

THE TECH

VOL. XXXII. NO. 76

BOSTON, MASS., MONDAY, JANUARY 13, 1913

PRICE TWO CENTS

TECH BENEFACTOR MAY BE REVEALED

Identity of "Mr. Smith" Expected to Be Announced at Alumni Banquet.

It has been rumored that the identity of the mysterious "Mr. Smith," who recently gave the Institute two and a half million dollars, will be revealed at the big alumni banquet to be held in New York city next Saturday night. Over a thousand Tech graduates have expressed their intention of being present, coming from all sections of the country. An award is to be given to the alumnus coming the greatest distance to the gathering, which will doubtless be closely contested, as registrations have already been made from Utah and the Canal Zone. Boston will be well represented, more than fifty having already registered for the trip to the metropolis.

An interesting feature of the banquet will be the presence of Sir Ernest H. Shackleton, who will speak on his experience in South Polar explorations. It is a coincidence that Ronald Amundsen, the man who outdid Shackleton by gaining the South Pole itself, is in this country, and that President Maclaurin, who will sit beside Shackleton at the banquet, three days later will introduce Amundsen to his Boston audience from the platform of Tremont Temple.

Among the representative graduates who will be in attendance the following names have been mentioned: Coleman Du Pont, '84, the powder magnate; Captain David A. Lyle, U. S. A., '84, the inventor of the Lyle gun; H. O. Bosworth, '02, manager of the Mine and Smelter Company of Denver; S. G. Bates, '99, Vice-President of the Eastern Kentucky Railway Company, of Riverton, Kentucky; Lawrence Addicks, '99, Superintendent of the United States Metal Refining Company; Whitney Conant, of the Jersey City water supply, and many others.

M. E. SOCIETY TALK.

Dr. Rosenzweig to Speak Today on Lenz Engine.

Today, at 4 P. M., in Room 11, Engineering B, Dr. Rosenzweig, of the Erie City Iron Works, will address the members of Course 11 on the action of the Lenz engine under superheated steam. The members of the Mechanical Engineering Society are exceedingly fortunate in securing for their speaker a man who has been in constant demand by all the best colleges in the country, for he has spoken on this same subject at Yale, the University of Minnesota and at similar institutions.

The lecture will be adequately illustrated with appropriate lantern slides, and to enable all to be present an invitation is extended by the officers of the society to all men who may wish to come.

1914 PLAYS CUSHING.

Tonight, at 8 o'clock, the Junior basketball team will play the strong Cushing Academy team on the latter's floor. The 1914 team is an exceptionally strong one this year and has won a great majority of its games to date. They go to Cushing with a good record, and if they put up the same consistent game that they have previously played they will stand a good chance of winning another victory.

EXCELLENT RESULTS IN TEST OF POWER PLANT

Seniors Show Keen Appreciation of Methods of Testing—Best Test in Years.

The object of the one hundred and twenty-hour plant test, just ended, was first to determine and give statistics as to the efficiency of the plant as a whole, over an extended period of time, thus giving average results embodying all the fluctuations to which a power plant is subject. Secondly, to give the Seniors a thorough knowledge of, and practice in, standard methods of testing power plants.

During the test the students act exactly as skilled experts examining a commercial power plant. Before commencing the test the men conducted a number of experiments and individual tests on the different pieces of apparatus that make up the plant. This preliminary work has been carried on in both the Mechanical and Electrical Engineering Laboratories. Furthermore, the Seniors have received prior to this work lectures and recitations on the testing of power plants. Thus the men entered upon this work with a thorough knowledge of what they were to do and the problems that confronted them.

Professor E. F. Miller, head of the department of mechanical engineering, was nominally in charge of the test; however, he delegated the actual supervision of the students to his assistant, Professor Taft.

The entire plant was divided into thirteen stations and the men were assigned to their respective places in accordance with printed schedule. Each man worked eight consecutive hours, and during this time took readings of instruments and recorded data pertaining to this particular station. To secure accuracy, all totalling and averaging at the end of, and during each shift, was checked by one or more students. This procedure necessitated each student being intimately familiar, not only with his own work, but also with that of his adjoint. (Continued on Page 3.)

WRESTLERS MEET SALEM.

