

THE TECH

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BOSTON, MASS., FRIDAY, NOVEMBER 22, 1912

PRICE TWO CENTS

REV. A. A. STOCKDALE SPEAKS BEFORE T. C. A.

Large Crowd Hears Interesting Views of Prominent Clergyman.

Before one of the largest crowds ever present at a T. C. A. meeting, Rev. A. A. Stockdale gave a very interesting talk on current religious topics at the Union yesterday. These topics were questions previously handed in by students.

The importance of the church was one of the topics. He stated that the church cannot afford to stand still, but must be progressive, for it is just as essential to keep up with the times in religion as in other matters. The church as an organization is just as important to the moral and spiritual world as the baseball clubs are to the success of the modern baseball.

In answering the question, "Does a man have to be a church-goer to be a Christian?" the pastor said that anyone who tries to lead a clean life and do that which in his own judgment is right, is a true Christian, no matter what ideas he has of the church or religious organizations.

His views on Sunday baseball were particularly interesting. Being himself a baseball fan, he naturally could sympathize with those that enjoyed the game but had no opportunity to attend at other times than Sunday. If baseball were played on Sunday simply for the love of the sport rather than for financial gain, it certainly should be allowed. This ideal condition could never be reached, however, for managers of baseball clubs could hardly be persuaded to put up a contribution in place of the gate receipts. This condition was the case of the theatres. Provided the ticket office was done away with, the theatres should be allowed to run on Sunday.

PROM ELECTIONS.

Junior Prom Nominations Due— Election Results at Dinner.

Nominations for the Junior Prom are to be handed in by Friday, 10 P. M. The election ballots will be out the early part of next week. The election committee, composed of R. D. Salisbury, chairman, L. F. Hamilton, M. Paris and T. J. Duffield, will announce the results of the election at the annual Junior dinner, which comes off on Tuesday, December 3, at the Union.

JUNIOR BANQUET.

Tickets Sold at Cage Nov. 25. Good Speakers Promised.

The annual 1914 class dinner is to be held in the dining room of the Union on Tuesday, December 3. The tickets are seventy-five cents and will be on sale after November 23, at the Cage. The speakers for the evening have not all been decided upon, but a number of excellent talks are promised.

The committee urges every man to make a determined effort to be present to help make the dinner a success, and further requests that tickets be secured as early as possible, in order that an estimate can be obtained on the number of plates required.



LEADERS CROSSING GOLF LINKS IN N. E. I. C. A. A. RACE LAST SATURDAY.

FROM LEFT TO RIGHT THE RUNNERS ARE: HARMON, DARTMOUTH; BALL, DARTMOUTH; TABER, BROWN; BENSON, TECHNOLOGY; MARCEAU (BEHIND BENSON), DARTMOUTH, AND DAY, DARTMOUTH.

CROSS-COUNTRY TEAM LEAVES FOR ITHACA

Rousing Send-Off Given Runners At Trinity Place Station Last Night.

About two hundred loyal Technology men gathered at the Trinity Place Station last night to give the cross-country team on the way to Ithaca a rousing send-off. The official cheer leader, H. O. Glidden, and W. R. Mattson, the Senior Class President were on hand to lead the cheering. Coach Frank Kanaly and the following seven men made the trip: A. F. Nye, captain; R. E. Palmer, C. H. Wilkins, R. D. Bonney, C. S. Lee, M. E. Hill and F. J. Wall.

After cheering all the members of the team Coach Kanaly said a few words to the fellows. He said the team had had considerable hard luck and many setbacks this year which would be enough to discourage any team. But the fellows, he said, had put in a lot of hard work for this race and are out to do their best. This team, from the showing made in the time trials, is the fastest that has ever represented the Institute and should make a good showing in the run Saturday. As the train was pulling out the crowd gave vent to its enthusiasm in a succession of We Are Happy and regular M. I. T.'s, with the team looking on from the car windows.

A cheer was also given for Benson, the speedy Freshman, who is unable to go on account of an I. C. A. A. A. A. ruling which bars Freshmen from all contests. The Technology team goes up to Ithaca to make a hard fight for fourth place. They will have two strong contenders for this place in Brown and Pennsylvania, but have an even chance of finishing ahead of these two teams. The first three positions are conceded to Cornell, Harvard and Dartmouth, in the order named, with Cornell easily the favorite for the championship.

MR. WHITING TALKS TO CHEMICAL SOCIETY

"Development of an Electrolytic Cell" Subject of Last Night's Interesting Lecture.

Last night the Chemical Society had its second monthly meeting with Mr. Jasper Whiting, M. I. T. '89, as speaker. All the members went down to see the cross-country team off for Ithaca, and after they had shown their enthusiasm in this way they went back to hear the interesting and very instructive discussion on the "Development of an Electrolytic Process." Owing to the delay the business meeting was dispensed with, and Mr. Whiting started on an outline of the electrolytic cells in use prior to the invention of the Whiting Electrolytic Cell. He said that he was working on a process which required the electrolysis of brine for the production of caustic soda commercially, and as the ordinary diaphragm cell was unsatisfactory, he was forced to find some substitute for it.

