organizations in general. On the following evenings, various persons conducted the meetings. Monday, Mrs. Hendrickson on the Y. W. in Africa, Tuesday, Ruth Shepard the Y. W. in Asia, Wednesday, Elsie Perry, the Y. W. in South America, and Thursday, Constance Turner, the Y. W. in Europe. The attendance during the week was very encouraging to those in charge, because the groups were so in various types of the girls in the house.

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Be Charitable

Keep clear of personalities in conversation. Talk of things, objects, thoughts. The smallest minds occupy themselves with persons. Do not needlessly report ill of others. As far as possible dwell on the good sides of human beings. There are family boarding places where a constant process of depreciating, assigning motives, and cutting up character goes forward. They are not pleasant places. One who is healthy does not wish to dine at dissecting table. There is evil enough in man, God knows. But it is not the mission of every young man and woman to detail and report it all. Keep the atmosphere as pure as possible, and fraught with gentleness and charity.

The Lyceum Concerts

The Lyceum concerts given during the winter under the auspices of the Maine Christian Association have not been as well supported by the student body this year as they should be. The course tickets have not sold as well as they have in previous years.

These concerts are one of the few really good entertainments that we are able to procure during the winter as we are out the beaten paths of travel. The artists appearing in these concerts are those who are not only very able entertainers but also very high class entertainers. They are continually playing for college students and chose their programs for our particular class of audience. The programs are not made up of selections so heavy that they are not easily appreciated neither are they entirely of the "jazzy" variety.

The members of the faculty and their families are giving splendid support to the concerts. It is up to you as a representative of the students to decide whether the student body makes the concerts a success or a failure for it is upon the student body that this responsibility rests. To attend and enjoy these concerts is a sign of good taste.

"If a lie get in your way, blow your horn, but don't shut off your power."

Chapel Exercises

The compulsory chapel exercises are certainly making good. The attention at chapel is of the best. Every speaker has been shown the utmost courtesy and consideration by the students. The programs have been very interesting and entertaining as well as helpful. They have terminated promptly at twelve o'clock and chapel bids fair to become one of our best gatherings.

There are, however, several things which we feel would help the chapel service a great deal. The most noticeable void in our service is the failure of the student body to join in singing the introduction and the hymn. The religious part of the program is very short and in order to make it good the wholehearted cooperation of the students must be obtained. The singing has improved slightly but should be made much better.

There are two rows of seats at the front of the chapel reserved for members of the faculty. These two rows will accommodate twenty faculty members. There are 118 members of the University faculty listed in our catalog and up to the present time the number of seats reserved for faculty members have never been more than half filled. It seems to us that the chapel exercises should receive more support from members of the University faculty. It is of

course impossible for all faculty members to attend but it seems as if at least 20 from the 118 should be able to be present. It should be a pleasure as well as a duty to attend chapel.

There is one other point in connection with chapel which we believe should be at least mentioned. This is the tendency of many students to enter chapel late and thus cause considerable confusion. From now on the chapel doors will be closed by members of the Sophomore Owl Society one minute after the second bell rings and no one will be allowed to enter chapel after the doors are closed. We need only a little more cooperation to make chapel all that it should be.

"Behind every business that keeps up with the times is an individual who keeps ahead of them."

To Our Faculty

At a recent meeting of the Campus Board it was voted to send the *Maine Campus* to all members of the University faculty. This was done in order to be sure that all members of the faculty were able to keep in close touch with activities on the Campus.

The number of members on the University faculty and the added expense of having part of our paper printed in Bangor will not allow us to send the paper free to all members. Many members of the faculty have already sent one dollar, the price of the yearly subscription, to the business manager. With the number of faculty members who have sent us a subscription we feel that we can afford to send the paper to the entire faculty.

If you as a member of the faculty feel that the *Maine Campus* is actually worth one dollar for the year we would greatly appreciate a subscription from you, on the other hand we are only too glad to send the *Maine Campus* to you anyway.

We sincerely wish that all members of the faculty would feel free to criticize the *Campus* in any way whatever and we guarantee complete cooperation with you. We also offer the columns of the *Campus* for any communication you may wish to make with the student body.

Follow the Disarmament Conference in the papers—it is time well spent.

Maine-Spring Week

During the past few years slack conditions at the University of Maine have been especially shown in one field of our student activity. Our interest in real literature, as shown by student activity, has certainly been pitifully small. Whereas, other colleges in our class have been able to support two or three literary magazines, we have not been able to boast of having even one. Our excuse was, "Oh, that's just a result of war conditions." No such excuse will bear publicity now. *We must deliver the goods!*

Last year a good beginning was made in the right direction by the organization of the "Maine-Spring." Several issues of this new publication appeared and showed remarkable quality for anything so recently established.

This year five issues of the "Maine-Spring" are to be published. We, the student body, may expect and even demand very great improvement in the quality of this magazine if we support it in its hour of need. Now is the time to demonstrate our desire to boost Maine to a front-rank position in literary activity. This week is Maine-Spring Week, the time for you and me to gladly purchase a year's subscription to our literary magazine, for one dollar and twenty-five cents.

Reorganize Catholic Club on the Campus

Tuesday evening a meeting was called in the chapel for the purpose of reorganizing and reviving the Catholic Club, an organization formerly active on the campus. A board of officers and an executive committee were elected to formulate plans of procedure and to organize a program of interest to the club members. The election was as follows: President, W. A. Keyte; Vice-President, Pick O'Connor; Secretary, Mary A. Coughlin; Executive Committee, Bisson, Mayo and Malloy. At the close of the business transaction, Fr. Feeny of Orono gave a brief, informal talk on his experience with and knowledge of other Catholic clubs in existence throughout the country and mentioned particularly the activity of such a club at McGill University.

