

THE TECH

VOL. XXXIV. NO. 104.

BOSTON, MASS., WEDNESDAY, MARCH 24, 1915.

PRICE THREE CENTS

CHEMICAL SOCIETY HAS BIG REVIVAL MEETING

Over A Hundred Present Last Evening---Talks Given
On Independence Of American Industries
---Professors Give Addresses.

MAYOR TO SPEAK

Boston's Chief Executive Will
Address Catholic Club.

As announced on the bulletin boards, the mayor of Boston will be the speaker at the regular supper and meeting of the Catholic Club this evening. Mayor Curley is one of the best orators of the country and as a man well versed in politics he is in a good position to tell of the details of running the government. As a subject of interest to the majority of students and one that His Honor can well explain, he has chosen to speak of some of the intricate details connected with the management of a municipality such as Boston.

It is usually difficult to secure busy public men for such events as the meeting tonight, but Mayor Curley has assured C. A. Blodgett, the President of the Club, that he will be present unless something happens to the city. In an interview last evening President Blodgett said: "Tomorrow's meeting will be one of the most important of this year. We have obtained a speaker who is going to make us listen closely to every word. I hope that every club member will be present. It is to be understood that the meeting is open to anyone connected with the Institute." The supper will begin at 6 o'clock sharp.

SOPHOMORE BASEBALL

Candidates for the second year baseball team are to report for practice today. As announced in Monday's issue of The Tech, a diamond on one of the playgrounds of the City of Cambridge has been obtained for the men to work on. To reach the grounds take any Commonwealth avenue car and transfer or walk across the Cottage Farm bridge and then a short distance past the Ford plant along the River Road. As the field is to be used alternately by the Sophomores and freshmen, all second year men must be at hand today at 4.00 sharp.

SOPHOMORE RELAY

The 1917 Relay team will hold a meeting Friday at 1.30. All members are requested to be present at the Union at the appointed time.

Over one hundred men attended the meeting of the recently rejuvenated Chemical Society last evening in the Union. The meeting was devoted largely to a discussion of the development of the chemical industries and the qualities chemists should display to make such industries successful. The enthusiasm shown by those present augurs well for an energetic and active society henceforth.



WILLIAM H. WALKER
Head of Course Ten

The speakers of the evening were Professors F. J. Moore, W. K. Lewis, F. H. Thorp, and W. H. Walker, head of the Chemical Engineering Department, all of the Institute; and Professor J. F. Norris, head of the Chemistry Department of Simmons College. Professor Norris was formerly Assistant Professor of Organic Chemistry at Technology.

At the opening of the meeting T. F. Spear, '15, the President of the Chemical Society, stated that the So-

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SWIMMING TEAM

A meeting of the Swimming Team will be held in the Union at 5 p. m. this afternoon. The following are to report: H. D. Bevins, A. H. Bond, W. C. Foster, R. N. Gay, H. P. Geisler, W. L. Graves, J. M. Hanley, G. S. Gould, F. Hazard, N. V. S. Mumford and E. M. Newton.

The purpose of the meeting will be to elect a captain, manager and assistant manager for next season.

MILITARY INSTRUCTION CAMPS FOR STUDENTS

Life At The Camps Described
By Undergraduate Who Has
Attended Two.

The following article describing the recently established military instruction camps was written by an Institute man who has attended the camps during two summers, and should be of interest to any who may care to investigate the subject further.

In the spring of 1913, General Wood, then Chief of Staff of the United States Army, decided upon a plan for giving to college students and graduates a summer course in military instruction. The object of this training is to give the young men of this country a knowledge of military matters sufficient to enable them to better discharge their duty to the country should a necessity for their service ever occur.

Early in the spring of 1913 a bulletin describing the proposed camps was published. Emphasis was laid upon the beneficial effects of a summer outing such as the camps would afford, both as regards the military

(Continued on Page Three)

TRACK ATHLETICS UNDER FULL SWING

Prospects For A Successful
Season Exceedingly
Bright.

The track squad has started its outdoor season in earnest with a squad of fifty men doing regular practice. Coach Kanaly is working the men out at the new field and has some good material out of which to form a team to represent the Institute in the spring meets. The team has a hard schedule which includes Holy Cross and Brown, as well as the two intercollegiates, and the interclass meet, which will probably be held April 17.

