

THE TECH

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BOSTON, MASS., FRIDAY, OCTOBER 17, 1913.

PRICE TWO CENTS

MR. RICHARDS TALKS ON SPIRIT OF ADVENTURE

T. C. A. Speaker Gives His Ideas On Pioneer Work in Science and Religion.

The Rev. Mr. J. A. Richards in his talk, given at the Union yesterday, spoke of "The Spirit of Adventure" both in a scientific and a religious sense. He pointed out how the spirit of adventure, the desire to become a pioneer in new fields, inspired Columbus. The discoverer of America was not the first man to conceive the idea of arriving at the Indies by sailing westward, but he was the first who had the courage to test the value of his ideas. As a result, the dreamers who were afraid to prove their theories have been forgotten, but the practical man who did the work will be remembered always.

Mr. Richards said that the conquest of the field of knowledge required daring as much as the feat of Columbus. The thinkers who have discovered new fields of knowledge have been men with the pioneer instinct, men who have had the courage to break away from the beaten paths of thought. He likened this work to the exploration of the American continents. The explorers worked separately but all with the same main idea, and all inspired by the same spirit of pushing out into the unknown and adding new regions to the old world.

He cited as examples of the spirit of adventure the discovery of the incandescent electric light by Edison and the building of the Panama Canal. In both cases something was being done that had never been done before and, the pioneers were exploring new fields of science.

The speaker said that the same spirit of adventure is found in the field of morals and religion. The men who are not bound by old habits and traditions are the men who succeed and who are remembered afterward. Abraham was an adventurer in moral fields. He found new ideals in religion and morals, he attempted consistently to live up to them, and it was this work which made him a great man of his day.

Mr. Richards said that there are many men who fail merely because they have not the spirit of adventure in morals. They are not strong enough to think for themselves in religious things or else are not strong enough to carry out their own ideas. They follow the crowd and do things they do not really care for, merely because others do them. It is not enough to accept the decisions of others on moral questions, because that is merely following tradition. What a man should do is to think out his own problems and reach his own conclusions; he should find for himself the best possible ideals and should live up to them in spite of all other influences. Finally, Mr. Richards said that only by this course can a man attain the highest life, for "To the adventurous spirit and no other will God show His face."

The Freshman tug-of-war team showed up well in practice yesterday.

C. E. SOCIETY HOLDS MEETING TONIGHT

Prof. Breed to Give Illustrated Lecture On Lynn Grade-Crossing Work.

The first regular meeting of the year of the C. E. Society will be held this evening in the Union at 8 o'clock. All men in the three upper classes in Courses I, XI and IV, Option 2, are eligible to join the Society and are invited to come to the meeting. The speaker of the evening will be Prof. Charles B. Breed of the C. E. Department who will talk on "The Abolition of Grade-Crossings at Lynn." Arrangements are now being made for the future meetings and trips, the plans of some of which will be given out at tonight's meeting.

The work which Prof. Breed has



PROF. C. B. BREED

charge of at Lynn has been in progress for several years and has been recognized as one of the greatest feats of engineering work of its kind that has ever been done. The principal feature of the work is the entire masking of the structural steel in concrete. The cost of the work has so far amounted to over three million dollars. In the course of the construction Prof. Breed has taken numerous photographs illustrating the different phases of the work, and he has had these made into lantern slides which he will show in connection with his talk. All the men who were at Summer Camp know what an interesting talker Prof. Breed is, and President Merrill of the Society hopes that they will all be present to hear Prof. Breed.

Refreshments will be served to all present. It has been decided to give each member a shingle upon payment of the Initiation fee of \$1.00, instead of charging extra for them as has been the case in past years. The dues of the Society are 75 cents a year.

WEATHER

Probable rains; brisk to high northerly winds.

TECH MEN ATTEND UNION CHURCH SOCIAL

Nearly a Thousand Students Present At An Informal "At Home."

Nearly a thousand college students, many of them from Technology, attended an "At Home" in the Union Congregational Church last night. After a reception by Rev. and Mrs. Stockdale, Rev. and Mrs. Scott and Rev. Carl G. Badger, a brief program was given in the auditorium.