National Cross Country Won by Cornell Team

Maine won sixth place in the National cross country race held last Monday at Van Cortlandt Park, New York. The Cornell distance runners easily captured individual and team honors, finishing with the low count of 18. Princeton was second with 87 points, Syracuse third with 108, and Yale fourth with 111.

Robert E. Brown of Cornell, the individual winner, set a fast pace over the water-soaked course from the start and was never headed, finishing in 32 minutes, 20 5-10 seconds. Robert Crawford of Lafayette, and Marvin Rick of Princeton pressed him close, early in the race, but the Cornell runner had plenty in reserve and the pace eventually wore out his challengers to such an extent that Norman Brown and E. C. Carter, both of Cornell finished second and third. Rick was fourth, George Miske of Cornell fifth, and Crawford of Lafayette sixth.

Cornell's victory was the ninth since the inauguration of the contest in 1908. All previous point records were broken by the Ithicans with the remarkably low score of 18 points.

Maine's showing was very creditable considering the number of colleges entered. Those represented were: Cincinnati, Colby, Columbia, Cornell, Dartmouth, Harvard, Maine, Massachusetts Tech, Penn State, Pennsylvania, Princeton, Syracuse and Yale.

Dana Gives Interesting Lecture to Foresters

At the meeting of foresters last week state commissioner Dana spoke. His speech was very interesting, bringing up facts of the condition of present day condition of our forests.

He spoke of the subject in periods. The first, colonial times to 1890 telling of the discovery of a danger of a wood shortage.

2nd Period 1891. First began to establish reserves and began to plant and set out on a definite policy.

3rd Period. Col. Grover advocated public control of privately owned lands for sustained reproduction.

Feels confident that if Federal and State will not take control of the forest situation, that it should be a matter for the public in general to take up.

Mr. Dana also recommends re-planting on cut lands and old farms.

Where 30 or 40 years ago where lumbermen cut trees from twelve inches and up now it is from four up. The matter in Maine is more serious than realized. Twenty-five per cent of the lumber cut in Maine is wasted.

The Government encourages all the forestry schools to make their course as good as possible. Good jobs in store for all graduates of forestry courses.

Mr. Dana also states that the chances for a forester are better today than ever. He also gave a few rules that should be a help to the situation.

1. Carry out all forestry laws.
2. Carry out a larger educational program in this line.

After Mr. Dana had finished Prof. Briscoe showed a trunk of clothing that he had recently received from France and Germany, made from paper. All sorts of clothing and even stair mats.

They are not entirely paper but the cross fibres are twisted paper of small strips, while the up and down fibres are of cloth.

These clothes are being worn very much in foreign countries owing to the fact that cloth is not to be obtained.

NOTICES

There will be an important meeting of the Debating Society next Tuesday evening at seven o'clock the society will meet in Estabrooke Hall to discuss the negotiations for the Colby debate. All Maine students interested in debating are invited. Remember, it's in Estabrooke Hall, Tuesday at 7 P. M.

Juniors Pictures and Write-ups are due the first of December. Hand in your Grinds to "Ed" Kneeland.

Don't forget the Maine "Hello."

The Following Results From the Red Cross Drive

The results of the Red Cross drive conducted during the past week by the Y. M. C. A., the Y. W. C. A. and the Senior Sculls may be seen by the following figures.

Theta Chi	100 %
Kappa Sigma	100 %
Sigma Phi Sigma	100 %
Phi Gamma Delta	92 %
Sigma Nu	86 %
Sigma Chi	80 %
Beta Theta Pi	63 %
Alpha Tau Omega	61 %
Lambda Chi Alpha	61 %
Phi Eta Kappa	60 %
Sigma Alpha Epsilon	45 %
Phi Epsilon Pi	40 %
Phi Kappa Sigma	29 %
Dormitories	20 %
Delta Tau Delta	13 %
Mount Vernon	100 %
North Hall	89 %
Balentine	68 %
Maples	27 %
Phi Beta Pi	100 %
Phi Mu	100 %
Beta Gamma	79 %
Delta Delta Delta	78 %
Alpha Omicron Pi	73 %

Major James Tells Physicists of Firearms

On November 22, Major James spoke before the Physics Club on the subject of firearms and ballistics. He had with him many articles with which he demonstrated his lecture, such as the army rifle, shells, different kinds of powder, etc. He explained the use of firearms in warfare, the range of projectiles, advantage of the steel pointed over the lead pointed bullet, and other interesting subjects. He covered the topic thoroughly from the time powder was first used in warfare, at the Battle of Cressy, up to the present day.

Tri Sigma Initiated New Members Tuesday

Sigma Sigma Sigma is an honorary biological society which was founded at the University of Maine. A definite rank requirement is necessary and both men and women students are eligible. Also instructors and advanced students are admitted.

Their formal initiation was held on the evening of November 22 in Winslow Hall. After the initiation the members spent a social evening at the home of Miss Florence Chandler of Orono.

Hold Interesting Meeting Of Contributor's Club

The Contributors' Club held its usual bi-monthly meeting Thursday evening, November 17 in the library.

Several very interesting papers were read by members of the club and criticized by the remaining members.

It was decided to have a pendant and a certificate of membership. The meeting was very well attended and a great deal of enthusiasm was shown.

Phi Gamma Delta Has Informal House Dance

A very successful informal house party was given on Friday evening by the Phi Gamma Delta fraternity. About twenty couples attended the affair. A five piece orchestra furnished excellent music for an order of fourteen dances. During intermission, refreshments of ice cream and cake were served. The chaperones were Mrs. Estabrooke, and Mrs. Murray of Hampden Highlands.