The field events are the weakest although the jumpers are above the average. The weakest running event is the 440. This is caused by the loss of Peaslee by graduation and Tom Guething through the four years' rule. The most promising candi-

(Continued on Page Three)

ART COMPETITION

The Committee on the "Art Editor's Competition" for Technique 1917 has decided to make the third of the requirements for candidates optional. This original stipulation read: "Third—A black and white drawing size 9 1-2 by 13 1-2 inches for the 'Institute Organizations' section of the book." The requirements were published in full in last Friday's issue of The Tech.

WORLD-FAMED SPEAKER SECURED BY T. C. A.

G. Sherwood Eddy, Missionary
In Asia, At Technology On
April Thirteenth.

One of the best T. C. A. talks of the year will be held April 13 when George Sherwood Eddy will speak before the students. Great effort has been spent in securing this man, who is undoubtedly the greatest Christian Association speaker in the world. He is to speak before the Boston City Club the same evening with ex-President Taft.

Mr. Eddy, for the most part, has done missionary work in Asia and has recently conferred with Yuan Shih-Kai, president of China, at the invitation of the president. For several years Mr. Eddy has been giving a series of addresses at the largest educational centers of Asia, especially China. These addresses have been given at the request of officials who have called recesses in the schools in order that all pupils might attend them. Governors, in several cases, have built at their own expense pavilions holding from three to five thousand persons.

In the past few years Mr. Eddy has been invited to give a series of four or five talks in several of the Amer-

(Continued on Page Two)

COURSE TWO SOCIETY

Mr. Fairbanks, Refrigeration Ex-
pert To Give Talk.

There will be a meeting of the Course Two Society this afternoon at four o'clock in 11 Engineering B, at which Mr. Fairbanks, chief engineer of the Quincy Market Cold Storage & Warehouse Company, will speak. The talk will deal in general with the practical side of refrigeration, including a description of the design and construction of the large ammonia compressor at the Sargent's Wharf Station.

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CALENDAR

Wednesday, March 24, 1915.
4.00—1917 Baseball Practice. Cambridge.
4.00—M. E. Soc. Meeting. 11 Eng. B. Room A.
4.30—Rowing Club Meeting. Union.
4.30—1915 Class Day Committee. 20 Eng. B.
5.00—Swimming Team Meeting. Union.
6.00—Catholic Club Meeting. Union. Room A.
Thursday, March 25, 1915.
1.30—T. C. A. Talk. Union.
4.00—1918 Baseball Meeting. Gym.

THE TECH

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WEDNESDAY, MARCH 24, 1915

The Technology Christian Association has given an excellent account of its stewardship in inducing Mr. Eddy to speak before the student body at the Institute. It is no easy matter in obtaining a man of the mental stature of Mr. Eddy. In no small way does the coming talk serve as a climax to the series of noon hour addresses conducted by the Association.

The Chemical Society made an auspicious beginning last evening on the praiseworthy course which it intends to follow. Its officers and the faculty members of the Chemistry Department, particularly Professor Walker, are to be commended for their zeal and energy in reviving interest in the Society. It is to be hoped that the undergraduates will continue to respond with such deserved enthusiasm.

ARCHITECTS SMOKER

Boston And Harvard Men Will Be Guests of Local Society.

The M. I. T. Architectural Society will act as hosts to the members of the Boston Architectural Club and of the Architectural department at Harvard at a smoker Thursday evening. The feature of the occasion is to be a criticism of the drawings submitted in the recent fifty-dollar prize competition. These criticisms will be made by the men who acted as judges in the contest. In addition to this attraction there will be an abundance of refreshments for all. An invitation is extended to all freshmen architects to be present.

HOSPITAL BENEFIT

For the benefit of hospitals in Serbia a stereopticon lecture on "Saunterings in Spain" will be given by Mrs. William T. Sedgwick, wife of Professor Sedgwick of the Institute, on April 6, 1915, at 4.30, in Room 23 Walker. Tickets may be obtained at the Registrar's office for fifty cents. None will be sold at the door.

REFRIGERATION TALK

(Continued from Page Six)

Mr. Fairbanks has been in the refrigeration business for many years. He has made numerous improvements on machines, and has designed a 1000 ton machine in a single unit which involves many unique economic features. A fair idea of the size of the plant he represents may be gained from the facts that it supplies eight hundred separate services, using over six miles of piping. In hot weather, as much as fifty million gallons of brine are circulated daily. Mr. Fairbank's talk will be illustrated by sixty lantern slides, and he will be glad to answer any questions with regard to refrigeration.

