

THE TECH

VOL. XXXIII. NO. 116.

BOSTON, MASS., THURSDAY, JANUARY 8, 1914.

PRICE TWO CENTS

TETRAZZINI FINISHES BOSTON ENGAGEMENT

**Concert Sunday Night—"Louise" On
Wednesday For First Time
This Season.**

Next week will begin auspiciously at the Boston Opera House with an appearance of Mme. Luisa Tetrazzini in concert, on Sunday evening, Jan. 11. This famous singer has finished her operatic engagement in Boston, and this will be her last appearance there this year, as she leaves immediately for an extended concert tour. She will sing arias from Thomas's "Hamlet," and from Bizet's "Pearl Fishers," besides a group of selected songs. With her will appear MM. Blanchart and Wronski, of the Boston Opera Company, and Miss Edna Gunnar Peterson, a young Chicago pianist, as well as the entire Opera House Orchestra.

On Monday, Jan. 12, Offenbach's "Tales of Hoffmann" will be repeated with one change from the previous cast—Vanni Marcoux in the four-fold role of Lindorf, Coppélius, Dapertutte, and Miracle. The others will remain in their former roles: Miss Scotney as the Doll, Miss Amsden as Guletta, Mme. Edvina as Antonia, and Mr. Laffitte as Hoffmann. Mr. Strony will conduct.

Charpentier's "Louise," one of the most justly popular operas in the repertoire, will be given its season's premiere on Wednesday evening. The title role will be sung by Louise Edvina; the young poet, Julien, by Charles Dalmores, of the Chicago Company; the mother by Margarita D'Alvarez, and the father by Vanni Marcoux. For the rest of the long cast, practically the entire French section of the company will be called upon. Mr. Andre-Caplet will conduct.

On Friday evening, Puccini's "La Boheme" will be given its third hearing of the season. Lucrezia Bori, whose Madama Butterfly was so noteworthy a feature of the early part of the season, will be heard as Mimì; and Mr. Laffitte will resume the part of Rodolfo in which he was received with such great favor at the first performance of the opera this year. Mr. Danges will sing Marcello; Mr. Pulcini, Schaunard; and Mr. Mardones, Colline; while Mme. Beriza will again be seen in her admirable characterization of the grisette Musetta. Mr. Moranzoni will direct.

On Saturday afternoon, Saint-Saens' "Samson et Dalila" will be given for the fourth time, thus completing its round of the subscription performances. The remarkable popularity of this work during the present season is beyond doubt to be largely

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ARCHITECTS' SMOKER

Next Tuesday the Architectural Society will hold a smoker at which Mr. L. C. Newhall will speak. His subject is "A Short Shop Talk." He is the President of the Boston Architectural Club, and is well fitted to speak before the Society on topics of interest. The smoker will be at 7.30 and will probably be held in 11 Engineering B.

BUSINESS MEETING OF COSMOPOLITAN CLUB

**Important Matters Considered—Mr.
Talbot Of T. C. A.
Gives Talk**

At a meeting of the Cosmopolitan Club yesterday much important business was transacted. The report upon British Night was first given by Mr. Mason, the British National Chairman. It was also decided to give a public entertainment next term to raise funds for furnishing the new Cosmopolitan clubroom at the Walker Memorial Hall of the New Technology. A committee appointed to report upon this entertainment was as follows: L. W. Snow, chairman; T. C. Hsi.

An election held resulted in choosing Mr. Turpin Hsi as assistant editor and Mr. L. W. Snow as business representative for the Publication Association of the Cosmopolitan Club. Arrangements for next term's entertainments were discussed, and the following were decided upon: A public entertainment, a Latin-American night and a European night. The date for the election of new officers was set for the second week in May. It was decided that a club picture should be taken, but the exact time will be announced later. Members who have not yet paid their dues are requested to do so as soon as possible so that the Technique insertion can be arranged for.

Mr. Talbot of the T. C. A. then talked about the success of the Northfield Conference. He said that many students from other colleges were there, but that only a few attended from Tech. Everyone was urged to attend these meetings if possible.

ARCHITECTS TO WORK

**Saturday Will See Twelve Hours
Continuous Study**

The fourth and fifth year architects expect to spend a little of life's pleasure on Saturday of the present week when the preliminary competition for the famous Paris Prize takes place, from nine in the morning until nine in the evening.

There will be twelve hours of tearing tracing paper, daubing much paint and the breaking of many pencil points. This matters little, however, for the spirit of the day is always to present in the best possible way the solution which each man has worked out for himself in the few hours assigned. No one knows until Saturday morning what the problem will be, but the principal "hunchgetters" of the department are spreading the word. "Study your orders of architecture."