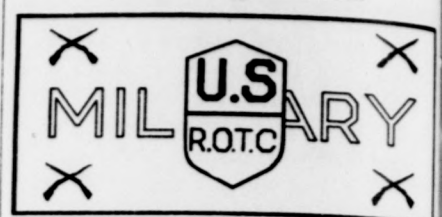
On of the most successful freshman smokers of the season was held at the Lambda Chi house last Wednesday evening. Cigars, cider and jokes were in abundance during the evening, and a good time was enjoyed by all. There were 34 men present.

At Iowa State University they have a drum seven feet in diameter and fifty inches in width to use at football games. The drum causes so much noise that at times cheering is drowned out. The instrument is mounted on a special carriage with two wheels and the entire instrument and carriage stand nine feet from the ground.

BALENTINE NOTES

Miss Cora Meserve has returned from her home in Greenville Junction. Miss Dora Ramsdell left Friday for her home in Lubec, where she is to be operated on for appendicitis.

Mrs. Hendrickson had as guests Sunday, Professor and Mrs. Lester Hill, Professor and Mrs. Loomis, of the faculty, Mr. Graffam and Mr. Sturtevant of Sigma Nu; Mr. Dempsey, Mr. Donovan, Mr. Whittier, Mr. Serpa from Theta Chi, and Mr. Frank Gould of Orono.



Company C is the most conspicuous company in the whole cadet corps. It is the company with the awfully small yet awfully handsome captain.

Explanation of Very Interesting Phenomena

By Dr. Charles P. Steinmetz

Likening the recent feat of the transmission of 1,000,000 volts of electricity to a flash of artificial lightning, recalls to my mind the almost astounding lack of knowledge on the part of many thousands of persons, about a very common natural phenomenon. I dare say that few correct answers to the question, what and why is lightning? would be turned in by students were this question asked in a college examination.

Were one to say that lightning is the passage of a very high voltage current of electricity within a cloud which only under exceptional circumstances leaves the cloud and reaches the earth, he would be right; yet asked to explain the known laws governing its behavior, I venture to predict that most of us would be "out of our depth."

Yet it is really not so complicated a question as appears at first glance. Lightning begins with a raindrop. A raindrop is made up of tiny particles of moisture. Numerous such particles unite and so form larger particles. These in turn, unite and ultimately a raindrop, from .1 to .2 of an inch in diameter, is formed. Each of these tiny particles of moisture contain a small charge of electricity, and as the particles unite to form the raindrop, all these electrical charges unite on the raindrop. The electric charge is contained on the surface of the raindrop. While the surface of the large raindrop is larger than that of each of the thousands of tiny drops which have come together to make up the one large drop, it is very much smaller than the sum of the surfaces of the thousands of tiny droplets, and the charges of all these droplets thus are collected and compressed on the surface of the one big drop; that is, the charge on the big drop is under much higher electric pressure, or 'voltage,' as it is called. But there is a limit to the electric pressure which the air can stand. When this is exceeded, the air breaks down electrically and the electric charge discharges by a spark—a lightning flash.

You have noticed that rainclouds are dark—sometimes black—shading off to lighter portions. The dark sections appear darker than the rest because they contain more moisture. Hence they are under higher electric pressure or voltage, and there is an unstable equilibrium, until finally the accumulation of electricity at one such point becomes sufficient to overcome the resistance of the intervening air, and there is a lightning flash and the voltage is equalized. This, however, causes a greater electric pressure difference between the path in which equalization has taken place, and the parts of the cloud outside of it, and so causes a second discharge, following over the path of the first then a third, and so on, until the inequalities are adjusted and equilibrium is restored. This phenomenon is similar to that of a landslide which starts another and yet another slide.

Thunder is another very much misunderstood conception. Thunder is the noise made by the lightning flash when discharged through the air, caused by the sudden expansion of the air due to the heat of the discharge. This is the same as the noise made by the sparks of our electric machines, or the noise made by the blowing of a fuse.

The similarity between the production of a million volts of electricity as was

(Continued on Page Three)

Pine Spills



Dean Stevens: Who was Robert Ingersoll?
Miss B.: A great manufacturer of cheap watches.

Dark Eyes: Yes, we used to go skating quite often with the Phi Etas and Phi Gams. Remember one time, when I went, that I nearly froze to death.

Wise Acre: Huh, you must have gone with a Phi Gam.

WIRED UP A BIT.

Junior: Sorry, old chap, but I am looking for a little financial succor, again.

Soph: You'll have to hunt further. I am not the little financial sucker I used to be.

—“Topics of the Day” Films.

SAFETY!

Tit (to new acquaintance): I wonder if that fat old girl is really trying to flirt with me?

Tot: I can easily find out by asking her—she's my wife.

—“Topics of the Day” Films.

Tis a bobbed cat that carries no tail.—“Aesop's Film Fables.”

Archie (absent-minded newlywed at store): I can't remember what I was sent for—a casserole or a camisole.

Clerk (giggling): Is the chicken dead or alive?

—Vaudeville News.

Heard during a pool game at a frat house—

M. D.: “Say Tommie, if you put English enough on the ball you can get that shot.”

T. T.: “A professor from the English department hasn't English enough to make that shot.”

LOST!

Oh little “Hortense”
So soft and so grey
From her home at the “Maples”
Has strayed away!

Tis whispered she's kidnapped
And held for reward;
By some bold bad brigands
She was snatched from her yard.

Her return would be welcomed
With shouts of glee
For such a cute kitten
You seldom see!

