

THE TECH

VOL. XXX. NO. 134

BOSTON, MASS., MONDAY, APRIL 17, 1911

PRICE TWO CENTS

WELL-DRILLING LORE COMPREHENSIVELY ARRANGED

U. S. Geological Survey issues interesting report containing valuable information

The deepest well in the United States is near West Elizabeth, Pa. Its bottom is 5,575 feet beneath the surface. The deepest well in the world is in Germany and is 6,572 feet deep. A more remarkable well perhaps, reaching a depth of 3,600 feet, was drilled for petroleum in western China by primitive methods and by means of such crude appliances as a cable made of twisted strands of rattan.

These facts and much other interesting information concerning underground supplies of water and oil and methods of getting at them are given in a report entitled "Well-Drilling Methods," by Isaiah Bowman, just published by the United States Geological Survey as Water-Supply Paper 257.

All rocks contain some water, but some formations, such as the granites, carry only an inappreciable amount. Sandstone, on the other hand, has an absorptive capacity of a gallon or more of water per cubic foot of rock and is the best water bearer of the solid rocks. Wells sunk in sandstone are usually drilled and the water derived from that rock is seldom polluted. To those who are contemplating sinking wells of increasing their water supply from underground sources this report, taken in connection with another report recently published by the Survey, "Underground Waters for Farm Use," Water-Supply Paper 255, will be of interest.

Mr. Bowman regards the use of well casing as the greatest improvement yet devised for oil drilling and notes that holes can now be sunk safely and rapidly to a depth of 5,000 feet. He describes the various tools and rigs required for different kinds of drilling, ranging from those required for the shallow hand-driven well of perhaps 20 feet to those used in drilling wells of maximum depth.

Water-Supply Paper 257 traces the history of well drilling from its earliest practice in China down to date and contains descriptions of the many methods of drilling now in use in the United States, including not only drilling for water but for oil and other resources. The credit of reducing well drilling to a science belongs to the Chinese but in this, as in many other things, the Chinese engineers have made but slight improvement during the last century, which has witnessed so remarkable an advance in mechanical development in the United States.

INTERESTING MEETING OF PROFESSIONAL ENGINEERS Students invited to important affair

On Friday evening, April 21, at 8 o'clock, the Boston Society in cooperation with the Boston section of the A. I. E. E. and the Boston Society of Civil Engineers will hold a meeting on Oil Fuel for Steam Boilers, in the Edison Buildings, 9 Boylston Street, at which a paper will be presented by B. R. T. Collins.

The paper deals with the possible use of oil fuel for steam generating purposes in the Atlantic coast states, its safety and permanency of supply, as well as conditions under which it may have special advantages over coal.

Mr. Collins is well qualified to speak on this subject as he has been a consulting engineer with this line of work as a specialty for 18 years. He has worked all through the Southwest and West from Texas to San Francisco and is now connected with that corporation which needs no description to Tech men other than its name, The Stone and Webster Corporation.

Any Institute man who is able to attend this meeting and does not is literally throwing away an opportunity that seldom comes to a student. The students are most cordially invited and the officers are pleased to see the students take an interest in their meetings. The student has the rare opportunity of mingling with the prominent engineers of Boston who have made good in their respective professions.

JUNIORS AND FRESHMEN PUSH THEM TO THE LIMIT AND 1912 GEBBS SECOND

Small crowd to watch the Meet; Two-twenty best race of the afternoon; Salisbury individual star, Cummings comes second

At ten minutes before three, Saturday afternoon, the first event of the Spring Meet, the preliminary heat of the hundred yard dash, was run off with a very small crowd and little enthusiasm on the part of the spectators. The weather finally decided to be kind and the skies cleared just about two o'clock but that didn't seem to make any difference, the crowd didn't come. The men who had entered all showed up, the meet ran off without a hitch, and there were some very interesting finishes in some of the events.

In the hundred yard dash, the preliminary heats were very close and the second one eliminated no men, so there six in the final heat. There was a mistake and this had to be run over but Wilson was right there and captured first with Trull close after him and Dick Gould a good third. The high jump, which running at the same time, was an easy win for Dalrymple, with Gould as runner-up and Hall and Eberhard tying for the third position. The freshmen both cleared five-four but that seemed to be their limit and Gould was left to fight it out alone with Dalrymple. He seemed at times to be over-confident and missed his tries when the bar began to climb up in the air.