The competition is open to any draughtsman under twenty-seven years old in the United States, and the winner receives two years and a half in the Ecole des Beaux Arts at Paris with \$1,000 a year for his living expenses. It is one of the most coveted prizes in the United States, for the competition is so open and so general in every way that the winner must rise head and shoulders over a large army of fellow competitors.

BISHOP LAWRENCE TO BE T. C. A. SPEAKER

**He Will Talk on "Reserve Power"
At Last Meeting
The Term**

At 1.30 today in the Union the Right Reverend William Lawrence, the Episcopal Bishop of the Massachusetts diocese, will talk on "Reserve Power." The subject is one which should interest everyone, and this fact, together with the prominence of the speaker, should turn out one of the largest crowds of the year. The Rev. Mr. Lawrence is a prominent worker in civic and social fields and has published several books on these subjects. The meeting this afternoon will be the last until after mid-year's.

WIRELESS CLUB MEETING

**Important Business Transacted—
Election Of New Officers.**

The Wireless Club met yesterday to elect new members, to act on the tendered resignation of President Borden and to elect officers for the coming year.

The President told the new members of the object of the Club, and he said that in future the meetings would be held once a month, at each one of which there will be a talk by one of the members or by an outsider.

Acting-President Borden's resignation was accepted and the following new officers elected:

President, A. R. Morton; Vice-President, D. R. Husted; Secretary, R. E. Curtis; Treasurer, H. W. Lamson.

Methods were then discussed as to the best means of improving the club and apparatus.

The President announced that arrangements are being made for a meeting of the combined Harvard, Tufts and Technology Wireless Clubs at which Professor Comstock has offered to speak.

JUNIOR CLASS PICTURE

At one o'clock next Tuesday the entire Junior class will assemble on the steps of Rogers Building to have its picture taken.

The picture of the Junior class officers which was to have been taken last Friday has been postponed indefinitely.

MUSICAL CLUBS

There will be a regular meeting of the Combined Musical Clubs Association next Tuesday at 5 P. M. in order to elect a vice-president and a secretary. The regular rehearsals of the Glee and Banjo Clubs which come at this hour will be postponed while the meeting lasts. The meeting will not be a long one, however, and members should come prepared for the rehearsal.

WEATHER

For Boston and vicinity: Fair and warmer; prevailing westerly winds.

JOHN RITCHIE, JR., IS MANY-MINDED EXPERT

**Has Won Distinction in Astronomy,
Chronology And Other Important
Fields Of Learning**

There are few men in the world who have done as much work, and have done it in as quiet and unobtrusive a way as John Ritchie, Jr., who is connected with the Institute. His vocation is the translation of scientific discoveries and investigations into popular language. His avocations are Astronomy, Chronology, Geology and Music. In all of these, however, the object he has had continually in view is to make these subjects of popular interest. His work has made him perfectly happy, so happy, in fact, that, in his own words, he has had time neither to "make money" or to "be a success."

Mr. Ritchie began, when a school-boy, to collect shells. He has made a long and extensive study of them and is today one of the world's authorities on the subject. When he was a young man he made a trip to Europe, traveling from one end of the Continent to the other. In Switzerland he was one of the first twenty to climb the Jungfrau. He explored the Italian foothills with one or two companions at a time when these regions were infested with bandits. During all this time he was studying and making notes.

But Mr. Ritchie's energy could not be confined and, upon making the acquaintance of two Technology students, who later became prominent at the Institute, with them studied geology extensively. Shortly after this time he became tremendously active and seems to have done important work in a dozen different lines at once.

The work of which Mr. Ritchie is most proud is the invention of the present method of distributing astronomical news. In 1881, when an astronomer would discover a comet, he would make extensive studies of it and then publish an article in some German pamphlet telling the other astronomers what they had missed. Mr. Ritchie thought that this was an unnecessary wasting of a perfectly good comet, so he and Dr. Chandler got together and invented a method by which astronomers all over the world could be told where to look

(Continued on page 4)

CALENDAR

Thursday, January 8, 1914.

1.00—Soph. Football Picture—3 Park Street, Notman's.
1.30—T. C. A. Talk—Union—"Reserve Power." Bishop Lawrence.
4.00—Preliminary Trials 440 Yards Dash, for Interclass Meet—Gym.

Friday, January 9, 1914.

4.00—Rifle and Pistol Club Practice—First Corps Cadets Armory, Columbus Avenue.
4.30—Major Cole Speaks Before C. E. Society—Union.
7.30—Indoor Interclass Meet.