He first mentioned some of the faults of this diaphragm cell. It is made of cement, with a porous diaphragm of asbestos. Whenever the level of the brine in one's side becomes greater than that in the other, or when one solution is more dense than the other, there is diffusion and consequent loss of efficiency through secondary reactions. Through this diaphragm the gases evolved, hydrogen and chlorine, pass and mingle, and on one critical occasion such a mixture was exploded by a ray of sunlight, causing great damage.

Investigation proved that the Castner type of cell was a great improvement. In this cell mercury is the cathode, and receives the sodium to form an amalgam, which periodically flows into a decomposing chamber, where the sodium reacts with water to form the caustic soda desired. But

(Continued to Page 3.)

MECHANIC ARTS CLUB MEETING TONIGHT

Will Discuss Securing Section for M. A. H. S.-Dorchester Game Thanksgiving.

Tonight the Mechanic Arts High School Club of the Institute will meet for the first time this year for a smoker and card party. A series of these entertainments are arranged every year for the Mechanic Arts students at Technology to preserve a social bond between them.

The principal business tonight will be the discussion of the reservation of a cheering section for Institute men at the Thanksgiving Day football game between the Mechanic Arts and the Dorchester High schools at the Dorchester field in Dorchester.

For the meeting tonight there will be a whist game, in which everyone will take part. The highest and lowest scores are to be presented with desirable Technology favors. These card parties are always much enjoyed. Following this refreshments will be served and an all-round good time will take place. In previous years club members have volunteered as entertainers, and it is expected that the same will be true tonight. The officers of the club urge Mechanics men here to attend tonight's smoker, which is free to the members of the organization.

NEW OFFICERS CHOSEN.

Naval Architectural Society to Have Dinner Nov. 26.

At a meeting of the Naval Architects yesterday noon a secretary and a treasurer were elected to take the place of H. B. Cady, who formerly filled both positions. Owing to the work, Mr. Cady found it advisable to resign, and the society realizing the increasing demands of both positions on a student's time, decided to choose a man for each office. The officers of the society now are: President, J. P. Constable, '13; Secretary, A. L. Todd, '14, and Treasurer, A. H. Walbridge, '14.

The first social function of the society will be a dinner, to take place November 26, at the Union. The officers of the club urge every man in the course to attend.

ATHLETIC MEETING.

A meeting of the Athletic Association has been called by President E. B. Germain, to be held in the Union this afternoon at 4.15 o'clock. There is important business to be discussed, and all members are requested to be present.

CALENDAR.

Friday, November 22, 1912.
4.10—Chess Club Meeting—Union.
5.00—Hockey Team Meets—Union.
5-6—Wrestling—Gym.
7.15—M. A. H. S. Club—Union.
10.00—Junior Prom Ballots Due—Cage.
Saturday, November 23, 1912.
3.00—Tech Show Lyric Competition Closes.
Cross-Country Race—Ithaca.

PROM. COMMITTEE NOMINATIONS CLOSE AT 10 P. M. TODAY.

THE TECH

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FRIDAY, NOVEMBER 22, 1912

THE SQUARE DEAL.

Fellows! How many of you have at some time or other registered a kick against some professor or instructor who you thought was "down" on you? Ninety per cent of you at least. Now then! How many of you have stopped to think what reason the gentleman in question had for taking this imaginary position. Probably not 10 per cent. of you. Those 10 per cent. of you found that this imaginary dislike was your own fault every time. You sub-consciously knew that the instructor had reason for disliking you, and the idea gradually grew until you were sure that you were disliked heartily. The actual facts of the case would show that being "down" on you was probably the thing farthest from the instructor's mind. Fellows, let's not hear any more of "Old So-and-So flunked me in a subject. He's down on me." Whenever you are tempted to say anything of this sort just stop a moment and try to discover what reason "Old So-and-So" has for failing you. If you analyze your own position you will find that you have not been doing the work. You have been trying to "bluff" through, and probably thought that you were "getting away with it" until you got your report. Why not be honest with yourself and admit that you did not do exactly the right thing? No professor or instructor is "down" on a fellow in the Institute. The men are chosen with particular regard to their fair-mindedness, and any one of them would consider it far beneath him to allow personalities to creep into his class room relations with the students. Rest assured that in Technocracy you will always get a square deal, and that if you receive an "F" or even "FF" you probably deserve it.

NEW TECHNIQUE EDITOR.

Board Elects Owen as Faculty Editor to Succeed Wyman.