Germain took the lead from a field of four in the mile and kept it through the first lap with the field bunched close at his heels. He and Watkins began to pull away from the field slowly and at the end of the third quarter Watkins took the lead which he kept to the finish with Germain close behind and the other two close together fifty yards behind. Considering the fight between Watkins and Germain for the Batchelder Cup, which was won by Watkins, the time was not very fast.

In the shot-put, Chamberlin helped himself to the blue and as Metcalf and Wright were rather off color, McLeod and Bucky Freedman stepped in and took second and third with ease. Chamberlin made a try for the record with the ball but there was no use, it wouldn't go quite far enough. While the shot was being shoved through the air, the four-hundred yard dash was pulled off on the track. Salisbury took the lead from a pole position and held it till he had won the Rockwell Cup. Thompson '13 crawled up to him during the first hundred but he was soon passed by Guething, who pulled up slowly on Bill and the last hundred was neck-and-neck to the tape where Salisbury won by inches.

In the high hurdles the first heat went to Chase after a star race in which he he knocked down about all the hurdles. Cummings took second in easy style. Fox won the second with Strachan for runner up. The final heat went to Cummings in sixteen and four-fifths seconds, giving him the Hurd Cup. Fox and Chase got second and third respectively.

On the center of the field the big men were throwing the hammer around with lots of power and but little eye for direction. Metcalf rather had it on the rest of the bunch and got the first place with Ruby and Owen coming close behind and Chamberlin slightly in the shade. Benson drew the pole in the half mile and took the lead, with Bylund and Pete Whit White together just behind him for the first lap. The second one showed little drawing out. Benson won by five yards over Bylund who had a couple on White at the finish, with Marceau trailing him, him, and Sampson still to come.

Over on the straight away Salisbury won a very close race in the two-twenty. Wilson and Guething both pushed him to the limit and Thompson was close behind. This was a very close finish and the order was in doubt all the way to the tape. Salisbury then got another ribbon by winning the pole vault with a "near" record-breaker to his credit. Allen left early and Greenleaf and Rankin soon dropped out. With the bar up for

a record try, Salisbury had the luck to just brush it down.

McLeod now came into his glory again by cleaning up the discus in fine style, far ahead of Chamberlin and Metcalf who tried to follow him. One of his throws needed only to be measured with a steel tape and he might have had a record. The two mile was called on the track and the men lined up with Davis '11 at the pole. Shedd '14 jumped into the lead for the first quarter. The Ferry brothers and Watkins were bunched close behind him but in the second Watkins and Nye both pull by Ralph Ferry. The next lap brings Watkins in second followed by Earle Ferry and Davis, but Nye is dropping back and Shedd still continues to gain. In the sixth the Freshman leads by twenty-five yards and Watkins has gone back to fourth. The next lap gives Watkins a chance to pass Davis again and Shedd pulls still further ahead. At the finish, Shedd has forty yards on Ferry with Watkins twenty more behind him and Davis just coming.

Cummings almost gave the first heat of the low hurdles to Fox '14 after a fairly close race up the straight-away. Munch and Gabriel fought all the way to a very close finish that Munch got at the tape with Strachan third. The final was still closer and Cummings had to work for the victory for he and Munch topped the last hurdle together and he won by inches, Fox took the third place away from Gabriel.

Four men had qualified when the last event of the day, the broad jump, was called and it was quick work to find that Shepard was far in front of Hadley and Gould. On the last jump Hadley got second and Dick had to put up with third.

The summary:—

100 yd. dash. Won by Wilson '14; Trull '13, 2nd; Gould '11, 3rd; Hadley '14, 4th.

Time—10 2-5 sec.

220 yd. dash. Won by Salisbury '11; Wilson '14, 3rd; Guething '14, 3rd; Thompson '13, 4th.

Time—24 sec.

440 yd. dash. Won by Salisbury '11; Guething '11, 2nd; R. C. Thompson '13, 3rd; A. G. Thompson '12, 4th.

Time—53 2-5 sec.

880 yd. dash. Won by Benson '12; Bylund '13, 2nd; White '11, 3rd; Marceau '12, 4th.