Saturday, January 10, 1914.

7.00—Alumni Dinner—Hotel Somerset.

THE TECH

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THURSDAY, JANUARY 8, 1914.

In Charge of This Issue:

Editor—W. A. Houser '15.

Assistants—E. F. Hewins '16, G. H. Stebbins '17.

The communication in this issue opposing the printing of the fraternity pictures in Technique is an extremely thorough presentation of that side of the case. For purposes of comparison we hope shortly to present the views of the Technique Board on the question.

Our statement as to the number of fraternities that favor the project was not accurate; a majority have agreed to come in if the rest will, but sentiment regarding its advisability is about evenly divided. The views of representative Institute men which we have been able to obtain are conflicting, but mostly favorable.

It is a good objection that many prominent men would be omitted from these pictures, but this is unavoidable as it is impossible to classify exactly in this respect. Certain it is that prominence is not a mere matter of offices held. Pictures of the officers of the professional societies, while an excellent suggestion, need not exclude the matter under discussion, and has, so far as we see, no bearing upon it.

We mentioned yesterday that any friction that might arise between fraternity and non-fraternity men would be particularly disastrous to the Institute, but we see no reason to fear this. The listing of names on the inserts has never been regarded as a "difference"; we do not see why the pictures should be any more so. Any connection between anti-fraternity feeling and the pictures in other col-



All the men who are entered in the 440 yard run of tomorrow's meet should be on hand at 5.15 this afternoon to run in the elimination races.

Twenty-seven men took the 780 yard trials yesterday. The times made were poor, being considerably slower than those made last year. The time made by the fourth man of last year's team was equaled by only one man yesterday. There are, however, several men who did not make the trials, among them C. T. Gue-thing, J. J. Donnelly and Charlie Fox. Moreover, last year's trials were run two weeks later in the season. Given two weeks' more practice faster times may be expected which should equal if not better the records of last year. The finals for the relay teams will be held on January 22.

Wilson, O'Hara and Wilkins ran six laps in thirteen per, yesterday. When the pistol rang out Wilson thought he had two-twenty before him and, had to work hard to hold himself in.

Rumors that Penn will meet Georgetown in the two-mile relay race at the B. A. A. games were published in the daily papers yesterday. Tech can certainly give Penn a better rub than Georgetown.

N. S. Taber, Brown, class of '13, and now at Oxford, won second place in a 7-1-2 mile cross-country race between Oxford and Cambridge. Despite the fact that Oxford got first also, G. M. Sproules winning in 41:55, Cambridge won the team honors.

BOSTON OPERA

(Continued from page 1)

attributed to the extraordinary worth of the two artists who take the leading roles—Mme. D'Alvarez as Dalila, and Mr. Ferrari-Fontana as Samson. They have both scored heavily at the previous performances of the opera, and are the ideal exponents of the roles. MM. Danges, Ludikar, and Mardones will be heard as before in the parts, respectively, of the High Priest, the Old Hebrew, and Abimelech. Mr. Andre-Caplet will conduct.

The offering at the usual scale of popular prices on Saturday night will be Verdi's "Rigoletto," with Evelyn Scotney in the role of Gilda. Vincenzo Tanlongo will be the Duke, Ramon Blanchart the Rigoletto, and Mr. Mardones the Sparafucile. The performance will be directed by Mr. Schiavoni

lege annuals seems rather far-fetched. We think this condition, in the few places where it exists, is caused by a wrong attitude adopted by the fraternities in activities, class politics, etc., which at the Institute is practically unknown.

So far from seeming undemocratic, this change appears to us a move toward coming out into the open, away from the secrecy so prevalent in the past. On the Technique Board, and so far as we have been able to inquire outside, the prominent non-fraternity men are the strongest advocates of the project.

We have here, for the sake of argument with our communicant, adopted a partisan attitude, for we can add nothing to his presentation of the negative side of the case.

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COMMUNICATION

To Editor-in-Chief of THE TECH:
Dear Sir—In today's issue of THE TECH I note your editorial on the insertion of fraternity pictures in Technique, and wish to take exception to some of the statements, as well as to present the arguments against the insertion of these pictures.

You state that most of the fraternity men have taken favorable action on the matter. It may interest you to know that I have in my possession letters from seven of the fraternities definitely opposing the insertion of these pictures. In addition there is my own chapter and three others known to be opposed, while several others seem to have gone in because they believed it to be the way the crowd was going. It seems that a clear majority of the fraternities are against the scheme.