The students then descended to the banquet hall, which was decorated with over 150 college banners served and the social became very informal, college songs were sung and the yells of the various colleges represented were given. The percentage of Tech men present was large.

MANDOLIN CLUB

First Concert November 11th—Large Crowd At Rehearsal.

The Mandolin Club held its first rehearsal yesterday afternoon at 4.15 in the Union. There was a very good attendance and the club promises to be larger and more successful this year than ever before. Rehearsals will be held Mondays at 5 and Thursdays at 4.15. At the rehearsal yesterday two selections were played with great success considering the fact that it was the first time that the members had played together.

In accordance with a new ruling of the Executive Committee all men will be fined 50 cents for cutting rehearsals and one dollar for concerts. The Combined Musical Clubs will hold their first concert November 11th.

WRESTLING TEAM

Jack Butler Practising at Gym with Team.

The wrestling team this year will undoubtedly be greatly benefited as "Jack" Butler, the former middle-weight champion of the world, is going to work out with the men on the team for a short time. Butler has not been engaged as a coach for the men, but is working out with them in order to keep in good form and in good practice. The men on the team will probably be able to get a large number of good points in this way and good experience.

TUG-OF-WAR PRACTICE

Freshmen Not Afraid of Mud—Light Anchor Men.

Although the ground was extremely muddy yesterday afternoon, about twenty men turned out for 1917 tug-of-war practice. After pulling against the post for some time, sides were chosen, with a counter for each side. All the men pulled with a will and showed a fine spirit.

The anchor men this year are considerably lighter than the 1916 men who turned out for that position last year. They ran strong but the manager would like to see some heavier men out for the end of the rope.

ELECTRICAL ENGINEERS VISIT POWER STATION

First Section Went to Lincoln Power Station Yesterday—Rest Go Today.

About twenty members of the Electrical Engineering Society went on the first trip to the Lincoln Power Station yesterday afternoon. The men were accompanied by Asst. Prof. W. E. Wickenden, who explained the details of the various appliances. One of the chief operatives of the plant acted as a guide and answered the many questions that were fired at him during the visit.

The generators in this station are of the old-fashioned reciprocating type which is fast being replaced by the more modern turbine engines, which take up about one-tenth of the space occupied by the older type. The five generators here have a capacity of about 12,500 Kw when running full. This current is used for supplying the Boston Elevated Railroad. The turbines, besides taking up less room, have a capacity of about 15,000 apiece. The men were not permitted to see the main switch board, but the chief interest centered on contrasting the reciprocating engines with the modern turbines.

This afternoon at 2 o'clock, to rest of the men who signed up to take the trip will start from Lowell Building, accompanied by Asst. Prof. R. R. Lawrence of the E. E. department.

SOPHOMORE FOOTBALL

Captain To Be Elected This Afternoon at 5.30.

Sophomore Football practice has been progressing rather slowly this week, due to the poor weather. Field Day is only three weeks off and Manager Boxton wants to see every candidate out regularly from now on until the end of the season. This afternoon the election of Captain will be held and every member of the squad should be present to vote. The meeting will be held at the close of the regular practice and any football men having late recitations are requested to report at the Gym, at 5.30 if they are unable to report for practice at 4.00 o'clock.

CALENDAR

Friday, October 17, 1913.

1.00—1916 Governing Board—21 Rogers.

2.00—Electrical Engineering Trip—Leave Lowell Building.

4.15—1916 Tug-of-War—Gym.

4.15—1917 Tug-of-War—Gym.

4.15—1916 Football—Oval.

4.30—1917 Football—Field.

4.30—1916 Relay—Field.

4.30—1917 Relay—Field.

5.00—Glee Club Rehearsal—Union.

8.00—Civil Engineering Society—Union.

Saturday, October 18, 1913.

2.25—Hare and Hounds—Leave North Station.

3.00—Preliminary Meet—Field.

Monday, October 20, 1913.

5.00—Mandolin Club.

THE TECH

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FRIDAY, OCTOBER 17, 1913.