Time—2 min. 3 2-5 sec.

1 mile run. Won by Watkins '12; Germain '13, 2nd; Milliken '13, 3rd; Cartwright '12, 4th.

Time—4 min. 33 1-3 sec.

2 mile run. Won by Shedd '14; E. E. Ferry '12, 2nd; Watkins '12, 3rd; Davis '11, 4th.

Time—10 min. 8 3-5 sec.

120 yd. high hurdles. Won by Cummings '11; Fox '14, 2nd; Chase '14, 3rd; Strachan '13, 4th.

Time—16 3-5 sec.

220 yd. low hurdles. Won by Cummings '11; Munch '13, 2nd; Fox '14, 3rd; Gabriel '12, 4th.

Time—26 4-5 sec.

High jump. Won by Dalrymple '12; Gould '11, 2nd; Hall '14, 3rd; Eberhard '14, 4th.

Height—5 ft. 6 in.

Pole vault. Won by Salisbury '11; Allen '11, 2nd; Greenleaf '12, 3rd; Rankin '13, 4th.

Height—10 ft. 9 in.

Broad jump. Won by Shepard '12; Hadley '14, 2nd; Gould '11, 3rd; McLeod '13, 4th.

Distance—20 ft. 2 in.

Shot put. Won by Chamberlin '11; McLeod '13, 2nd; Freedman '12, 3rd; Wright '12, 4th.

Distance—39 ft. 6 in.

Discus throw. Won by McLeod '13; Chamberlin '11, 3rd; Metcalf '11 3rd; Ruby '12, 4th.

Distance 115 ft. 3 in. New record.

Hammer throw. Won by Metcalf '11; Ruby '12, 2nd; Chamberlin '11, 3rd; Owen '14.

Distance—122 ft. 8 in.

Those who are contemplating running in the B. A. A. Marathon should see to it that the shoes they wear have soles

FRENZIED FRENCH IS A BIG SUCCESS

First performance in Worcester is most gratifying to critics SHOW'S SURPRISINGLY SMOOTH

Coach Sanger and authors much pleased Success of Show is assured

If the reception of the Tech Show, Frenzied French, at its initial public performance in Worcester, last Saturday night, is any criterion, the play that Vose and Seligman turned out is a winner from overtone to finale. Premiers are ever trying affairs but the Show and Shows and its players acquitted themselves in a way worthy of the theatrical traditions of the Institute. The enthusiastic approving applauding of the of the audience was ample proof of that.

The leading roles were acted with distinction. Coach Sanger was very much pleased with the way the men went to to work and the way the cues, a difficult thing at best, were managed. A great deal of credit is due the chorus. The improvement since the last rehearsal was very marked. Co-author Voce beamed his approval. Every song number was encored again and again.

De Florez as the French chauffeur scored a distinct and individual hit. The audience took very to his style very well. Brown as the Butler was also very much liked and applauded.

Faunce, as the Grind, was at his best in his Sherlock Holmes song. His song, together with his dancing, brought down the house. Smythe's Inspiration song was also very good. He made a most bewitching girl. It is rumored that some of the Johnnies forgot themselves enough to send around notes and flowers.

Hastings and Wetherald should receive great praise for the manner in which the Every Juliet has a Romeo song was sung. Whitten as G. B. Howe made quite a little of his part. The rest of the cast did creditable work.

that are not badly worn and another thing to keep in mind is: Don't swallow cold water, but simply gargle the mouth and throat with water of an ordinary temperature.

The Point Summary:—

	1911	1912	1913	1914
100 yd. dash	2	0	3	6
220 yd. dash	5	0	1	5
440 yd. dash	5	1	2	3
880 yd. dash	2	6	3	0
1 mile run	0	6	5	0
2 mile run	1	5	0	5
120 yd. High Hurdles	5	0	1	5
220 yd. Low Hurdles	5	1	3	2
High Jump	3	5	0	3
Broad Jump	2	5	1	3
Pole Vault	8	2	1	0
Shot Put	5	3	3	0
Discus Throw	3	3	5	0
Hammer Throw	2	8	0	1
Totals	48	45	28	33

CALENDAR

Send all notices for calendar to E. W. Taft 1913 Institute Committee at the Cage.