As to the reward—
You never can guess,
A box of fudge
And nothing less!

HYDRAULIC FIELD WORK FOR THE CIVIL ENGINEERS

By Prof. A. C. Lyon

One required part of the Civil Engineering curriculum at the University is a course called Hydraulic Field Work. This course consists of two trips per man to West Enfield bridge, where measurements of flow of the river are made, from which the rate of discharge at the time of the measurement can be computed. The computations are made in the office, and rating curves for the river are developed. Also, studies are made by field observation, plotting, and computation of the vertical velocities of the water.

This gaging station is located at a five span steel highway bridge about 1000 feet long, situated between West Enfield and Howland, crossing the Penobscot River just south of the mouth of the Piscataquis River. On the bridge is a standard U. S. G. S. chain and weight gage which is checked and kept in adjustment by the Civil Department of the University and of the State. Just below the bridge is installed a Friez continuous water-tape recorder, which was placed there and maintained by the associated power companies below. The Civils take observations on the velocity of the river by means of three small Price Current Meters, using the 2-10, 8-10 method. The results of these measurements are reported to the State and Federal offices and are published in the reports of the Maine Water Storage Commission and in the Water Supply Papers of Resources Branch of the U. S. G. S.

Studies of the principal rivers all over the country are being made in a similar way by the U. S. G. S., States, and private concerns.

The data obtained from these measurements is very valuable to all persons interested in water power, inland navigation, water supply, and irrigation, because for all these uses the most important and fundamental natural consideration is the flow of

water, its quantity, distribution and variation.

A study of stream flow data covering as many years as possible is the only way of estimating these conditions for any river.

CURRICULUM FOR ENGINEERS RESULT OF EXPERT STUDY

By Dean Boardman

Upon coming to college, a student is required to choose his studies according to the line of work which he intends to take up. If he is interested in Agriculture, he is assigned to a certain freshman curriculum. If he intends to follow Engineering or Chemistry, he is assigned to a somewhat different curriculum. Again, if he is not interested in either Agriculture or Engineering, but intends to obtain a general education, with a leaning towards say History or Mathematics, he consults with the Dean of the College of Arts and Sciences, and his curriculum is made up along those lines. How many students have given more than a passing thought to the question of how the various curricula originated, and whether or not they are made upon some rational foundation as a basis, or whether they follow the whim of the faculty or department heads?

Not many years ago, Engineering was looked upon as a trade, which could be learned by an apprentice system. Even after the college began to turn out embryo engineers, the chief requirement for entrance was that the young man should be unusually keen in Mathematics. Very little attention was paid in his course of study to anything outside of his engineering work. The result was that the young graduate, although he might be full of engineering facts, was usually unable to express those facts in any kind of logical, written or spoken, English. He was usually unable to discuss anything else than his profession, and usually only the small branch in which he happened to be working. It was soon noticed that something was the matter with engineering education. Various associations were formed for studying conditions and attempting to better them. Institutions all over the land began to see that they were mutually independent. Teaching experiments which were tried in various places were given publicity so that others might profit by the experience. The Department of Education, in Washington, made surveys of various institutions, the results of which were published. The Carnegie Foundation assisted the Society for the Promotion of Engineering Education, financially, to engage the services of a man who should make a personal study of engineering education, and after between two and three years' work a very complete report was published by the Foundation. The deans of engineering of the Land Grant Colleges have been meeting annually for the past eight years in order to bring about uniform methods which should be the best. A new association is about to be formed which will comprise the deans of all of the technical institutions in the United States. This will include Land Grant Colleges and state universities, as well as privately endowed institutions.

When a student is made to register for some subject in an engineering curriculum which does not appeal to him, and in which he can see very little good he should remember that his curriculum has been scanned very carefully, not only by the head of his department and the faculty of the institution, but that it conforms to the practice as recommended by educators all over the country. The schedule of studies is no longer a hit-or-miss affair. The apprentice system has given way to a method of education by trained experts, and all subjects which these experts expect students to take are given them with an object in view. The various curricula are by no means perfect, and there are many improvements which must take place before anything like perfection can be reached. Much assistance, however, can be given by the student, if instead of complaining at his schedule, he will take the subjects which are prescribed, and do the best he can with all of them.

This is especially true of those subjects which he thinks are not directly related to engineering. If he could only see the situation as it is; if he could only understand its needs in the same way that they are understood by the people who have made a study of the various curricula, he would give the assistance to the members of his faculty which he now denies. How many times have we seen the college graduate after several years' absence come back to his college and to his major professor, and tell him that he did not see the need of certain things until it was too late. It is difficult to take the experience of others, and this is especially true in the case of the young man who is just arriving at the time of vigorous manhood, when he considers that every-

thing must come out all right, no matter what the present seems to be. There are, however, certain facts which the young man in college will do well to heed. The changed conditions in the requirements for the success of an engineer demand that the narrow minded mathematical expert shall be replaced by one who not only has the ability to handle mathematics well, but also who is able to express himself clearly and forcefully, and who has in addition a fairly liberal education.

NEW FRESHMAN RULE GOES INTO EFFECT IN 1923

Effective in the Fall of 1923, a rule which provides that no freshman shall be a member of a varsity athletic team has been passed by the Athletic Board of this institution. Briefly the University of Maine has adopted the “freshman rule,” and is the first of the four Maine colleges to institute and incorporate in its athletic records a clause which will not allow competition by members of an entering class in major sports, which in the case of the university means football, baseball, track, cross country, relay and basketball. Announcement was made of this ruling from the office of the graduate manager, vote having been taken and passed at the weekly meeting of the Athletic Board October 18.