Team Goes to Salem Thursday Evening—Nine Events.

The wrestling team will have its first real match of the season on Thursday evening, when they meet the fast Salem Y. M. C. A. team at Salem. There will be matches in nine classes, and Captain Treat and his men have been working hard lately, in order to be able to win the majority of the matches. Last year, at this meet, the Tech team won only one of the nine, but with the strong team which will be sent this year better results may be expected. The team has already had a practice match with the fast East Weymouth team, and the men showed up fairly well at this meet. Since then the practice has been steady and the improvement fast. There are several stars on the team, and all the others are consistently good in their performances. Kelly, who won his match at Weymouth, is the champion of the West at his weight, having won the title while a student at the University of Oregon. Another new man is Sabin, who looks like a winner, and has shown good form so far. Also there are Captain Treat and Smythe-Martin, both members of last year's team, who may be counted upon to do good work.

ORCHESTRA RENDERS SUCCESSFUL CONCERT

Aided by the Glee Club and H. G. Mann, '16, Receives Much Applause.

The Tech Show Orchestra held a concert at Colonial Hall in Lowell last Saturday evening. The performance commenced promptly at 8 P. M. and continued until about 10.

The program was as follows:
1. March—"Through War to Victory" Von Blon Orchestra.
2. Vocal Quartet..... Selected Quartet.
3. "Norwegian Dance"..... Grieg Orchestra.
4. Reading Selected H. G. Mann, '16.
5. "Song of the Soul"..... Trier Orchestra.
INTERMISSION.
6. March, from "Suite"..... Lachner Orchestra.
7. Vocal Quartet..... Selected Quartet.
8. "Venetian Love Song"..... Nevin Orchestra.
9. Vocal Solo—"Oh, Promise Me," DeKoven V. M. F. Tallman, '14.
10. "Waves of the Danube"..... Ivanovici Orchestra.
11. "Stein Song"..... Bullard, '87

The whole program was very well rendered and the concert was an exceptionally good one. Mr. Osborne McCarthy, the Show's conductor, proved himself a very able leader, and it was due, for the most part, to his efforts that the concert went off so smoothly as it did. The numbers played by the Orchestra were excellent, and both the Quartet and E. G. Mann deserve a great deal of credit for their share of the work.

The entire performance was characterized by a snap that has not been present during the former concerts presented by the Orchestra. The audience showed their appreciation and enthusiasm by liberal rounds of applause after each number. They all enjoyed themselves, and there were many favorable comments upon the Orchestra and the performance in general. (Continued on Page 3.)

FRESHMEN DEFEATED.

Lose Close Game to Quincy Y M. C. A. Team Saturday.

Saturday night, at Quincy, the Tech Freshman basketball team met defeat at the hands of the Quincy Y. M. C. A. team. The score was 22 to 19, which shows the closeness of the game. Wilde and Merritt did the best work for the Freshmen.

The summary:
Quincy Y. M. C. A. Tech, 1916.
Parker, r. f. l. b. Wilde
Rich, r. f. l. b. Reycroft
Trask, l. f. r. b. Ross
Jenkins, c. c. Dewson
Rich, r. b. l. f. Merritt
Parker, r. b. r. f. Ziner
Kenn, l. b.
Score—Quincy Y. M. C. A., 22; Tech, '16, 19.

Goals from the floor—Trask 2, Jenkins, Rich 3, Kenn 4, Wilde 3, Reycroft, Ross, Dewson, Merritt 3.

Goals from fouls—Trask 2, Merritt. Referee—Stone. Scorer—Larose. Timer—Lenahan. Time—20-minute periods.

ARCHITECTS' SOCIETIES WILL MEET JOINTLY

Will be in Memoriam to the Late Professor Despradelle—To- day at 2.30, in Pierce.

At 2.30 o'clock today the Architectural and Architectural Societies will hold a joint meeting in the lecture hall on the fourth floor of Pierce Building. The meeting is to be in commemoration of the late Professor Desiré Despradelle.