Monday, April 17.

1.00—Tech Borad Mtg.—Union.
4.15—1913 and 1914 Cross Country Practice—Field.

4.15—1913 Baseball Practice—Field.
5.00—Technique Board Mtg.—Union.

Tuesday, April 18.

1.00—Tech News Board Mtg.—Union.
1.20—Technique Rush—B. A. A. Oval—Irvington St.

4.15—1913 and 1914 Cross Country Practice—Field.

4.15—Union Dining Room Com. Mtg.—Dean's Office.

4.15—1913 Baseball Practice—Field.

Wednesday, April 19

8.00—Spring Concert—Copley Hall.

Thursday, April 20

2.00—Tech Show—Shubert Theatre.

Friday, April 21.

2.00—Tech Show—Shubert Theatre.
8.00—Junior Prom—Hotel Somerset.

TECHNIQUE RUSH AT OVAL TUESDAY, 1.20 P. M.

THE TECH

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Printed by Maugus Printing Co.,

Wellesley, Mass.

There are not many out of town meets held near enough to the Hub to attract a very large representation of Tech men but Providence is not such a great distance from Boston. Have you thought yet of making the trip down there with the team next week Saturday?

To the Editor of the Tech:

I noted with considerable interest the article in The Tech of April 6, concerning the proposed journal of the Civil Engineering Society. Having been actively concerned with the preliminary plans last summer, I was very much interested at that time and regretted that it was deemed advisable to give up the idea for this year.

Now that the matter has again been brought up I hope it will be thoroughly discussed and if there appear to be no serious difficulties in the way, I certainly hope that another year may see the Civil Engineering Journal. If you will permit the criticism, the article previously mentioned did not bring out as clearly as might be done, the advantages of such a journal.

In every paper or journal there must be a news department and a business staff and possibly an art department. The Civil Engineering Society has the nuclei of each of these, drawing, as it does its members from three courses. The advantages of being able to write well are many. To quote a recent journal "The ability to speak and write clearly and forcibly—to express his thoughts and understandings and to describe his works so that others may understand them—is one of the most valuable items in the equipment of the engineer. Every engineer is, sooner or later, called on to discuss technical matters with clients, to present details and explanations of engineering subjects, both orally and in writing, before public gatherings, committees and boards of directors, consisting of non-technical men; and to prepare specifications and contracts, reports, descriptions of works, etc. in the course of this professional duties." The ad-

vantages of the training acquired as a member of the business department need not, after the admirable discussions before our recent Congress of Technology, be further discussed.

I would like very much to see the journal published and if the backing of the student members and faculty can be assured, I feel certain that the first issue will appear next October.

Oliver D. Powell

COMMUNICATION

To the editor of the Tech:

I am going to make use of your communication column to bring to the public eye the outrageous disrespect shown by some Freshmen to the Professor in U. S. History during the History lectures in Huntington Hall. This lies in the fact that men not satisfied with the way the lectures are carried on rise and pass out of the room with heavy footsteps, while part of their colleagues actually applaud their disgraceful action by footstamping. Should this be permissible? Is it right that in this course in which the discipline is not at all heavy, men should thus abuse their privileges? If a man has really such most important business, which he knows will necessitate him leaving ten or fifteen minutes after the lecture has commenced, should he not stay away entirely and thus help to rid the Hall of the obnoxious element which so disturbs the lecture as to drown out the lecturer's voice and cause him serious embarrassment. As an eye witness to such despicable actions, I have noticed that it is these men who leave lectures early that seek the furthest corners of the room on examination days, and even drop out of sight altogether.

As President McLaurin said at the convocation last Monday, the Institute is a place for men to work, not for boys to play. The actions which have been carried on in Huntington Hall during every lecture, especially the footstamping, are not only silly and childish but also asinine and contemptible.

At the State University of Iowa a recent action of the faculty has taken away the two hours credit formerly given to women students for dancing.

At Vanderbilt University a student who is absent from classes when representing the college in athletics or acting as a fraternity delegate receives cuts for only one-half the number of absences taken.

Kentucky State University has established a course in Heating and Ventilating open to Engineering students.

The University of Keio, Japan, will send a base ball nine to tour the United States this spring.