The idea that the pictures of the prominent men would be obtained may or may not be true, at any rate some very excellent men would be missed; but when you consider that pictures of all the athletic teams, the Institute Committee, the class officers, the A. A., and numerous other groups now appear in the book, you will realize that most of the prominent men have been taken care of, regardless of whether or not they belong to a fraternity. If more pictures, or some new feature is needed, why not have the pictures of the officers of the professional societies. These men are truly representative of the Institute's best men and have earned the right to have their pictures in Technique.

You state that most of the fraternity men buy Technique. Even admitting that the book would have a greater value to the fraternity men, the effect on the whole school would still be the main question, and any small amount of friction caused by this move would more than overbalance the gain to these men. The whole thing comes down to the fact that it is erecting—knowingly—another and completely unnecessary difference between fraternity and non-fraternity men.

You also state that most of the other college annuals do publish these pictures. Let me remind you that the fraternities at most of the other colleges find it necessary to fight anti-fraternity feeling, and in some western states it has even come down to a fight for existence in the state legislatures. The objection always comes on the same ground. The whole basis of argument is that the fraternities are not democratic. Will this proposed step at Tech be towards or away from democracy. In answer to this question lies the trouble with Technique's plan.

Very truly,
Chas. W. Loomis.
Jan. 7, 1914.

STORKE ENGAGED

At a luncheon given by Miss Edith A. Munch, of Arlington, yesterday, her engagement to Harold G. Storke '14, perhaps better known at the Institute as "Pete Storke," was announced. Miss Munch is the daughter of Mr. and Mrs. F. C. Munch, also of Arlington.

Jimmy Power of the B. A. A., broke the half-mile record of New Zealand, finishing in 1:58.

Taken from Union on January 7—a brown overcoat. Please return to THE TECH Office—no questions asked.

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SATURDAY, 2 to 4.45. **LUCIA.** Tetrizzini, Heyman, Tanlongo, Fornari. Cond., Moranzoni.

SATURDAY EVENING, 8 to 11. **FAUST.** Beriza, Swartz-Morse, Lafitte, Wronski, Grand, Everett, Levetoni. Cond., Dubois.

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NEW TECHNOLOGY FACTS GIVEN TO BUILDERS

Interesting Details Regarding The Construction Of New Buildings.

These are some of the facts from the description of the New Technology, "the White City by the Charles," given by Mr. John Ritchie, Jr., at the Kaffee Klatch of the Master Builders' Association of Boston, January 2, 1914.

The area of the entire lot is fifty acres and the educational buildings will occupy twelve acres, the extent for one floor being about three acres. Cubic contents of buildings, about fifteen million cubic feet. Excavations have amounted to date to 30,000 yards, which has been used for filling, and 40,000 yards have been brought to the lot from the subway excavations.

There will be eight independent construction gangs, each with its administration, engineers, workmen, trestles and pits, run and concrete towers. Each has its own headquarters, stock house, telephone and equipment. There are to be frequent regular meetings of the heads of divisions.

There are five railway tracks and a short spur, in all 7,000 feet in length, with 720 feet of trestle, B. & A. standard, together with the Stone & Webster locomotive from the Keokuk dam.

The fire protection system includes 2,000 feet of main with 15 hydrants equipped each with 100 feet of hose and nozzle. There are 25 other outlets for the building purposes. There are several miles of wire for current and telephone.

There are in stock at the present moment about 3,000 piles on the ground—with 1,000 already driven—2,000 barrels of cement, 1,040 tons of reinforcing steel, and 1,300,000 feet of lumber with 500,000 feet more on the way. A large sawmill has been erected with half a dozen saws and other machines.

The foundations are excellent, the ground being above an old spit of gravel, with none of the peat there that is to be found in the neighborhood. Tests have been made with spruce and oak piles and with two types of concrete piles. The spruce piles in tests of single piles have stood thirty tons.

A mile of wire fence encloses the lot that is reserved for immediate building operations.

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GIFT TO TECH UNION

Mr. Edgar M. Berliner Donates New Records For Victrola

Mention was made in THE TECH some time ago of a gift to the Union of fifteen new records for the Victrola. The name of the donor, Mr. Edgar M. Berliner '06, and the list of records is now made public. The complete list is as follows:

Celeste Aida, Caruso; Humoresque, Elman; Rigoletto Quartette, Caruso, Abbot, Homer and Scott; Aida Selections, Band; Attila Grand Trio, Band; Dream Pictures, Band; Pomp and Circumstance March, Band; Meditation from "Thais," Kreisler; Caprice Viennois, Kreisler; "A Wee Deoch and Doris," Lauder; Barber of Seville, Ruffo; Valse Brillante (Chopin), Paderewski; Romeo and Juliet Valse, Eames; Minuet in G, Elman; Calf of Gold (Faust), Plancon; Fourth Regimental March, Band; Sardonian March, Band; Devil's March, Band; Soldier's Chorus (Faust), Band.