Professor Despradelle, Rotch Professor of Architectural Design, was a man of unusual talent, and it was largely through his untiring efforts that the architectural department attained its high degree of efficiency. His loss to the Institute has been most keenly felt this year, and would have resulted in a severe blow had it not been for the most excellent work of Professor Duquesne, his successor, in maintaining the high standards of the department. Among the world's greatest authorities on architecture, Professor Despradelle stood for years at the head. He was vice-president of the Society of Beaux-Arts, Architects of America. Received first promotion at the Ecole des Beaux-Arts, 1882; many of the prizes at the Ecole des Beaux-Arts and Societe Centrale des Architectes Francais; he was awarded the Grand Prix de Rome, 1889; Laureat of the Institute de France; Officier d'Academie; Officier de l'Instruction Publique; awarded first gold medal of the Salon, Paris, in the department of architecture, 1900; Membre Correspondent de l'Institute de France.

The members of the Architectural and Architectural Engineering Societies, and all others interested, are cordially invited to be present at the meeting. The speakers will be Professor Sumner and Mr. Codman, who was the business partner of Professor Despradelle.

CORRECTION.

The article on the Institute Committee in Saturday's issue of THE TECH stated that the point system rating of the Business Manager, Editor-in-Chief and the Managing Editor was eight points. This should be corrected to nine points.

Owing to the excessive crowd of eight paid admissions to the interclass games last Friday the Athletic Association will be forced to build new bleachers for the next meet. It is said that the former bleachers were not able to stand the strain of bearing so much weight.

THE WEATHER.

Forecast for Boston and vicinity: Fair and colder, southwest to west winds.

CALENDAR.

Monday, January 13, 1913.
1.35—Meeting of all Men on the Athletic Department of THE TECH—Lower Office.
4.10—Dr. Rosenzweig Addresses Mechanical Engineering Society—11 Engineering B.
5.00—Meeting of the News Board of THE TECH—Lower Office.
Tuesday, January 14, 1914.
1.15—Institute Committee's Picture—Notman's Studio.

THE TECH

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MONDAY, JANUARY 13, 1913

It is gratifying to know that the Seniors have been so successful in carrying out the plant test which involved 120 hours of hard work, and the application of the theory which they had been learning for the past three years in the various courses of the mechanical and electrical engineering departments. We are chagrined over the fact that our article which appeared in Friday's issue, January 10th, should have been so misleading as to have been taken in the least seriously. It was certainly not our intention to deride in any way such an important test as has been going on during the last week, for it is too well understood what this test means, and only to the men who are conducting it and carrying on the work, but to the Institute.

Efficiency tests are of particular importance at this time, for the cost of fuel is ever on the increase. It is very difficult to carry out a plant test and obtain results which are absolutely beyond reproach. We can do no more than express our heartiest congratulations to the Mechanical Engineering Department that they succeeded in carrying out the present test with such despatch and thoroughness, and obtaining results which bid fair to represent with much accuracy the actual efficiency of the plant.

RESULT OF THE CONTEST.

We take pleasure in being able to announce this morning the result of the recently concluded Pi Delta Epsilon Editorial contest. First honors have been awarded to Prescott W. MacNeill, 1915. It was found that he excelled both in originality of idea and treatment.

However, ability was not confined to the winner alone. Other men have shown up very well in the contest, and special mention is to be made of the work of Pervical J. Munn, 1915, and Charles W. Loomis, 1916.

In all, eight men took part, the majority of these remaining in the contest to its close. It is regrettable that all may not be mentioned, as they all showed capacity, yet we would remind the losers that not all would be winners.

No confetti will be used at the Yale Junior Prom this year, as the authorities have forbidden its use. The cause of this action is the fear of fire and loss of life which is likely to be caused by the use of confetti.

COMMUNICATION.

Editor of THE TECH:

Dear Sir:—Perhaps it is rather out of place to comment on the methods of those who instruct in the wily ways and means of obtaining knowledge. However, you claim in numerous editorials that you welcome frank opinions from students, and if this has no other virtue it is certainly frank.

Now as regards instruction. I ask you as a sane man is it instructive to find out all a man does not know and yet refrain from telling him anything? It is one thing, not to know and another to know you do not know. Knowing that you do not know is of no intrinsic worth in itself, and it matters not at all whether it is the instructor or the student who realizes the entire absence of wisdom. Yet there are instructors that make a specialty of determining your entire lack of wisdom, then call your attention to that fact with or without undue simplification, and the recitation is over. I ask you as a sane man is that efficient instruction?