Back of the bare announcement which comes as a surprise to students, alumni and followers of U. of M.'s athletic interests and records lies a period in which the matter of freshman competing and becoming members of varsity teams, has been given serious thought. Systems of the larger colleges and universities throughout the country have been studied. Each case has been taken on its merits. And finally out of it all comes the adoption by the local athletic authorities.

The scheduling of the rule to become effective with the entering class of 1927 which will register at the University in September, 1923, is one, but considered by far the most important step taken by the authorities in the general reorganization of University athletics which commenced with Commencement in June of this year and which resulted in changes in athletic control, new hiring methods of coaches, longer contracts and a return of control of athletics to the student body which is directly responsible for their making and maintenance. The matter has been brewing for some period, alumni having talked of it, faculty have urged it, general sentiment expressed by those familiar with the University and its athletic interests has been gathered with the result that the matter came to a head at the athletic board meeting Tuesday evening and after much discussion was passed and made a record.

The proposition is not a new one to college or university sportdom. It is in vogue by the big institutions, has shown its success and is not something to be tried, and finally dropped among the discarded customs which have not been successful. Maine is simply following suit and has taken the step ahead of the others of her own state, pointing perhaps prophetically to the time when all will see the need of the freshman rule instituted and adopt a similar system whereby the freshman is not eligible to compete on varsity teams in major sports. Like all other institutions the University has gauged the time for this ruling to become effective.

Many objections were raised to the matter when the subject first came up for discussion. The first was of the general handicap the ruling would make and while this is perhaps a fact, the board and members of the body which granted the rule passage have expressed themselves that within a few years, although it would seem inadvisable to adopt the ruling, the step will prove beneficial to the university in more than one way and the action then looked back upon as a bit of wise counselling. Many protested saying that adoption of this rule would mean a barrier between the prospective student with athletic ability and entrance to the University. The answer has been made by a statement to the effect that this rule has not prevented the larger institutions where it is an athletic law from attaining high climes with good athletic teams and its college halls still receiving the athlete. The statement has been further made that the athlete who is discouraged and will not enter the university because it has this ruling, is not the type of man or athlete the university wants to admit.

The adoption of this ruling will prevent the registration of the professional athlete who enters the college or university to play football, baseball, track, cross country, or basketball for a year, to leave on the completion of “the season” whichever the case may be and thereupon enter another institution where he can make for himself—and not for his Alma Mater—honor on the gridiron, diamond, cinder path

or basketball court. The local authorities state that this type of athlete should be discouraged. The above objections offered, the promoters of the freshman rule have counteracted by claiming that although a possible handicap would be exacted for the first year or first two or three years it was effective yet in the end, the University will have gained, will have built about itself better athletic teams and can put out teams of the class and type which will be a credit and whose success will reflect back upon the institution, their parent.

The intangible and undefinable bit of something known as college and university spirit will be greatly strengthened, is the belief of those who were active in making the freshman ruling become effective. Freshmen come to an institution of higher learning from a preparatory or high school and attempt in a year to grasp every bit of a life which is entirely different to any known to them before. Athletes who have played in schools where there has been a disorganized system of coaching, authorization and athletic direction fail to grasp in the one year the fundamentals and the “whys” which are back of all college and university teams, college spirit. College spirit which produced fight and competition to strive to win not for the individual but for the institution will be bettered by the ruling, so think those who have fostered the proposition.

The scholastic side of the freshman was given careful consideration. Records show that the students who masters his first year's work triumphantly in the class room, with proper application and study meets with no difficulty whatsoever during the remainder of his collegiate course. The freshman who is athletically inclined and becomes a member of a varsity team is inclined to let his success and his “making” of the team become the most important part of his college course for that year and with the result that at the end of his first year he is “disabled” scholastically and lost to his coaches for further use during the greater part of his collegiate course. The freshman rule would prevent this to a great extent, argue its promoters.

It is the plan of the local athletic authorities to promote freshman athletics. Freshman teams will be constructed out of the material from its class in all the sports in which varsity teams are maintained. Suitable coaches will be provided for these teams, schedules will be drawn and freshman athletics will be conducted on a strict and as sound a business basis as that upon which varsity teams are managed, the work of these teams will receive the supervision of the U. of M. Athletic Board and games will be arranged and played with freshman outfits of other colleges and universities and with leading preparatory and high schools.

INTRA COLLEGIATE SPIRIT AT UNIVERSITY OF MAINE

By W. R. McDonald

We have all read, when we were in the grades and our early years in high school, of college spirit. It has always been our desire and ambition to participate in college events, perhaps picturing ourselves as the heroes of various sports in our so-called “day dreams”—but, on entering college, what becomes of our “day dreams,” or of our super-saturated ambition? Just this, we haven't that distinctive personality, fight, and initiative principles of our fathers or of the college men of yesterday. Perhaps a great deal of college spirit is lost due to the rush with which pupils are sent thru the grades and “prep” schools, as students nowadays on entering college find themselves smaller than those of yesterday in stature, and younger in age, consequently are afraid to go out for heavy events as “they might get their hands dirty,” or themselves “roughed up” a bit.

As to university spirit it is a thousand times worse off than college spirit. The universities as a rule have a larger registration than that of the colleges. This large registration causes a decrease in university spirit, strange as it may seem, since so few go out for athletic events that nineteenth, which is generally the body who do nothing of any help to their college, of the student body lose interest. It doesn't make any difference where you go you will find that the smaller the college the greater the spirit.

The subject of my article is Intra Collegiate Spirit at the University of Maine, or a means by which to put the University of Maine as a 100% University in Student Spirit. Now fellows! listen!