JOHN RITCHIE, JR.

(Continued from page 1)

for the celestial visitor. Their invention worked so admirably that the Smithsonian Institute of Washington gave them the work of the official astronomical news distribution. He has been made an assistant in the Harvard observatory.

During all his astronomical work, Mr. Ritchie had not forgotten the joys of mountain climbing, and about this time became a member of the Appalachian Mountain Club. Since that time this club has been essentially an active organization. Today the club has a membership of two thousand.

But computing the motions of comets, studying shells, doing geological work, and climbing mountains allowed Mr. Ritchie so much spare time that he decided to turn serious attention to music. He equipped the drawing room of the old Ritchie home on Warren street with three grand pianos, and later with a three-manual organ which he designed and put together himself. Music students were invited here in groups and a comprehensive library placed at their disposal.

Mr. Ritchie has also done many other things. For two years he was one of the health commissioners of Boston and compelled the milk dealers to deliver milk in glass bottles. He has studied languages and uses three or four in his daily work. And with all this, when he is charged with having lived most energetically he chuckles contentedly and says he has "just lived for the fun of it."

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THE TECH

VOL. XXXIII. NO. 17.

BOSTON, MASS., FRIDAY, JANUARY 9, 1914.

PRICE TWO CENTS

BISHOP WM. LAWRENCE ON RESERVE POWER

**"Take Your Holiday With Your Job"
Part Of Bishop's Advice
In T. C. A. Talk.**

Neglect of the factor of safety or failure to calculate for peak load is a mistake in character as well as engine building, according to Bishop Lawrence. The Bishop spoke for twenty minutes yesterday noon at the regular T. C. A. gathering and in some apt analogies made the subject of "Reserve Power" a very live one.

Scientific training, said the Bishop, tends to lead one to the assumption that it is sufficient when a design has met the requirements of an estimated load, or, in its human application, when one's strength is just made equal to a prescribed task. How the presence of reserve power strengthens confidence and how our faith is shaken in anything lacking it, was made real by a comparison to the ocean liner. The big ship inspires our confidence as it steams over the calm sea because we know that it was a reserve for the storm which would dash to pieces the vessel without that extra power.

Physical reserve power, continued the Bishop, is of prime importance. We must have the consciousness that we are a bit stronger than our work. Such a feeling can only come from a fund of reserve power built up by constant care for recreation and exercise. The speaker cited the case of Joe Chamberlain as an example of one who failed to recognize this truth. The famous British politician, who has just resigned from parliament, boasted twelve years ago that he had never taken exercise or recreation of any kind. The man then in the height of his influence is today completely broken in health and unable to speak.

The foolishness of such a boast and the greater wisdom of taking thought for this physical reserve power was exemplified in the person of Dr. Weir Mitchell, to whom Bishop Lawrence

(Continued on page 4)

SOPH PIPES

Although the sale of class pipes was extended over last Tuesday but twenty-five orders were received, all of which were for the "Official." Such a small number of orders from a class of over three hundred shows very poor spirit, according to Chairman Uhlinger's opinion. As the pipes will be ready the week after mid-year's those who still wish pipes should not delay seeing Uhlinger or ordering direct of Schreiber.

SHOW PUBLICITY CUTS

The first cut in the competition for assistant publicity manager will be made next Monday afternoon. The second and final cut will be made next Friday afternoon, when the man will be chosen. The candidates met with Manager Lucas yesterday afternoon and talked over titles for the Show Book.

The competition for the show poster will open soon, probably before vacation.

ADVISORY COUNCIL AWARDS INSIGNIA

**New Insignia For Men Winning a
"T" More Than Once—Awards
Of "cTe" Given.**

At the last meeting of the Advisory Council on Athletics the following men were awarded cTe's for their work in the Annual Fall Handicap cross-country run at Wakefield this year in making the four fastest times: P. M. Currier '14, A. E. Peaslee '14, L. E. Best '15 and M. C. Brogk '17.

At the meeting considerable discussion took place concerning the awarding of additional insignia to men who win their "T" more than once. It was finally voted that some form be adopted, but just what it will be as yet has not been definitely decided upon. In all probability it will be a star over the center of the T if the man wins it twice; if three times another star will be placed on the right side, and if four times still another on the left side. This insignia will not be awarded to the men unless they are in their third or fourth years. No freshmen or Sophomores will be able to get this insignia although they may win their T more than once. No men who have won their T more than once will be allowed the extra insignia unless they repeat again after the date this decision went into effect, Jan. 1, 1914.