On the other hand there is the ideal instructor. He knows that you do not know yet, and yet he never lets on. This man makes a specialty of eradicating your ignorance and possesses the necessary psychological knowledge and tact to make the process a pleasant one. He does not waste your time and his own dwelling on your diminutive cerebral cavity, but gets right down to bed rock and subjects you to mental gymnastics, whether you will or will not. This instructor is a human being, and what is of more importance, he realizes that likewise you are made of flesh and blood.

Trusting this will find you in an instructive mood. I am, sir,
Very sincerely yours,
Knoitall.

COMMUNICATION.

Editor of THE TECH:

Greeting: Flat Earth.

I want to place a great subject before the young men readers of THE TECH—a work to make a great mark in this part of the world. Science, mechanics in practical work, reason and common sense, shows that the surface of the ocean is straight at its surface; that the whole earth and water is as flat as a large plate, and a grain of sand and a common eating plate would be in proportion to a large mountain on the larger earth.

This flat earth subject ought to begin with young engineers, surveyors and other young persons who know and understand the meaning of straight and horizontal in long distances—ten miles or more—west to east and north to south.

This is an important subject, because it is the basis for making new books on astronomy and geography. Engineers and surveyors work to a straight horizontal datum line in building railroads and canals and waterworks long distances, and we do not make any allowance for a vertical curvature of the earth.

An Architect and Engineer.

COMMUNICATION.

Editor of THE TECH:

Please don't think I am cursed with the "artistic temperament," but I certainly do think that the Fatima advertisement over the candy store in the Union living room is a crime. The room is a cosy old place, and all of us have a loving feeling for it, but why make it look like a Greek shine stand?
B.

The B. A. A. track team have been running on the track at the Tech Gym on the rainy days of the past week, when the track on the Oval was not fit for use. Carl Gramm, captain of the 1909 Tech track team, was among them.

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**B. A. A. HOCKEY TEAM
DEFEATS MONTREAL A. A.**

**Canterbury Breaks Record by
Making 34 Stops—Rough
Play by Montreal.**

The undefeated B. A. A. hockey team continued its string of victories by defeating the fast Montreal seven in one of the best games of the year. The game was wonderful in more respects than one, for besides shutting out the Canadians, Canterbury, the star goal of the B. A. A. team, set up a new world's record by stopping thirty-four attempts to shoot goals, twenty-eight being made in the first half.

The game, which was played in the Arena last night, ended with a score of 6 to 0. The score, however, does not tell the story, as the game was closely fought all the way, and replete with sensational plays on the part of both teams. The B. A. A. men showed themselves the better skaters, but the Canadians showed greater skill in handling their sticks. Finding themselves the slower men, the Montreal team began to use all their tricks, and started a strong, continual attack on the B. A. A. goal, only to have the puck shot out of danger by Canterbury. Then rough tactics began, and spills became frequent; even though the local team held their own in the rough work, and were stronger at the end of the game than the Canadians. During the second half the Montreal team slowed up in their attack, and did not force the puck to the goal as often as before, thus lessening the number of stops made by Canterbury. On the other hand, the B. A. A. men were still strong, and showed as much speed as at the beginning of the game. The score of the second half was the same as in the first half, B. A. A., 3; Montreal, 0, making a total of 6 to 0.

**SOPHOMORES VICTORS
IN BASKETBALL GAME**

**St. John's Prep Team Defeated
by Score of 23 to 10—Morse
Plays Well.**

The Sophomore basketball team won again Saturday afternoon, defeating St. John's Prep team by the score of 23 to 10. The game was closely contested, but the Sophomores seemed to have the jump on their opponents during the greater part. Both Newman and Morse showed up to good advantage, and put up a fine game for the Sophomores. Newman was one of the stars of last year's Freshman team, and it is interesting to note that he is again showing good form this year. Morse is one of the strongest players in the Institute and last year, when a Varsity team was maintained, he was one of the stars on it, although only then a Freshman.

The Sophomores started off well and at the end of the first half the score was 10 to 3, the Sophomores leading. During the second half the Prep boys made a slightly better showing, the scoring being: Tech, '15, 13; St. John's Prep, 7.