We have three large colleges on the campus, viz.: College of Agriculture, College of Arts and Sciences, and College of Technology. There are five important athletic events in the course of a college year, i. e., Football, Cross Country, Basketball, Track, and Baseball, occurring in or-

der named. There will be three of those five to be seasoned out this year. Now I suggest that the athletic association of the university, the deans of the three colleges, and the student body look into this idea with something else besides their eyes. The main idea or suggestion to form student spirit, and get some new men out, is as follows:

At Commencement let the athletic association of the University present a championship cup to the college, here on the campus, being the champion of the greatest number of the five events. I am sure that Dean Merrill, Dean Stevens, or Dean Boardman would be proud to have the cup in his office.

Personally, I believe this would be an ideal plan for getting new men and new material on the campus, as there would be four good teams in each event, one for each college and the varsity. This would give the coaches a good assortment to pick the varsity squad.

I propose that each college elect an athletic board to direct activities, etc., subject to the supervision of the Athletic Association of the University. The said board would consider the rulings of each event and under what condition a student may earn the letters of his respective college, with the letter of the university preceding, as M. C. A., M. C. A. S., M. C. T. for the three colleges.

Now, next Monday there will be three ballot boxes in Alumni Hall, one for each college on the campus, so let every student who has considered this article and thinks it is worthy of a trout put his name in the ballot box of his college. This will be considered as a straw vote in order to give the University some idea of the question at stake.

Come on fellows, make your college the leading college at the University and your University a leader among institutions.

All right fellows, the whistle is blowing—let's go for a touchdown.

“Bill” MacDonald.

—M—

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REPORTS FROM REGISTRAR SHOW UNIVERSITY AVERAGE

The scholastic standing of the University for the spring semester of 1921, according to records at the registrar's office, was 1.989. This compares very favorably with the preceding semester, but is hardly up to the standard of the spring of 1920. Phi Kappa Phi, as might be expected, again had the place of highest honor society, having a rank of 3.489; and Alpha Zeta, the agricultural honorary society, was second, with an average of 2.948. The average of the women was 2.434, a little lower than the average of the sororities, which was 2.507. The men's average of 1.868 did not quite come up to that of the University. The non-fraternity men were slightly higher than this, with an average of 1.964. Pi Beta Phi had the highest honor of the sororities, having an average of 2.747, while Phi Epsilon Pi held first place among the fraternities with an average of 2.220. The following shows the averages of all organizations on the campus, in the order of their standing:

Fraternities.	Spring 1921.
Phi Kappa Phi	3.489
Alpha Zeta	2.948
Tau Beta Pi	2.840
Pi Beta Phi	2.747
Average of Sorority Girls	2.525
Alpha Omicron Pi	2.521
Delta Delta Delta	2.515
Average of the 5 Sororities	2.507
Average of all Women	2.434
Beta Gamma	2.424
Phi Mu	2.329
Average of Non-Sorority Girls	2.299
Phi Epsilon Pi	2.220
Lambda Chi Alpha	2.078
Alpha Chi Sigma	2.069
Phi Eta Kappa	1.997
Average of the University	1.989
Sigma Phi Sigma (Lambda Delta)	1.966
Average of Non-Fraternity	1.964
Phi Gamma Delta	1.949
Phi Kappa Sigma	1.869
Average of all Men	1.868
Average of the 14 Fraternities	1.798
Average of Fraternity Men	1.797
Sigma Alpha Epsilon	1.693
Beta Theta Pi	1.673
Delta Tau Delta	1.669
Kappa Sigma	1.647
Sigma Chi	1.642
Sigma Nu	1.636
Theta Chi	1.630
Alpha Tau Omega	1.506
Other organizations:	
Practical Husbandry	2.815
Sigma Sigma Sigma	2.672
Women's Musical Clubs	2.539
Campus Board	2.430
Prism	2.147
Scabbard and Blade	2.119
Senior Skulls	2.113
Junior Masks	2.089
Average of the University	1.989
M Club	1.805
Men's Musical Clubs	1.703
Band	1.623
Sophomore Owls	1.446

GERMAN PAPER CLOTHES ARRIVE HERE IN TRUNK

A very interesting trunk arrived on the campus last week addressed to Professor Briscoe of the Agricultural Department. It contained a curious variety of clothes made of the German paper cloth, which are being displayed in the Home Economics laboratory at Winslow Hall. This paper cloth was introduced in Germany during the war and is a good example of what can be done with paper and pulp.

The articles made of the material include men's suits at 18 marks or 29 cents, a woman's apron at 48 crowns or 24 cents, stair rugs at 68 crowns or 37 cents per yard, and curtains, raincoats, dresses, and laundry bags.

This trunk is being sent around the country by the Department of Commerce and Labor to show the great possibilities in paper and pulp.

UNIVERSITY OF MAINE ALUMNI ASSOCIATION OF PHILADELPHIA

Affiliated with
The Engineers Club of Philadelphia
1317 Spruce St.

Meetings, preceded by a dinner, are held on the first Friday night of every month with the exception of July, August and September.

Maine men who are in or near the city on these dates will be expected to come to the Club or notify the Secretary so that we can entertain you.

President: E. L. Watson '01, Signal Office, Broad St. Station.

Secretary: H. C. Pritham '01, Frankford Arsenal Residence, 5436 No. 11th St.

SING IN CHAPEL.

MT. VERNON NOTES

Corinne Furbush of Bangor was the guest of Eleanor Murray for over Friday night.

The following girls spent the weekend at home: Charlotte Crosby, Mary and Alice Bunker, Grace Coombs, and Rowen Hersey.