One of the criticisms which Tech men are prone to make of Harvard is that our friends across the river are not "practical." They do not, we think, meet as we do the big, real problems of life, but deal rather with the far-away region of fancies and day-dreams. They have not that working knowledge of things and forces which the technical man uses in his battles with nature.

And yet it cannot be denied that we of Tech, "practical" though we are, are yet largely theoretical in our training. It is not possible in four short years, to make a finished engineer of a raw school-boy, and it must needs be that the Institute, so long as we are with it, give us as much as possible of the theory which lies behind the best kind of practical work.

The chief value of a professional society is that it projects into our theoretical atmosphere a little of the matter-of-fact, working-togs atmosphere which is to come. We meet through it men of ability and experience in what we expect to make our life-work. We come into touch with the best thoughts and the biggest problems of modern science. We get some glimpse of the larger and more responsible world into which we soon shall step.

It is perhaps not too much to say, when we consider the excellence of our Tech organizations, that the professional societies fill the greatest want of the under-graduate, and it is certainly not too much to say that the man who fails to make good use of them, misses from the chain of his education a link which is not the weakest.

JUNIOR BALLOTS

The Junior Class ballots will be due Wednesday, October 22d. No ballots will be received after that date, and in accordance with the class constitution no votes will be counted unless the voter has paid his class dues.

COLLEGE NOTES.

The death of a student at Morrisville College, in Missouri, from the effects of knife wounds inflicted by a fellow-student whom he had just assisted in hazing, and the hospital experience of a Dickinson College Freshman who had had the word "Fresh" burned with acid into the skin of his forehead, represent a lingering and sporadic adherence to a sort of barbarism not uncommon in American colleges less than a generation ago, but happily fallen into disfavor in all the more important of them within the last few years. Not that all forms of hazing have disappeared from college life; perhaps that were not altogether desirable. Such forms, however, as branding and other maiming and life-endangering devices are, for the most part of the past. College sentiment, as well as general public sentiment, is intolerant of them; and whereas formerly it was no very uncommon thing for half a dozen such cases to have been reported by this time in the college year, two are now calculated to attract country-wide attention—and in one of these (the one which resulted fatally) the victim was a hazer and not a hazzee, and published accounts of the affair contain no intimation that the stabbing was done in defense of the stabber's life.

There appears to be considerable difference of opinion among college graduates as to whether every form of hazing is an unmitigated evil, but all seem inclined to agree that the most active and confirmed hazers are apt to be those who, in their freshman year, received—if such a thing be possible—too little hazing; for it has long been a matter of observation and comment among college upper classmen that the sophomores who were let off earlier as freshmen commonly are the most ardent devotees of hazing.

Statistics show that for the past two years the technical schools throughout the country, in general, have reached their maximum in the number of students enrolled and in a few cases are even showing a slight falling off.

At first glance this might seem to indicate that the demand for technical graduates is decreasing. This assumption has proven erroneous, however, by the records of the employment bureaus in the schools affected, which show that the demand greatly exceeds the supply. A significant fact in this connection is that the greatest demand comes from the large companies.

Looking further for the true cause of this condition, we find it to be due largely to two facts—a higher standard of entrance, and the stimulus which the agricultural courses have received lately. The enrollment in the latter is now increasing in leaps and bounds just as that in the engineering courses did a few years back. This may be attributed largely to the agricultural schools being, for the most part, recipients of state aid and having less exacting entrance requirements.

The temporary halt in the number of students in the engineering courses is not to be deplored, however, for the smaller classes can be handled more satisfactorily and given closer personal attention, improving the quality of the product of the engineering schools. Moreover, from a purely economic point of view, the greater ratio of demand to supply the more the technical graduate will command.

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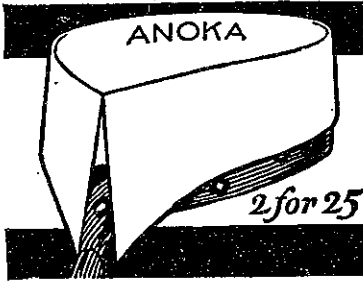
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CAPTAIN GUETHING CALLS FOR WEIGHT MEN

Activities At Tech Field—Exceptional Opportunity for New Men.