FINANCE COMMITTEE

**Met In Union And Discussed Matters
Of Interest.**

The Finance Committee held a meeting in the Union last evening and reports from all activities, except the Cadet Officers Association, were received. A committee was appointed to devise a method of shortening the routine of business. It was decided to get printed instructions for the filling out of report blanks. The question of trial balance sheets was discussed and attention was also called to the keeping of the ledger.

SOPH GOVERNING BOARD

There will be a meeting of the Sophomore Governing Board today at one o'clock in 21 Rogers. The report of the Dinner Committee will be given. The election of the baseball manager for this year will also be held at this time. There is a possibility of the election committee of the Technique Electoral Board being brought up for discussion.

STUDENT TABULAR VIEWS

**Students To Make Out Three Tabular
View Cards.**

A change has been made in the registration system and will take effect after the mid-year's vacation. Each student will file three tabular view cards instead of the usual two, stating his section and his hours of work. The third card is to be placed in the Union, and will take the place of the address cards now in use.

LARGE ATTENDANCE AT BROWN MEET EXPECTED

**Many Tickets Have Been Sold—
Price May Be Lowered For
Harvard Meet.**

The wrestling meet that is to be held Saturday night with Brown bids fair to have a large attendance as a surprisingly large number of tickets have been sold. Special arrangements have been made to accommodate a big crowd, so that there is still room for more spectators. A new mat cover has been provided for the wrestling team and will be used for the first time on Saturday. The picture of the team was taken yesterday and will be run in tomorrow's issue with the lineup which meets Brown.

The management will endeavor to run the meet with Harvard at as reasonable a price as they can. If the crowd turns out well and supports the team this week the price of the tickets to the Harvard meet will probably be twenty-five cents. The management feels that they would rather have a crowd of four hundred at twenty-five cents than a smaller crowd at fifty cents which was the price originally planned. They do not desire to make money on the meets, but merely to break even if they can get a good crowd out to support them.

In the Harvard meet at least ten bouts will be arranged, and if possible twelve. To those participating in the meet, medals will be given somewhat similar to those given last year.

MAJOR COLE TO SPEAK

**Will Address C. E. Society This
Afternoon In 11 B.**

This afternoon at 4.30 in 11 B, and not in the Union, as was first announced, Major Cole will address the Civil Engineering Society on the subject of "Rapid Fire Surveying," a system invented by the Major himself, and by the aid of which large areas can be mapped in a comparatively short time. The scheme is now universally employed in the army, where quick and accurate work is imperative. Major Cole has a large and interesting collection of military maps made in this manner, and will exhibit them to the Society.

Besides being the originator of this useful system, the Major has been a collaborator in a number of books on Military Science, and has seen many years of active service in the Engineering Corps of the United States Army. He served in the war against Spain, and in the Philippines. West Point is his Alma Mater, though he also attended the Officers School at Fort Leavenworth, Kansas.

RIFLE CLUB

There will be no rifle practice this afternoon, owing to the fact that the armory range has been reserved. The next shoot is to be held next Tuesday, when the Rifle Team will have as its opponent the North Georgia Agricultural College. This is the second of Tech's matches in the intercollegiate shoot. Wednesday the club hold the usual practice.

ANNUAL INTERCLASS TRACK MEET TONIGHT

**Seniors Expected To Take First
Place, With Juniors a
Close Second.**

This evening the annual interclass track meet will be held in the Gym at 7.30. The first event will start promptly at that time and the entire list of events will be run off as rapidly as possible, so that the men can get away by nine o'clock.

The elimination trials for the 440-yard dash were held yesterday afternoon and the following men qualified: T. Guething, Fox, Huff, Nye, Dean and King. The trials were run off in three heats and were closely contested, especially the one in which Nye and Dean ran, Dean finishing scarcely a foot ahead of Nye, with the other men close behind. Tom Guething is looked upon as the winner of the race, with Fox and Dean about even for second. The race should prove the feature event of the evening, owing to the fastest runners having been picked in the trials. If any of the indoor records are broken the quarter will probably be one of them.

Curtis and Huff will be matched against each other again in the high hurdles and one of these two will without doubt take first place. These two men are quite evenly matched, so the outcome is doubtful.

Wilson, Wilkins, Loomis and O'Hara are among the fastest men in the 37-yard dash and should all place. Several heats will probably be run with semi-finals and finals.