EDDY TO SPEAK

(Continued from Page One)

ican universities. Last year he addressed the students at the University of California and at Pennsylvania State College. At the latter school about seventeen hundred students heard each of his four lectures. On February 14 of this year he was at Yale, where about one thousand were present at the meetings.

Mr. Eddy has received a great deal of publicity in the Outlook and other current magazines. His very wide experience and popularity will make him the most interesting speaker of this year's series.

Reverend G. R. Maguire will give a talk tomorrow in the Union. The subject selected is "Three Crosses." Mr. Maguire is a fellow of the Royal Geographic Society and has spent several years in Africa as a missionary and explorer. His many interesting experiences in the heart of Africa will probably find place in his talk tomorrow.

CROSS COUNTRY RACE

First And Second Year Men In Annual Competition.

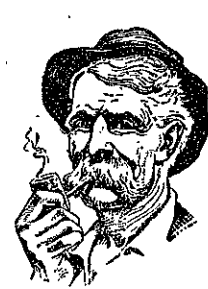
The spring Cross Country race between the Sophomores and the freshmen will be held next Saturday afternoon. The Track management has secured the use of the old New England course at Franklin Park, which was also used for the Intercollegiate Meet last fall. The Refectory at the Park will provide necessary dressing quarters. Entries for this event may be made either in the book at the Union or at the Field locker building.

To make it more interesting to the upperclassmen who usually run over the track, the Intercourse meet will be held at the same time. Freshmen and Sophomores are to be scored in their particular course run as well as in the event of the day.

FRESHMAN BASEBALL

Last Monday only a few candidates for the 1918 baseball team showed up for practice. Tomorrow the men will meet at the gym at four and from there will go to the Columbus Avenue playgrounds in a body for practice. After practice elections for captain will be held. It is important that every man show up, as the first game comes a week from Saturday.

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MILITARY CAMP (Continued from Page One)

knowledge to be obtained and the broadening influences of intimate contact between men of different colleges. The military value of the camps was described as lying in the wide dissemination of military knowledge and in the training of a number of men from whom volunteer officers could be picked in time of need. A number of officers of the regular army were assigned to the camps for instruction purposes and detachments of regular troops were ordered to attend for the same purpose. The students were to be organized into infantry companies under command of regular officers. The uniform was specified as the field service uniform of the army, with the exception of the hat cord. A special hat cord distinctive of the student companies was designed and furnished with the uniform. Since no Congressional appropriation was obtainable the students were required to pay their own expenses. These were made as small as possible by locating the camps near centers of population, by furnishing uniforms at as low cost as possible, and by supplying rations at Quartermaster's prices. Full equipment was furnished free of charge, together with blankets, tentage and other necessities.

The number of camps held in 1913 was two, one being at Gettysburg, Pa., the other at Monterey, Cal. The number of students was relatively small, there being 159 at Gettysburg and 63 at Monterey. When, however, the novelty of the plan is considered, the number of students shows in its true light. These men devoted a considerable part of their summer vacation to the trying out of a new scheme, their only reason for attendance being an active interest in the subject. Needless to say the results obtained from the first camps far exceeded all expectations and the War Department was convinced of the soundness of the plan.

At the Gettysburg camp which was opened on the site of and immediately following the encampment of veterans for the July 4th celebration, 159 men reported for duty. Sixty-one colleges and other institutions of learning were represented. At the Monterey camp there were 63 students, representing 29 colleges. At both camps progress was very rapid. Statements made by the officers were to the effect that the men learned as much in one week as an ordinary enlisted man learns in six months. This spoke very highly for the instruction given and for the interest exhibited by the students. Probably the chief reason for the rapid advancement was the fact that the men not only had the training given enlisted men but they also had the training given to officers. Thus they obtained a better conception of the underlying principles of military science and tactics.

Instruction was given in all branches of the service, and, as far as was possible, the men were allowed to specialize in any desired branch. As soon as enough work in close order drill had been done to enable simple company movements to be executed without confusion, extended order and tactical work were

TRACK PROSPECTS (Continued from Page One)

dates for these vacancies are Brook, a short distance relay man; Dean and Doon. In the half mile C. T. Gue-thing looks like the best man while Hamilton and Coward, freshmen, are both showing speed.