At a meeting of the Technique Board, Paul Barry Owen, 1914, was elected to succeed Alfred T. Wyman as Faculty editor of Technique, 1914. Mr. Wyman was forced to resign, being over points after his recent election to the presidency of the Junior class. Mr. Owen was captain of his class football team in his Freshman year, and the following year rendered good service on the tug-of-war. The same year he was elected to the Technique Electoral Committee.

EDITORIAL SUBJECT GIVES WIDE SCOPE

"Distribution of Vacations" Next Subject—Due Monday at Cage.

"Distribution of Vacations" will be the next subject for the contestants for the Pi Delta Epsilon editorial prize. This editorial is due on Monday, at 5 P. M., at the Cage, and is the sixth subject to be written on in this contest.

Following are the rules of the contest:

It is announced that the subject for the next editorial of the Pi Delta Epsilon Editorial Contest is an optional one. Following are the rules governing the contest:

1. All editorials must have the name, class and address of its writer on each page.

2. Each editorial must be addressed to Pi Delta Epsilon Contest Committee and left at the Cage or in the upper TECH office by 5 o'clock of the day on which it is due.

3. Each contestant must have written on at least seventy-five per cent. of the subjects to qualify, and more credit will be allowed the contestant who writes on all subjects.

4. Contestants shall use their own judgment as to style and way of handling each subject, but shall refer to the editorial columns of THE TECH for the proper length.

5. Two subjects will be given out weekly during the first period of the contest, the first of which will be due on Tuesdays, and the second on Fridays. The subject for the editorial due on Tuesday will be published Saturday, and the second on Wednesday.

6. The information upon which editorials are based may be obtained from any source.

7. The manuscript of the editorials must be neat and present a good appearance.

HOCKEY CANDIDATES.

Practice at Arena Today at 5 P. M.—Entire Arena Secured.

All men who are cut for the Hockey Team will report at the Arena at 5 P. M. today. The whole Arena has been secured for an hour, insuring non-interference by outside skaters. This will be a great advantage, and it is hoped that all candidates will be on hand and ready for practice at the appointed time.

The Hockey Team is one of the most important athletic activities of the Institute. The season last year was especially successful, and it is hoped that the coming season will prove just as good if not better. All men who can possibly do so are requested to come out and try out for the team. A number of last year's team are back, but there is a good chance for anyone who will come out and try for positions, as the intention is to have a second team and also a scrub team this year. All men who have signified their intention of trying for the team and all men who desire to try out but have not yet so stated will meet at the Arena at 5 P. M. today.

VOLUNTEERS FOR T. C. A.

The T. C. A. would like men in the Institute to volunteer to give outside informal talks. Many men are speaking now, but there is need for many more, especially for a talk before some boys at the Somerville Y. M. C. A. on Tuesday evening, December 17. The T. C. A. can use as many men as will volunteer, and those so desiring are requested to talk with one of the committee: G. W. Duncan or E. W. Davis, stating their preference of night and subject.

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OPPOSITE YOUNG'S HOTEL

Guess I'll have to see "Good Old Burke the Tailor" pretty soon.

That big brother of mine told me to be sure to call on him at 18 School St., or to see Tom Hayes at 843 Washington St., as soon as I landed in Boston, and the bunch here tell me that was good dope.

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CHAPTER OF THETA TAU ESTABLISHED AT TECH

National Engineering Fraternity
Locates at 32 Westland Avenue.

Theta Tau, a national engineering fraternity, has recently been established at the institute. The fraternity has chapters at the University of California, Colorado School of Mines, University of Kansas, Michigan School of Mines and the University of Minnesota.

It has been established here to strengthen the bond of friendship between the engineering men in the institute, its scope being similar to Alpha Kappa Kappa and Nu Sigma Nu in medical colleges and Phi Delta Phi in law institutes.

They have located at 32 Westland Avenue.

CHEMICAL MEETING.

(Continued from Page 1.)

The efficiency of this cell is lowered by the inability of the sodium amalgam, which floats on the mercury, to pass under the diaphragm which separates the electrolysis chamber from the decomposition chamber. Mr. Whiting found that he would not be permitted to use this patented cell, and so he had to try some other type.

One of the most promising types was one of his which circulated the mercury by the inductive effect of an alternating current. But in this cell it was found that although the mercury circulated, the floating sodium amalgam remained perfectly quiet. Mechanical circulation of the mercury, such as was used in the Solvay process, was then tried, but Mr. Whiting found that the conditions of flow were so complex that the efficiency of the apparatus varied within very wide limits, often being as low as 20 per cent.