There are only a few entered in the mile run. Cook, Lee, Nye and Brock are the only ones that have signed up as yet. Last year the mile was the feature event. Benson winning with Lee a close second. Benson is not running at present and the contest seems to lie between Lee, Cook and Nye.

In the half mile there seems to be a lack of fast men. C. T. Guething and Donnelly, who were looked upon as the two fastest men in this event, are not running tonight and the field seems to be open to anyone. Peaslee, who did not qualify in the quarter, will probably enter this event, and should prove the fastest if Nye does

(Continued on page 3)

WEATHER

For Boston and vicinity: Unsettled, generally fair; light variable winds.

CALENDAR

Friday, January 9, 1914.
1.00—Soph Governing Board—21 Rogers.
4.30—Major Cole Speaks Before C. E. Society—11 Eng. B.
7.30—Indoor Interclass Meet.
Saturday, January 10, 1914.
1.00—1917 Executive Committee Meeting—Union.
7.00—Alumni Dinner—Hotel Somerset.
8.00—Wrestling—Tech vs. Brown—Gym.

THE TECH

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FRIDAY JANUARY 9 1914.

In Charge of This Issue:

Editor—J. B. Carr '16

The Civil Engineering Society is doing the school a favor by extending a general invitation to Major Cole's talk this afternoon. Major Cole is one of the many men about the Institute who are not content merely to do their work and draw their pay but who try to reach out and help as best they can the men with whom they come in contact. His classes in knot-tying, his prize to the best worker on THE TECH, his lectures to the professional societies, as well as his enthusiasm for the regiment, indicate the manner in which his desire to be of service is finding expression. Men in Major Cole's position too often fail to realize the extent to which they can help the growing intellects which come under their tutelage. The Institute is to be congratulated upon possessing one of the exceptions.

We hope that the student body will take sufficient interest in the placing of a student file in the Union to make it, if the scheme is adopted, complete and accurate. This innovation will be of obvious advantage, for the file in Rogers is often inconvenient to consult, and is out of reach after hours, on Sundays and holidays, during vacations, etc. With an almost negligible amount of trouble on the part of each man, the student body and student organizations could have at their disposal a complete file of telephone numbers, addresses, schedules, connections with activities, etc., which would prove of immense value. The list of activities and officers now

ENGINEERING AND SCIENTIFIC NOTES

As long ago as 1892 the hypothesis was proposed to explain the concurrence of sun spots and terrestrial magnetic disturbances that such phenomena might be due to electrical currents in the sun's atmosphere. Recent experiments have produced much evidence to confirm this hypothesis.

When two carefully insulated electrodes were placed in a high temperature furnace it was found that, with an applied potential of a few volts up to 1400 degrees Centigrade the resistance between the electrodes was practically infinite, but above that temperature it fell off rapidly. Thus we see that, even at atmospheric pressures, at high temperatures an atmosphere has a conductance which increases with the temperature.

Further experiments proved that "most substances capable of withstanding high temperatures emit electricity when heated strongly," and that the rate of emission increases rapidly with the temperature. These currents are not thermo-electric in nature but are ionization currents produced by a steady discharge from the hot body. Experimental data show that these particles travel too slow and have too great a range to be the electrical "corpuscles" encountered in electric discharges in vacua.

The magnitude of these currents can be seen from the data that a carbon rod fifteen centimeters long heated to a high temperature by a low voltage alternating current emitted a negative current of 3.5 amperes to an insulated and comparatively cool carbon cylinder surrounding it. The high fusing metals emit similar currents and a marked increase in the current strength is noticed as the melting point is reached.

Now authentic figures show the temperature of the sun to be between 5600 and 6000 degrees. The atmosphere of the sun must accordingly be highly conductive and must also be filled with a great number of these charged particles. Therefore, when a whirlwind storm is set up around a cool sun spot a circular current of these particles is produced. Recalling Rowlands experiments which show that a rapidly revolving charged body produces a magnetic field, it is easy to perceive how such a whirling in the sun's atmosphere might produce a powerful magnetic field. Calculations based upon data obtained in these experiments show that currents of sufficient intensity might easily be set up which would account for the magnitude of magnetic disturbances experienced on the earth.

This hypothesis has by no means been proved and there are many points concerning which our knowledge is very meagre, nevertheless these experiments have done considerable to show the plausibility of the theory.

Harvard is soon to have a class in athletics, under the general supervision of Paul Withington, the former football and crew man. Free instruction in swimming, fencing, boxing and wrestling will be given to all students who enter the class.