The mile event is very strong inasmuch as Brown and Allan are expected to place in the N. E. I. C. Both ran in the four-mile relay team that finished second to Cornell at Madison Square. A. A. Brown already has a fine record and the form shown by Allan would predict that he will do better than 4:30 by the time the season is under way. In the two miles Capt. Cook is the fastest man.

Sullivan, Teeson and Gokey are showing up best in the high jump with Reid in the broad jump. Huff and Foster can be counted on in the hurdles; and Noone in the weight events and Brownie, a freshman, at the discus, make a good pair.

taken up. The combat work was graded from simple illustrative maneuvers to more complex "combats" in which the student company operated against the regular troops. In these maneuvers the students bore themselves very creditably and several times forced the regulars to retire.

The last two weeks of the Gettysburg camp were occupied in a march to Mount Gretna, Pa., and in target practice after arriving there. The march was divided into several stages, maneuvers being carried on over the entire distance. The rifle practice turned out very successfully, 110 men qualifying as marksmen out of 146 taking part in the practice.

Before the close of the camp a meeting was held and the students organized themselves into a society for the perpetuation of the camps for the training of reserve officers. An advisory board of college presidents was elected and President Drinker of Lehigh was made president of the society.

During the winter following the 1913 camps a great deal of interest was awakened throughout the country. In view of the number of applications for attendance received by the War Department it was decided to hold four camps during the summer of 1914. One was to be at Asheville, N. C., one at Burlington, Vt., one at Ludington, Mich., and one at Monterey, Cal. The general object of the camps was the same as before but the requirements for attendance were made more strict. Only citizens between the ages of 18 and 30, physically qualified to undertake the work and recommended by the heads of their respective colleges were allowed to attend. The outlay for meals was slightly increased on the basis of experience obtained at the previous camps and a deposit on all equipment issued was required. This deposit was of course returned at the end of the camp if there had been no loss or damage to equipment. As before all travelling expenses and the cost of the uniform had to be borne by the students.

An extension of the previous plan

(Continued on Page Five)



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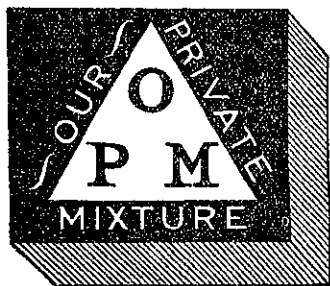
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CHEMICAL SOCIETY (Continued from Page One)

ciety proposed to hold gatherings of a similar nature throughout the term, to keep men in touch with current problems, and exert a general broadening influence.

Professor Moore, the first speaker, discussed the possibility of developing the coal tar industry in this country, under the stimulus given by the present war. He first reviewed the growth of the German industry, which is at present supreme, saying that its success was due largely to its purely scientific basis, the perseverance of the Germans, patronage by the government, and administration by chemists, not financiers. Professor Moore then enumerated the objections to the introduction of dyestuff in preparation, and proceeded to refute most of them. The textile industry, he said, is now beginning to realize the importance of home production, and will look more favorably upon such a project. The field, therefore, is fairly promising from the financial standpoint.

The one essential from the technical viewpoint, according to Professor Moore, is competent chemists; chemists for general organic research, specialists in certain operations, physical chemists to study catalysis, and plant design experts. As an example of the continually changing conditions which demand constant attention, he cited the case of artificial indigo. With the industry developed in a purely scientific manner, he believes we might favorably compete with foreign production. Success depends largely on the men who are now studying in institutions like Technology.

Professor Lewis then spoke on "Moderation." He said that a century ago individuality was overdone. Now the tendency is toward the other extreme, and organization completely overshadowed the individual. He urged that the students be loyal to the organization but at the same time not to permit it to destroy their individuality. In the same manner, they should treat the Chemical Society with moderation, not allowing it to occupy too much of their time but at the same time take an interest in it.

The next speaker, Professor Thorp, gave his opinion of the probable duration of the war and its effect on the German chemical industries. He pointed out that since the allies had blockaded Germany and had cut off supplies of all kinds, the German chemists would have to solve the problem of producing in their own country the substances that they needed. As an example they would have to find a new way of preparing nitric acid since the supply of Chili saltpeter was cut off. In all probability they would devise a method of preparing it from atmospheric nitrogen.