Katherine Sargent and Marie Hodgson returned Saturday from the National Student Government Convention at Simmons College.

Phi Gamma Delta entertained the following Mt. Vernon girls at dinner on Sunday: Sarah Wiswell, Eleanor Murray, Marjory Willey, Katherine Sargent, Hortense Bryant, and Arabelle Hamilton.

Miss Thompson of Houlton is visiting her sister Vera, who is recovering from tonsillitis.

Mrs. Peckett is the guest of her daughter Edith.

Margaret Manchester was the luncheon guest of Margaret Mason in Bangor, Saturday.

Owing to the indisposition of the cook, Mary Ellis, the Mt. Vernon girls served their own suppers Friday and Saturday nights.

Mrs. G. S. Murray of Hampden Heights was the guest of her daughter Eleanor for over Saturday.

BE MAINE MAINE.

INTRA-MURAL BASKETBALL

By Pooch II.

The intra-mural basketball season is here, and the first games are on the twenty-ninth of November. If each house and the dorms have not appointed their managers as yet they should do so at once. This year we want to make intra-mural basketball better than it has ever been. Each manager should get his team together as often as possible, in order that there be as great competition as possible for the championships and those cups.

Referees will be appointed as far as possible from the student body. The referees shall be agreed upon by the managers of the contesting teams, and reported to the athletic director forty-eight hours before the games. If a referee cannot be agreed upon, one of the athletic coaches will referee.

This year we want good clean, hard competition and playing. Last year there was some talk of rough and unfair playing. This year we do not want any of this. When you are on the basketball court remember you are not playing football! Let each man on each team play his hardest and cleanest so that we can have a good series and so that the championships will be won fairly and squarely, giving no opportunity for any one to crab.

No admission will be charged this year, so let's have big crowds at every game, whether it is your team that is playing or not. Co-eds, we want your presence also! Come on now everybody, let's go, and make intra-mural a big success this year.

WE NEED MORE REPORTERS.

"Do you always drive in your auto alone?"

"Oh, no; I usually run across somebody before I have gone far."

—"Topics of the Day" Films.

KINDA FUNNY.

Neighbor: "And how is your poor husband, Mrs. Jones?"

Mrs. Jones: "He suffers something awful with his foot, sir, and I know what it's like because I've had it in my eye."

—"Topics of the Day" Films.

FITTING FIRST AID.

Faint, Fat Shopper: Where can I get something to stay my stomach?

Floor Walker: At the corset counter—rear, third.

—"Topics of the Day" Films.

HE KNEW GIRLS.

May: Meet you tomorrow night, usual place, seven o'clock.

Ray: Right! What time will you be there?

—"Topics of the Day" Films.

Old gentleman (to street gamin): How old are you, little boy?

Hansel: Five years, sir.

Old gentleman: You must be mistaken. You couldn't get that dirty in five years.

—"Topics of the Day" Films.

Hello Girl! Some of the things said over the wires are not fit for me to hear.

Lineman: Aw, you can't expect to work around electricity and not get shocked.

—"Topics of the Day" Films.

SING IN CHAPEL.

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Buster Keaton in "HIGH SIGN"
Gladys Brockwell in "THE SAGE HEN"
News

Friday, Nov. 25
Catherine MacDonald

"NOTORIOUS MISS LISLE"

Saturday, Nov. 26
Herbert Rawlinson
"MAN AND HIS WOMAN"

Monday, Nov. 28
Norma Talmadge
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It is said that Coach Flack was to-
sing the ball during basketball practice
one day last week. He was wearing a
pair of red running pants. Some honor-
able member of the class of 1925 re-
marked from the side lines that the fel-
low in the red pants ought to make the
team.

Explanation of Very Interesting Phenomena

(Continued from Page Two)