At the University of Nebraska an annual inter-fraternity in-door athletic meet is held.

North Dakota Agricultural college has a peculiar custom in connection with its college declamatory contest, which consists in giving away 1,000 loaves of bread to those attending.

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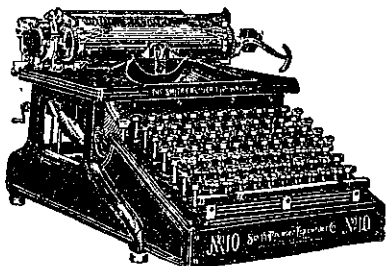
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COLLEGE NOTES

The girls of the University of Minnesota are petitioning for a gymnasium. Nearly every girl in the school has signed the petition.

President Taft has invited his classmates of 1878 to hold their annual banquet at the White House this year.

The winning team in the Freshman-Sophomore debate at Minnesota, will receive \$100.

Kenyon College is appealing to her alumni to wipe out a large athletic debt.

The University of Wisconsin will practically own the State from now on, for from its alumni come the Governor, Lieutenant-governor, Attorney-general, Commissioner of Insurance, seven State senators, and three Congressmen.

Students of the University of St. Petersburg, Russia, have become so rebellious that several of the professors have resigned.

The Dartmouth record for the mile run was broken recently by Paul Harman, who came to the University from the University of Maine.

The results of the class elections at Cornell this year disclosed that well known athletes in each of the classes were returned victors at the polls. The president of the senior class is James Eugene Bennett, of Youngstown, Ohio, the captain of their varsity basketball team and a well known club man. Bennett has been very prominent in athletics while at college, having played on the foot ball and track teams and rowed on the class crews.

Co-eds are given places on the staff of the University of Washington Daily.

Middlebury is to receive a gift of 10,000 acres of woodland as the foundation of a school of forestry.

Thirty-five students at the University of Iowa were suspended for increasing their Christmas vacation three days.

The catalogue of the University of Pennsylvania shows that there are nearly 600 women studying at the university.

To show the benefits of higher education the Chinese students' Club on Thirty-First street, New York, put the following college yell over the goal posts at their December banquet:
Rah hoo hah!
Sis boom bah!
Chung hua, chung hua,
Hoola, hoola, voila, voila,
China! China!

The students of the University of Pennsylvania recently gave a "testimonial dinner" as a send-off to retiring Dr. C. C. Harrison, who has been the head of the institution since 1894.

The Tech

Offers Opportunities for Mutual Benefit in the Competitions for the Various Offices IN NEWS ADVERTISING AND CIRCULATION

Those in charge of each of these departments can be found in THE TECH Office from 8:30 to 9:00 daily

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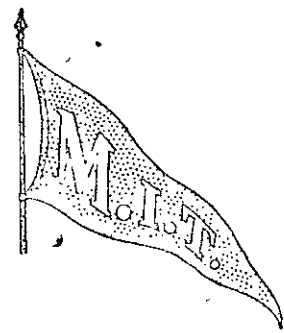
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Department of Egyptian Art

Mr. Louis Earle Rowe

will meet visitors to the

Exhibition of Finds

by the Harvard University—Museum

of Fine Arts

Egyptian Expedition

in the Forecourt Room

from 2.30 P. M.

Department of Chinese and Jap-

anese Art

Assistant Professor Arthur Pope

will speak on

The Conventions of Chinese and Jap-

anese Painting

at 3.45 P. M.

in the Japanese Study.

NOTICE

All Episcopalians are urged to come to
the 7 o'clock service held in Trinity
church on Easter morning. Also are
the members of the Brotherhood of
St. Andrew asked to come to this service
instead of the 8 o'clock service as per
notice.

NOTICE

The following seats for Tech Show
have been lost or stolen and are absolutely
worthless to anyone except the rightful
owners.

Thursday—Balcony—H—8—10.
Thursday—Orchestra—O—1—3.
Friday—Balcony—A—1—3—

Lost: In Library Wednesday a note
book containing Organic Chemistry notes
Finder will kindly leave at Cage for
F. W. Barker Jr.

Lost:—Tech Field, Monday afternoon—
First Baseman's glove. Given to friend
to keep. Friend did so. Friend please
return and oblige
Arch Eicher.

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