After describing these previously known types, Mr. Whiting outlined the steps that he followed in developing his own type of cell. There is first the "beaker" stage, when the work is carried on in the laboratory, and the chemistry of the process is put on a sound basis. At this time the investigation of previous records is made to see whether the new idea is patentable, and whether the industry which is to use the invention is flourishing enough to pay a profit on the work done. Then comes the second stage, when small sized models are made. In the case of his cell the work in the first stage was so well done that a severe test showed that the cell had an efficiency of over 96 per cent. Then life size models are constructed, and after one of these has been made as perfect as possible, several are grouped together to form a semi-commercial plant. If the work has been well done in the first three stages this step does not prove an insurmountable obstacle to the commercial utilization of the invention. The final step, the building of commercial plants, is but a growth from the smaller commercial unit.

In the Whiting cell the "beaker" stage was largely trying to find some more perfect means of circulating the mercury. A tank was arranged so that the mercury which covered the bottom could be drawn off very rapidly after it had received a certain per cent. of sodium through the decomposition of the brine which lay over it. After the cell had been made so that the mercury and the carbon electrode were in the most efficient location, it remained to suit the process to the conditions imposed by mechanical and commercial conditions. In this connection Mr. Whiting said that the chemist should call in the engineer for most chemical processes are ten per cent. idea and ninety per cent. development. He very aptly illustrated this point, and laid great stress on the statement that the average chemist underestimates factors not purely chemical.

GLASS SAND INDUSTRY HIGHLY SPECIALIZED

Many Plants in Mississippi Valley Employed in Sand Purification.

The preparation of glass sand has become a highly specialized business, and in the middle Mississippi Valley fifteen or more thoroughly equipped plants are at present employed. The materials used for glass sand in the United States, according to the United States Geological Survey, are mainly imbedded sandstones, and a complete process of preparation includes quarrying, breaking, crushing and grinding into component grains, screening, washing, draining, drying, and final screening to various sizes. Some beds of sandstone are so friable and pure that only blasting down and slight crushing are necessary before the sand is dried and screened. Many plants, however, wash their sand in the course of preparation, particularly those in Illinois, where hydraulicing is employed to obtain sand from the quarries. Washing doubtless removes, even from high grade sand, considerable silica in such a fine state as to be detrimental, as well as an appreciable quantity of clay and other undesirable impurities.

It is mistaken economy to neglect this important phase of treatment on account of the expense of installing washers, for the price of sand, and often its use or rejection, is affected by the small percentage of impurity that may be washed away.

RUSSIAN GOLD FIELDS

Rank Fifth in the World's Production.

The Russian Empire, including Siberia, was fifth in rank in the world as a producer of gold in 1911. The output is \$24,865,000, which is, however, a decrease of more than \$10,000,000 compared with the figures for 1910. This decrease is due mainly to the shortage of water in 1911 in the placer workings in Siberia. The Russian production of gold has been generally increasing, and a vast placer-gold field undoubtedly awaits development in north Siberia, although this development may be long delayed.

The value of all the gold produced in the United States from 1792 to the end of 1911 is estimated at \$3,358,463,590; the value of the silver at \$1,629,972,000.

JUNIOR COMPETITION.

The competition for Assistant Business Manager of Technique has been opened to all students having entered with 1914, or being registered with this class. The ranking of candidates will be based on the amount of advertising turned in between November 1st and Christmas vacation.

All men interested in the competition will please see David L. Sutherland in the Technique office between 1.30 and 5.30 o'clock Monday or Friday. Information with regard to the work and sign-up contracts will be given there.

After he had outlined the principle of the cell he gave a very clear explanation of how his commercial cell works. Time after time he stopped in his explanation to tell how this or that difficulty had been overcome.

The eighty or ninety men who heard the talk received it with great enthusiasm, and expressed their appreciation after the talk by a sincere vote of thanks. Then the men had some light refreshments, and many spent an hour or two in the Union having a good time.

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Dancing Parties every Wednesday and Saturday evenings. Lundin Gymnasium, 44 St. Botolph street, Boston. Refined patronage. (Tues-Fri)

LOST—A leather covered loose leaf note book. \$1.00 reward. Walter Fowle, Cage. (39-2t)

FACULTY NOTICE.

Attention is called to the following extract from the Rules of the Faculty: "All marks of D incurred in the second term must be removed not later than the end of the following November. In case a mark of D is not removed at this time, the student shall be required to discontinue any dependent subjects which he is taking, and can obtain a clear record only by repeating the subject in which the D was given."

A. L. MERRILL,
 Secretary of the Faculty.

FACULTY NOTICE.

Candidates for Graduation.

October 28, 1912.
 Notes in regard to status with reference to graduation have been sent to fourth-year students. Any student who has not received a note should consult me if he expects to be a candidate for graduation in June, 1913.

A. L. MERRILL,
 Secretary of the Faculty.

NOMINATIONS for the Junior Prom Committee due at the Cage this evening at 10 o'clock. Each nomination must be signed by ten men of the Junior Class. (Friday)

LOST—Bank Book. Name, C. J. BENNETT. Finder please leave at 'Cage.'

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