The food supply will last for a long time because of the improved methods of agriculture by which all of the soil is utilized to get the best results. The only way in which the food supply would be endangered would be by invasion. Thus it would seem that Germany could do without

CREW IS NOT BEING WELL SUPPORTED

Prospects Bright For The Season —Very Little Enthusiasm Has Been Shown.

The enthusiastic interest in rowing, which for the last two years has run very high, seems to be lacking this year. So far the men have been out on the water twice and practice on the machines has been going on for the last two weeks, yet despite this fact, the showing made so far, as regards the number of men who have come out, has been anything but cheerful. Although the time which the men have at their disposal is exceedingly limited, in fact more so than in other colleges, last year saw on an average, forty men out for places each day. In addition, the boathouse is not as conveniently located as could be hoped for. There is no hope of making rowing a Varsity sport until more men come out and support the crew and insure the financial success.

Coach Stevens is giving his time gratis for the third successive season, but he can hardly be expected to come around to the fellows and appeal to them individually. The interclass crews should provide a good deal of competition and excitement if they receive the kind of support which they were given the last two years. Practice is held Tuesdays and Thursdays at 4.30 and Saturdays at 2.30 at the B. A. A. boathouse. Men from all classes are urged to come out and give the men their support.

any outside materials and that this method of subduing her would not be very speedy even if successful.

Professor Norris emphasized the value of personality. He said that the award of positions depends very often on the impression a man makes on other men. "A mere technically trained chemist," said the professor, "is no pleasure to himself or to his friends." By developing personality, men can successfully combat ignorance; and they are more likely to display the qualities which characterize the true chemist,—honesty, honor and truth.

The admirable organization of the German chemical industry was outlined by Professor Walker. He showed our great need of a protective tariff, and indicated increasingly bright prospects for American competition against the Germans, mentioning the action taken by several of the great manufacturing interests in establishing outlets for their by-products. The present undergraduates, he said, will enter the field just on the dawn of an era of enormous chemical development.

Before closing, Spear announced that the Society had secured Dean Homer Albers as a speaker for some future date and that a trip will be taken by the Seniors and Juniors of the Society to Lawrence, provided thirty men sign up. The sign-up sheet will be posted in Walker Building next Thursday morning.

A business meeting of the Society will be held Thursday, April 1, at 5 p. m., in 12 Eng B.

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MILITARY CAMP (Continued from Page Three)

of the camps consisted in the giving of recommendations for future command and the filling of the same in the War Department. The cards filed showed in addition the exact military status of all students completing the course and their degree of efficiency.

The success of the previous camps led to an increase of 300% in attendance at the 1914 camps. At Burlington there were 350 students, at Asheville 120, at Ludington 108 and at Monterey 85. This showed beyond a doubt that the value of the camps had been recognized by the college students of the country. The board of college presidents issued a statement to the effect that they heartily approved of the movement and would give it their firm support.

The National Rifle Association took cognizance of the movement by offering individual medals and team trophies. Cornell won the team trophy, with Princeton second and Stevens Tech third.

The standard of work done at the camps was higher, if possible, than that at the previous camps. The discipline was more exacting and the general layout of the work approximated service conditions more closely. At the Asheville camp, for example, where all of the commissioned and non-commissioned company officers were selected from among the students, all of the clerical work incident to the administration of a battalion was carried on. The students at that camp were organized into a battalion of two companies, with headquarters. The regular army officers on duty at the camp attended to the general supervision of the work leaving the details to be worked out by the students.

A part of the instruction at all the camps consisted of a practice march of several days duration. At the Asheville camp this consisted of a march to Hendersonville and return, a distance of 54 miles. The trip out was taken in easy stages, with maneuvers along the way. On arrival at Hendersonville the student companies and the regulars, accompanying them, participated in a parade and then went into camp for the night. The next day the return march was begun. The original intention was to make a short march and then have some maneuvers. Just after the march was started however a torrential rainstorm began. In a few minutes all of the equipment was soaking wet and it was therefore decided to continue the march directly into Asheville, rather than subject the men to the discomforts of a night under wet blankets. The march was completed in eight hours and fifty minutes, elapsed time. Of this, seven hours and five minutes was consumed in the actual marching. The remainder was used in ten minute rests each hour and in a stop for the preparation of dinner. This march established a record for raw recruits and, indeed, one of which regular troops would not be ashamed. There was not a straggler during the march and there were no injurious after effects.