Military Science lectures end this week for the term.

posted in the Union has already proved to be a step in the right direction, and should demonstrate the desirability of making the far more comprehensive file under consideration.

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**LOWELL INSTITUTE
LECTURE LAST NIGHT**

Mr. Wallas Speaks In Second Of Series On "The Man Behind The Vote."

At the lecture given last night in the Lowell Institute Course in Huntington Hall, Mr. Wallas, reader of political economy in the University of London, gave his second lecture in the series of "The Man Behind the Vote."

Mr. Wallas dealt with the instinct of the man and the intellect of the man. He contrasted the old idea of this with the present one that is held by those who have seriously considered the matter. The old idea seemed to be that man was merely an intellectual being, while the animal had nothing but the animal instinct. The present idea, he seems to think, is that man has a large amount of animal instinct and not as much of the intellectual as before thought. Man is animal and his thought is but a passing shadow in many cases, and does not influence him to any appreciable extent.

The idea is similar to the Syndicalist idea that prevails in so many parts of Europe and which is somewhat analogous to the socialist idea of this country. Both ideas he claimed to be extremes. Man in many cases shows his animal instinct by curiosity. The speaker said that he was somewhat similar in that line to a dog. When curious, the dog turns and looks to satisfy his curiosity. The man does similarly from instinct.

When man to satisfy his desire for knowledge looks through a telescope at the stars, he is not showing his animal instinct, but is showing his intellectual capacity.

The series of lectures deals with the more psychological side of the question "The Man Behind the Vote," and should prove interesting to those that desire a little idea of that phase of the question.

TRACK MEET TONIGHT

(Continued from page 1)
not run this in addition to the quarter.

The shot put seems to be between Seymour and Winton, with Seymour the favorite. Teeson, according to his performances in practice, should place first in the high jump, with Hall second. The other places in this event seem to be open to almost anyone. Lawrason is the only one in the pole vault that has shown ability to take a first. It is not known at present whether he will enter. Knapp is entered in this event and should take a place.

Dr. Burton, pastor of the Old South Church, has been giving an interesting series of Friday night talks, under the general head of "Personality."

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BISHOP LAWRENCE SPEAKS

(Continued from page 1)

also made personal application. This noted physician and writer made walking a part of his daily program and annually took six weeks for nothing but fishing. This, in great part gave him that supply of physical energy which helped to make him one of the most noted physicians and specialists on nervous cases.

A great help, said the speaker, is the faculty of throwing aside the thought of one's job as soon as that job is over. Even the faces of the average street-car crowd show two types of people—those who relax and leave their cares in the office, and those who carry their worries with them constantly. "Take your holiday in the midst of your job," was the Bishop's epigrammatical way of putting it. It will enable one to do things with the feeling that he is not being taxed to the limit.

Intellectual reserve power is not less important, declared the Bishop. Is it right to assume that if we learn enough to handle our particular profession we are through? On the contrary, the speaker said that such an assumption made a very narrow man. In fact, Bishop Lawrence saw in the modern tendency for condensation a serious indication that men are excluding from their thought everything, except in very scanty form, which is outside of their special business. Men must have intellectual exercise. Referring again to Dr. Mitchell, the speaker said he once made a study of the death scenes of Shakespeare's plays to discover the writer's idea of death. Such avocations as this, or better, a biography, makes a man of interesting personality and who can talk something besides "shop."

Completing the familiar trinity, Bishop Lawrence spoke of spiritual reserve power. Some people wear their hearts on their sleeves; others—those with reserve power—have a religion more deep-seated. But such a reserve, he said, must be earned. It must be worked out in meeting life's real difficulties; in fact, it isn't worth while unless it has stood the test of life's problems. That is why religion cannot be left to a specialist—it must deal with all of life.

Spiritual reserve power, concluded the Bishop, means stability in the cross-currents of life. Some people are continually fearing that they will catch the latest infectious disease, and others like them are worrying for fear they will fall into temptation. Reserve spirituality gives conscious immunity from the disease of evil which threatens a man's religious health.

The meeting yesterday was the last one of the term. The meetings for next term, for which interesting speakers have been secured, will be announced later.

Tufts defeated Amherst at hockey last night, 11 to 1, in a rather slow game.

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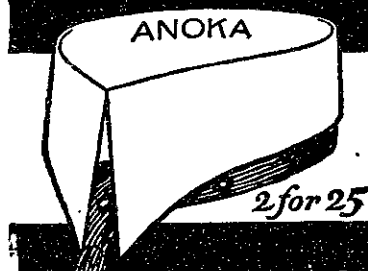
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