Tech, '15. St. John's Prep.
Quirk (Scully) r. f. l. b. Butler
Morse, l. f. r. b. Waite
Newman, c. . . . c. Donahue (Beresfort)
O'Brien, r. b.

l. f. Gloster (McLaughlin)
Donald, l. b. r. f. Corcoran
Score—Tech Soph, 23; St. John's
Prep, 10.

Goals from the floor—Morse 6, Newman 3, Scully 2, Corcoran 2, Gloster, Butler.

Goals from fouls—Newman, Corcoran, Gloster.

Referee—Doherty.

Timer—McAuliffe.

Time—Two 15-minute periods.

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PLANT TEST.
(Continued from Page 1.)

ing partner. The work on the different stations was as follows:

Station 1—Coal fired to boilers is weighed and samples taken to be used for purposes of analysis.

Station 2—Water fed to boilers is weighed. This gives the total water consumption; while station 1 gives total fuel consumption.

Station 3—Flue gases are analyzed to get the percentages of carbon dioxide, oxygen, carbon, monoxide and nitrogen. This enables one to judge of the relative merits of the combustion.

Station 4—Calorimetric determinations of the quality of the steam are made.

Station 5—Boiler pressures are read, temperatures of air outside and inside boiler room and also temperatures of the feed water.

Station 6—Temperatures of flue gases and also pressure of draft under boilers and in smoke stack is recorded.

Station 7—Record of weight of fuel fed to superheater, and the temperature of the steam as it leaves and enters is taken.

Stations 8 and 9—Output of Parson's turbine and weight of condensed steam recorded, also the reading of the vacuum and the pressure of the gases on the turbine.

Station 10—Steam pressure and counter readings on the Westinghouse engine are read and indicated and the condensed steam is weighed.

Stations 11 and 12—Condensed steam from all auxiliaries is weighed.

Station 13—Ringlemann chart is read to determine the relative density of smoke issuing from the chimney.

Besides individual station work each student plotted data obtained on charts, thus giving a graphical representation of the manner in which the fuel, water and power consumption varied in relation to each other.

This year official information from headquarters has been received that the plant test which was just ended was one of the best ever carried out. From beginning to end there was not a single hitch and everything went through with excellent regularity and thoroughness. The students entered into the work with zeal and earnestness and showed a keen interest in all the factors pertaining to the determination of the efficiency of a power plant.

CONCERT.

(Continued from Page 1.)

All the men in the Orchestra seemed to have enjoyed the trip, for on the way up they had a special car, and on the way back they used the same car and had a little concert of their own.

The following took part in the concert:

First Violins—A. M. Eisenberg, '12; P. M. Ginsburg, '14; V. C. Short, '15; O. C. Clisham, '14; H. L. Foster, '16; D. L. Patten, '16; B. H. Kerstein, '15; H. W. Ellis, '16.

Second Violins—C. M. Berry, '14; E. L. Haumann, '16; E. M. Fisk, '14; C. H. Ober, '14; S. M. Ellsworth, '16; P. E. Rudolph, '13.

Violincellos—F. L. Surls, '14; H. A. Sweet, '14; R. G. Dickinson, '15.

Cornets—N. E. Brooks, '14; F. D. Chandler, '16.

Clarinets—R. J. Tullar, '13; L. B. Miller, '15.

Flutes—E. E. Smith, '15; E. P. Boucher, '16.

Trombones—S. T. Helseth, '15; S. R. Holmes, '14.

Bass—R. W. White, '14.

Viola—M. O. Shin, '16.

Piano—J. M. Phillips, '16.

Quartet—G. Ewenson, '13; R. Doremus, '14; K. Robinson, '12; V. M. F. Tallman, '14.

Much joy has been expressed by the students over the action of the Faculty in omitting the final hour examinations in European History and several other subjects.

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY.

Boston, Mass., January 3, 1913.

The class in Knots and Splicing meets on Tuesday, from 10 to 11, and on Wednesday, from 4.15 to 5, in Huntington Hall, and on Friday, from 10 to 11, in Room 44 Rogers.

WALTER HUMPHREYS, Registrar.

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