

THE TECH

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PRICE ONE CENT

RECENT DEVELOPMENT IN ORE DRESSING MACHINERY

Prof. R. H. Richards Gives Very Instructive Lecture Before M. E. Society

Yesterday evening the Mining Engineering Society held the sixth meeting of the year in the Union. President Breyer first spoke of the proposed application of the Society with the American Institute of Mining Engineering. As the Institute has been very conservative about taking in young engineers as members, this will be quite a remarkable opportunity extended to Tech men. The matter was left undecided.

Following this, Professor Robert H. Richards, head of the department of Mining Engineering, was introduced. The subject of his illustrated lecture was "Recent Developments in Ore Dressing Machinery," which was the same lecture lately delivered before the American Institute of Mining Engineers at Pittsburg and also before the Canadian Society at Toronto. Professor Richards began by describing the various kinds of machinery for crushing the ore. Following this there were shown other appliances such as trommels on revolving screens for separating the crushed ore into various sizes, classifiers, pulsion jigs for concentrating the ore, and finally the Wilfley table.

After this general description Prof. Richards described his investigations with regard to settling velocities of different materials, principally quartz and galena.

Numerous kinds of settling tanks were shown, all of which gave approximately the ratio of 3.5 to 1 for the sizes of quartz and galena which would settle in the same time. By using a process known as "hindered settling" with the pulsion jig a ratio was obtained of 6.9 to 1 in some cases. For this reason the pulsion jig is a very efficient machine for concentrating the ore, as it uses only one twentieth of the power which other kinds of machines take using natural settling, also it uses one-half as much water and occupies only one-fifth of the space. Pictures were shown illustrating the development of the classifiers from the old "Hog trough" which used natural settling and was very inefficient to the hindered settling classifiers of the present day.

The Wilfley table was the next topic of the lecture and diagrams were shown illustrating the concentrations obtained using natural feed, sized feed and classified feed. It was shown that with natural feed the losses were high, while with sized feed the losses were much less and with classified feed the best results of all were obtained.

About sixty students were present, besides some members of the faculty. Following the lecture there was a social hour with refreshments.

There is sure to be some wonderful speed shown this spring before the intercollegiate championships. "Evens" for the century and 21 2-3s. for the furlong at this time of the year is marvelous running.

The Princeton rowing season starts Monday. The plans for the year have not been settled on as yet, but it is very likely that only class races will be tried.

Williams loses the services of Prindle, who had shown up prominently as a candidate for the baseball team. He was hit behind the ear by a batted ball and knocked unconscious.

"AROMATIC NUCLEUS" GIVES INSTRUCTIONS

For Securing Desk In Chemical Laboratory--Tech Union Tomorrow

A. Upon entering the laboratory show the Bursar's receipt for cash deposit (see Catalogue p. 306) to Miss Shrewder, in the supply-room, who will assign each student a desk. Then pass to an instructor and receive a pamphlet of instructions. Observe that one dollar is not charged for a key. Each desk will contain the necessary apparatus. Chemicals will be furnished as required. Check up the list and see that all the articles are in good condition. All claims for shortage should be made on pink slips, at the supply-room.

B. The apparatus in the desks is the property of the Institute and is loaned to students, who will be soaked for breakage. No charge is made for the use of "returnable" apparatus. When one's connection with the laboratory ceases, all apparatus must be cleaned. No rebate will be given for chemicals not consumed. Solvents in excess of two (2) liters must be paid for extra.

C. Each student is required to bring his own sample of aptitude, and may use his own procedure for analysis—using, however, only the apparatus furnished. The laboratory will be closed after 12, midnight.

Compound chemists subject to supersaturation will be furnished with a suitable stopper. The platinum toothpicks may be sold for cash to the chemical department.

Additional Charges.

D. A general charge of 60 cents is made to students who are registered for not more than four hours of laboratory work.

Students who fail to check up their desks and put them in order will be subjected to additional charge. Fully charged students may evaporate themselves to dryness on the hot plates.

A thermostat will be provided to keep the freshmen at constant temperature. Keep cool, or else ask an instructor.

(Signed) The Aromatic Nucleus.

GAME CANCELLED

Capt. Taylor of the Sophomore baseball team received word yesterday morning to the effect that the game with Volkmann for the afternoon could not be held.

The Volkmann Coach said that his men had not enough practice and that their chance of putting up their best game was not very good, hence he thought the game best be cancelled.

The Sophs put in the afternoon in practice, and played a scrub game.

Owing to the lack of a quorum the meeting of the athletic association, which was to be held yesterday, was postponed. Only ten men of the total membership of twenty-four responded to the call for the meeting.