From the recitation of the amount
 (Continued on Page Six)

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RIFLE CLUB ELECTS

Keating Chosen President—Dunn
Captain—No Trip Friday.

At a lengthy meeting of the Rifle Club Monday noon, A. E. Keating, '17, was elected President by a narrow margin to succeed E. J. Casselman, '15. C. T. Dunn, '15, was elected Captain. Casselman has been president and captain for the past year, but the pressure of other work necessitated his resignation as an official of the Rifle Club.

Owing to the small number of men going out last week, there will be no Friday trip of the club this week.

A list of those eligible for the Saturday trip will be posted on the Union bulletin board tomorrow and those desiring to go are requested to check off their names at once. As the party is limited to fifteen men, members are requested not to sign up after that number have checked off. Members after whose check a number is placed will understand that they are to call at the South Armory Saturday before 1.30 to take out the rifle of that number. The train leaves the North Station at two o'clock.

The president requests that all members leave a note at the Cage at once indicating any preference in regard to rifles, information as to what days of the week would suit their convenience, and whether or not Saturday can possibly fit their schedules. The president purposes to assign each man a definite rifle for the remainder of the season.

SPRING CONCERT

Judging from the large sale of tickets to the Spring Concert of the Combined Musical Clubs, the new system of selling is proving popular with the students. The saving of fifty cents is appreciated by the majority of the men. Beginning Friday, April 9th, and every noon thereafter, tickets may be exchanged at the Union for reserved seats. The preliminary dance orders will be out by Friday of this week. The twenty dances have been arranged in a very attractive order, and the management has succeeded in securing Poole's orchestra. The clubs have made a material improvement in technique and will give a successful start to the Junior Week festivities.

CLASS DAY COMMITTEE

The regular weekly meeting of the Class Day Committee will be held at 4.30 in 20 B instead of 11 B.

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MILITARY CAMP
(Continued from Page Five)

of work accomplished by the students it may be supposed that there was no time for relaxation and good times. Such, however, was not the case. The afternoons and evenings were usually free for those who wished to go to dances or teas and occasional dances were given at the camps. At all of the places where camps were held the city authorities co-operated with the officers in securing for the students invitations to social functions and the opportunity to meet the best people of the city.

The camps proposed for the summer of 1915 are as follows, one at Plattsburg Barracks, N. Y., one at Ludington, Mich., one at Chickamauga, Ga., and one at Fort Winfield Scott, Cal. The camp at Plattsburg will have the advantage that it is to be located near one of the finest summer resorts in the country. The one at Chickamauga, Ga., will be on the ground covered by the battle of Chickamauga and will offer opportunity to study the tactical principles involved in that conflict. The city of Chattanooga, Tenn., is only a few miles from the site of this camp. Of the camp at Fort Winfield Scott it is only necessary to say that it will be but a stone's throw from the San Francisco Exposition.

The work to be taken up will be substantially the same as that done at the previous camps. The dates for the camps in the eastern and central parts of the country will be July 5 to August 8 inclusive. The dates for the California camp will be from June 25 to August 1, inclusive. The expenses will be: for uniform five to ten dollars, for meals during the period of the camps seventeen dollars and a half, deposit, returnable at the end of the camp, five dollars. In addition there will be the expenses for travelling to and from the camp, the amount of which will be dependent upon the locality in which the men live and the camp to which they go. No limitation is placed upon the choice of camp, although from the standpoint of expense it is best to attend the camp nearest the home of the man in question.

Additional information may be obtained from the undersigned by leaving a note at the Cage. Copies of the War Department bulletin can also be furnished, as well as blank applications for attendance and information as to railroad rates and travelling arrangements.

FACULTY NOTICE

Alternating Current Machinery—There will be an examination in Alternating Current Machinery of the Fourth Year, Second Term, on Saturday afternoon, April 3rd, 2 to 4 p. m., in Room 26 of the Lowell Building.

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Famous Baseball Pitcher, says:

"Tuxedo gets to me in a natural, pleasant way. It's what I call good, honest companionable tobacco—the kind to stick to."

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just sort of oozes its gentle way into your life and suddenly you realize its powers for good—because it puts peace in your mind and a happy taste in your mouth. Tuxedo's flavor is so enticingly mild and delicately fragrant it will not irritate the most sensitive throat.

All the bite and sting have been removed by the famous "Tuxedo Process." This exclusive process of refining the very best Kentucky Burley tobacco has been widely imitated, but without success.

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