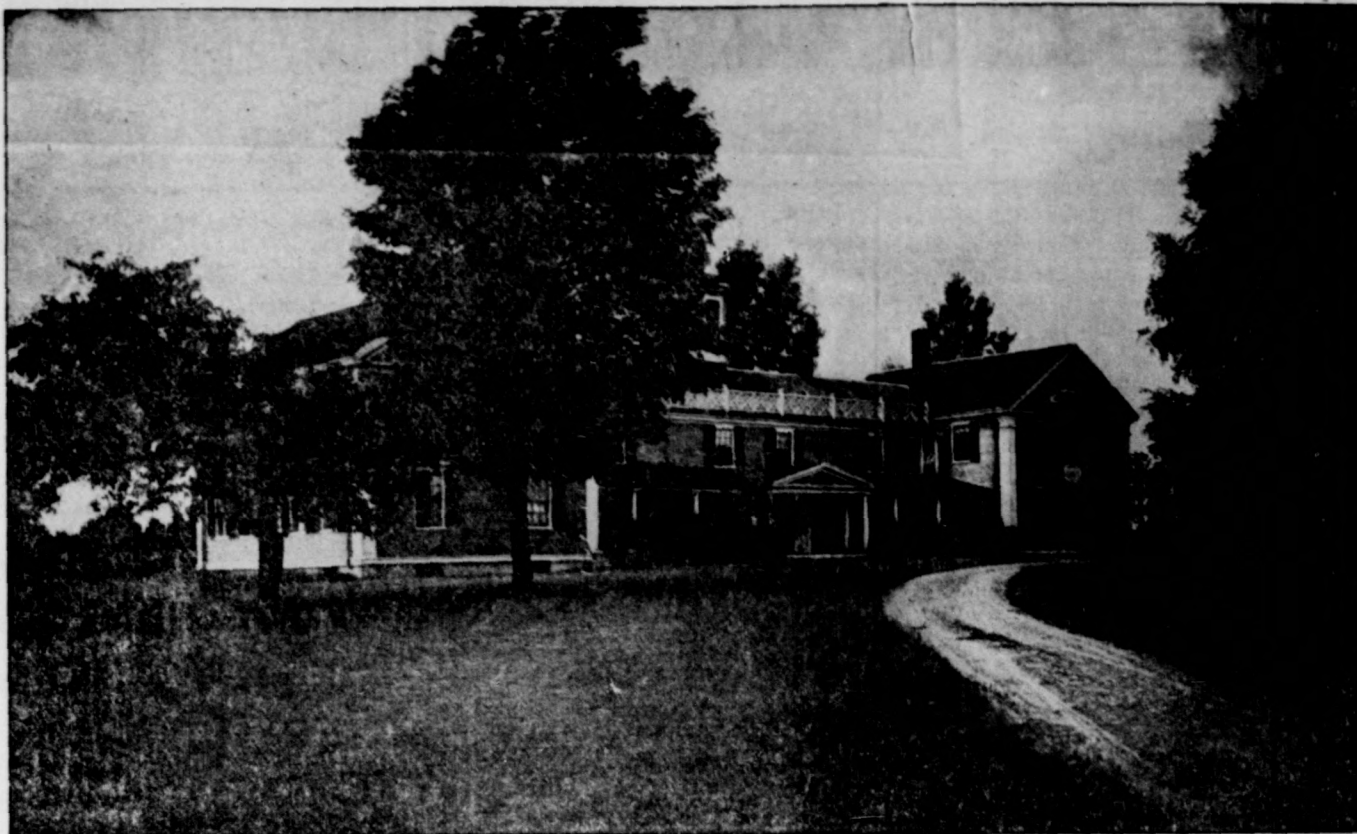
recently accomplished at the high volt-
age engineering laboratory of the Gen-
eral Electric Company's Pittsfield plant,
and a lightning flash is merely one o.
relative electric pressures. One million
volts is without doubt man's nearest ap-
proach to the electric pressure of light-
ning; yet it represents much more po-
tential usefulness than we may ever
hope to obtain from lightning. The
reason for this is that lightning gives
off its energy at an enormously rapid
rate—representing great power and
many million kilowatts—but lasting only
about one ten-thousandth of a second.
Its effect therefore is explosive.

The real comparison between light-
ning and a million volts, and I do not
think this has been sufficiently clearly
brought out, may be likened to that be-
tween a pound of dynamite and a gal-
lon of gasoline. The gasoline contains
more energy than the dynamite but the
dynamite gives off its energy instantly
and produces explosive effects which the
gasoline cannot produce because it de-
velops its energy only gradually. So
lightning, although it represents large
current and great power, lasts such a
very short time that the energy value,
even if it could be completely collected,
is small—only a few cents.

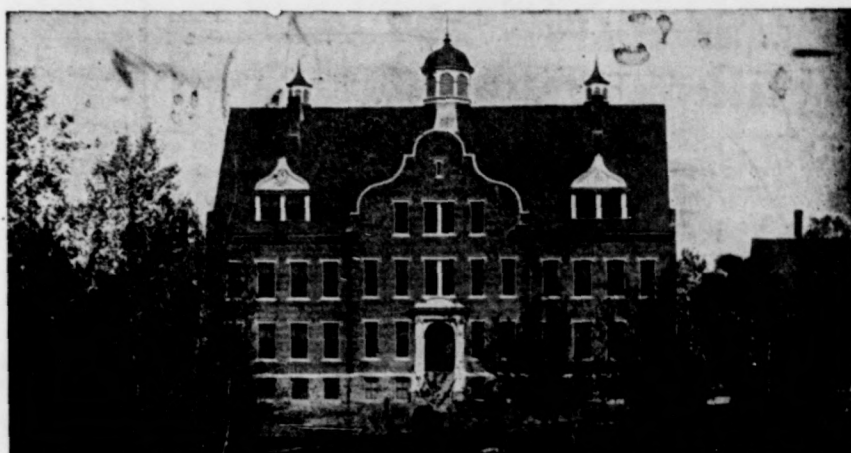
The extension of new knowledge
brought to light by these interesting
tests at a million volts will undoubtedly
uncover a broader field for the trans-
mission of electric energy, than was
ever dreamed of 40 years ago when
Edison first transmitted electricity at a
mere 220 volts. Just what this will
represent remains for the future to de-
cide. Today it may be considered one of
the triumphs of scientific research which
has once more widened our horizon and
taught us new facts about the still so
little understood phenomena of elect-
ricity.

Only in the last years, with the ad-
vance of electrical engineering, science
has become able to understand and ex-
plain the electrical phenomena of the
thunderstorm, to calculate the voltage
and the energy of the lightning flash
which we now estimate at an average
of 50,000,000 volts. It is hard to con-
ceive what 50 million volts means. 500
volts will kill a man, and the lightning
flash is 100,000 times as much.

When Edison ran his first wires for
electric lighting, he used 220 volts. To-
day we are sending electric power across
the country at 220,000 volts. Thus in the
40 years since Edison's first installation
we have increased the voltage in our
electric circuits a thousand fold; we
have produced and experimented with
over a million volts, and the voltage of
the thundercloud is only 50 times higher
than which man has produced. So you
see, the step from the highest voltage
now used, to that of lightning, is less
than was the step which the electrical
industry has taken in the last 40 years.



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young doctors are judged by something more than
diagnostic ability and knowledge of their subject. The at-
mosphere of success plays its part—the evidence that you
have "arrived." And among the little details that indicate
success, there's the habit of preferring

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