Tech Field is unusually industriously used this year by the many candidates for the various teams. Coach Johnny O'Brien, aided by members of last year's victorious team, is fast whipping the promising Freshman candidates into a winning combination. Coach Kanaly is daily increasing his list of candidates for the class relay teams. The regular track men are showing up in preparation for the handicap meets on Oct. 18 and 25th.

Nevertheless, it is strange to note that there are a few events which are comparatively neglected. During the fall, weight men are often busy with tug-of-war and football, which leaves an exceptional opportunity for new men in these events, particularly in the fall handicap meets.

Here is a chance for men who have never competed before to start with every encouragement for success. Fully two-thirds of the requisites for a good weight or field event man is simple perseverance and enthusiasm.

Captain Guething would like to see more candidates report at the Field and enter the Fall Handicap Meets.

SOPHOMORE RELAY

Indifference Shown—But Few Out Regularly.

The Sophomore Relay Team is not showing up in such good form as was the case last year. But few men in comparison to the number that could come out are showing up. There are about fifteen men that are practising and come of ten only with indifference. The average number turning out every day for practice is about ten. There are twelve places on the team that have to be filled besides two substitutes. The small number to choose from cannot result in as good a team being picked as would be the case if there were more out.

There are quite a few of last year's team that are not back at the Institute and so there is a good chance for new men to make good. The management desires that all the men that can come out to the Field and practice do so at the earliest possible time as Field Day is only a short way off. The most promising of the candidates that are out are Loomis, Hine, Dean and Reed of last year's team. These men have been practising quite regularly and are in pretty good form. Others who are out are Comiskey, Page, Goldstein, Hayes, Kittredge, and Lieber.

FRESHMAN FOOTBALL.

Practice Daily At The Field—Squad Working Hard.

The Freshman Football Squad is holding practice regularly at the Field. Considering the unfavorable weather conditions which have been prevalent during the last two weeks, there has been a comparatively large number of candidates on hand at every practice. The squad has shown a great deal of class spirit and enthusiasm, and are working their hardest towards victory on Field Day.

Manager Atkins wishes to see a large squad out for practice this afternoon at the Field at 4.15. Coach O'Brien will be on hand to drill the men.

Slide rule lectures are being held every Thursday at 4 in 11 Eng. B.

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FRESHMAN RELAY

**Trials Monday—Possibility of Meet
With Andover.**

In spite of the unfavorable weather conditions and the poor condition of the track, Freshman Relay practice is being held daily at the Field. The squad is working hard and with enthusiasm. Manager Friend reports that the outlook is very favorable, and that nothing short of a cleanup may be expected on Field Day. The Preliminary Trials will be held Monday, October 20th, and the Finals October 30th. Friend is trying to arrange for a meet with Andover soon after Field Day.

GLEE CLUB REHEARSAL

There is to be a rehearsal of the Glee Club this afternoon at 5 o'clock in the Union. Every man whose name in yesterday's TECH is expected to be present. They should call at the Cage to get the new music which they are to learn, and should know the words of "Take Me Back to Tech."

1916 GOVERNING BOARD

There will be a meeting of the Sophomore governing board today in 21 Rogers at 1.00 o'clock. All the members are urged to be present as important business is to come before the committee.

**SCIENTIFIC AND
ENGINEERING NOTES**

The first gold mining in Alaska was done in the so-called Juneau gold belt, where operations were begun over 30 years ago. The value of the gold produced in this region is more than \$50,000,000. Most of this gold has been taken from the famous Treadwell and other mines near Juneau. The auriferous belt is, however, known to stretch for some 50 miles to the north and includes the Eagle River region, described in a report by Adolph Knopf, just issued by the United States Geological Survey as Bulletin 502. This report, unlike many others on mining districts in Alaska, which are of a reconnaissance character, treats of the region in detail. It is entitled "Geology and Mineral Resources of the Eagle River Region, Alaska," and is accompanied by a topographic map on a scale of a mile to the inch., with 100-foot contours, by J. W. Bagley, and a detailed geologic map on the same scale.

Gold-bearing lodes constitute the only mineral resource of the Eagle River region now under development. The ore bodies occur in certain geologic associations which are described in the report and elucidated by the map.



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