It is regretted that the interscholastic track meets of Amherst and Dartmouth are scheduled for May 14. Many of the schools in the western part of the state were desirous of being represented at both meets.

CREW CANDIDATES ON THE CHARLES

Men Practicing With Harvard Shell On River Every Afternoon

The candidates for the crew are now practising on the Charles River. A shell has been hired from the Harvard Athletic Association and will be used until Tech has its own shell. Manager Herreshoff is now trying to get a line on a second-hand shell and he expects to have one soon.

Every afternoon the candidates report at the Union Boat House, and the men are each given a try-out. Usually there are three or four different eights out during the course of the day.

The coach is pleased with the way the men are taking hold of the work and sees the making of a fast crew out of the material. Most of the candidates are reporting at three o'clock, excepting a few who can not get around until four.

About thirty-five men are now reporting regularly. Many have had some experience in rowing, and of the others there are a number who are quickly picking up the knack of handling the oar.

COSMOPOLITAN CLUB

Only eleven active members were present at the business meeting of the Cosmopolitan Club last night. Although this was a quorum, the president decided to postpone the consideration of the question of joining the other Cosmopolitan Clubs of the country.

The rooms are now almost completely furnished, there being a piano, a reading table, a bookcase, chairs of various sorts, card tables, and games and magazines. There is now great need of pictures of cosmopolitan interest, but it is hoped that the members of the different nationalities will contribute these.

Keys are being distributed to the members, and it is the idea of the house committee that every member should have a key, so that he can visit the rooms when most convenient.

The membership has increased to \$2, including associate members who are neither students nor members of the instructing staff at Technology.

THE TECH DINNER

The Tech will hold an informal banquet on Tuesday, April 12 at the Union. Mr. Tracy, managing editor of the Transcript will be the main speaker of the evening and will give valuable advice and suggestions on modern journalism. Others who will be present are Professor Pearson and Mr. Carl of the English department, I. W. Litchfield, treasurer of the first board of the Tech, R. C. Tolman, editor-in-chief of The Tech in 1902, and Mr. R. Scharff, a former member of the board. Admission to the dinner will be open to all who have ever been connected with The Tech, and to all who ever intend to be. Mr. Scharff has promised to arrange a simple but satisfying dinner, and the price, although not yet decided upon, is sure to be reasonable.

BENBOW, BUSINESS MANAGER OF TECHNIQUE

Nominations Being Discussed For Society And Grind Editors

After a long discussion which threatened to result in a deadlock, David Fry Benbow, of Reading, Pa., was yesterday elected Business Manager of Technique 1912. Benbow is a lyric writer for the Tech Show. Last fall he was chosen class representative of the institute Committee and is now secretary of the Point System Committee. He is also a member of the Technique Electoral Committee.

The committee is now considering nominations for the positions of Society Editor and Grind Editor of Technique.

1913 TO PLAY ROXBURY

Teams Will Meet This After- noon At Tech Field

This afternoon at the Field, the Freshmen will meet the Roxbury Latin High School team on the diamond. This is the second game of the season for both teams. The Freshmen won from E. H. S. last Saturday in a close ten inning game; Monday, Roxbury Latin was defeated by the Cambridge Latin School by the score of 12 to 3.

Chase, the pitcher of the visiting team is one of their best men; Packard and Fox are also among the best players. It is expected that the Freshmen will start the game with either Hamilton or Hartford in the box; Thompson or Eastman will probably be behind the bat.

Roxbury's team will be probably Chase p. Smith 2b, Littlefield cf, Parkard c, Fox ss, Sheehan lf, Faunce rf, Lyons b. and Hyde 1b. All the Freshmen candidates will probably get in the game.

TO HEAR ABOUT PAINTS

"Paints for Structural Work" will be the subject of a talk by A. H. Sabin, consulting chemist for the National Lead Company, held under the auspices of the Architectural Society. The smoker will be open to all who care to come and will be at 8.00 P. M. Tuesday night, April 12.

CALENDAR.

Thursday, April 7.

6.30—Chem. Soc. Dinner, Union.
6.00—Dean Burton at T. C. A. Dining Union.
8.00—Musical Club. Concert, Temple Baptist Church, Dorchester.

Friday, April 8.

4.00—Technique 1912 Electoral Committee Meets, Union.
6.00—T. C. A. Dinner, Union.
8.00—Faculty Smoker, Union.

Saturday, April 9.

3.00—1912-1913 Track Meet, Tech Field.
3.00—Baseball, 1912 vs. M. A. H. S., Tech Field.
3.00—Baseball, 1913 vs. Wakefield, Wakefield.