

Seniors Vote to Decide on 1929 Endowment Plan

Mail Referendum Submitted to
Each Member of Class
for Opinion

PLAN SIMILAR TO 1927

Graduating Class Will Endow the
Institute to Amount
of \$75,000

Since 1923 it has been the custom of each graduating class to endow the Institute to the amount of \$75,000 by means of an insurance plan. A referendum will be submitted to the Class of 1929 within the next few days by which they will decide whether or not they wish to continue this custom.

William Baumrucker, Jr., is chairman of the committee that was appointed at the beginning of this year to select the best plan from the various ones submitted by insurance committees. He is assisted by Amasa G. Smith, Marshal S. Davis, Bernard B. Brockleman, Theodore J. Ewald, Herman P. Meissner, and C. Brigham Allen, ex-officio.

This committee has been reviewing various plans and interviewing representatives of different companies and has practically decided on a plan similar to that adopted by the Class of 1927. The plan adopted in that year gave benefits which will accrue to both the Institute and the individual, the Institute receiving 10% while the individual receives 90% the first 15 years and 100% thereafter.

Under this plan the Institute will receive from the insurance company the dividend accumulations of the policy which amount to approximately \$117 at the end of the 15th year. By continuing his contract the individual may receive from the insurance company approximately \$1000 at the age of 62, the total payments made being less than \$750, thus showing a profit of \$250.

Whether or not a plan similar to this will be adopted this year remains for the Seniors to decide. A mail referendum has been sent to each man by which he will notify the committee of his decision. A brief synopsis of the plan proposed has been included in each letter. The cards should be returned as promptly as possible to the chairman of the committee, William Baumrucker, Jr.

Students Gather In Pirate's Den

Corporation XV to be Addressed
by W. F. Wyman in Weird
Surroundings

Under the care of pirates for an evening Corporation XV plans to hold a dinner meeting on March 20 at the Pirates Galley on Milk Street. The speaker of the evening will be the sales manager of the Carter's Ink Company, Mr. Walter F. Wyman, who is a nationally known authority on merchandizing. He has just returned from a week at Hanover where he lectured to the students in Business Administration at Dartmouth.

Women dressed as pirates will prepare the food for the dinner. The threatening atmosphere of the skulls, bones, dim lights, and hidden treasures will surround the business engineers. The subject of the evening's talk will fit into the surroundings since Mr. Wyman will speak on "How to sell your ideas to the boss."

Corporation XV announces that the dinner is open to anyone who may wish to attend. A chicken dinner is to be served, the price of which is seventy-five cents to members and one dollar to non-members. In order to secure reservations for the dinner, all those who wish to attend are asked to sign-up in advance in Room 1-180. This is absolutely necessary if tickets are to be obtained, as otherwise it would be impossible for the committee in charge to know the number for whom preparations must be made.

Unknown Takes Tie-less Freshmen Seat Numbers

One of the prime jokes around the Institute this year has been the laxity of enforcing the freshman rules. Perhaps in this case though, he who laughs last will not be a fool for waiting so long. The Freshman Rules Committee is showing signs of rejuvenation if the activity in the freshman lecture periods is any indication. At practically every lecture during the past week, some mysterious person has been seen taking the seat numbers of those freshmen who did not have ties on. A word to the wise is sufficient as a stitch in time ought to save another one of the nine lives of most of the freshmen ties.

Coming Friday is Closing Date for Carnival Entries

Organizations Desiring Exhibits
Must Secure Approval
of Committee

Friday of this week is the last chance for late applications for displays to be presented to the committee for its approval. The booths will be of novel nature and most of them are already planned. The dormitories are lined up and some of the professional societies have their exhibits under construction.

Any fraternity or organization which desires an exhibit at the All-Technology Carnival and has not as yet planned its booths can refer to ideas which the committee in charge of the affair has on file. There are also two concerns in Boston where Carnival equipment may be obtained. The addresses of these firms will be given to any organization getting in touch with M. Richard Boyer, '29, chairman of the committee. Clubs and fraternities may secure the equipment needed for their Carnival Day display by arranging with the concerns for the rental of games and stands on a percentage basis.

If any students have ideas which are extremely unusual, they should communicate with the committee before Friday. Henry O. Patison, in charge of publicity, stated that the board is planning to have all the sawdust, all the noise, all the confusion, and all the smells of a real old-fashioned carnival.

Leader of South Hall Forum Will Speak Tomorrow

Clarence R. Skinner to Talk to
Liberal Club on "Science
and Religion"

DISCUSSION WILL BE HELD

Clarence R. Skinner professor of philosophy at Tufts College and leader of the Community Church, will be the next speaker before the Liberal Club at its meeting tomorrow afternoon in Room 10-250 at 4 o'clock. The subject of the discussion is "Science and Religion". A question and open forum period will follow the address.

Professor Skinner recently debated Professor Harry Elmer Barnes of Smith College on this question which is one of popular interest. The discussion on the influence of Science on Religion was greatly stimulated by Professor Barnes' paper last Christmas before the New York Convention of the American Association for the Advancement of Science. He stated that sin, morality and other present-day theological conceptions must be revised in the light of modern scientific discoveries. The day following the delivery of the paper and ever since, the church has continually challenged and attacked the views outlined by Professor Barnes.

As leader of the South Hall forum and minister of the Community Church, the only liberal non-sectarian church in Boston, Professor Skinner has had much experience in presenting controversial subjects. Following the talk tomorrow afternoon a discussion period will enable the student-body to hear their own views on Science and Religion. Members of the faculty as well as students are invited to the meeting.

COAST GUARD CHIEF TO SPEAK AT SMOKER

Captain Newman, Engineer in Chief, U. S. Coast Guard, will be the principal speaker at the Naval Architectural Society Smoker, which is being held at 7:30 this evening in Walker Memorial. His topic will be, "The Central Power Plant Goes to Sea," and Electrical and Turbine Men are invited.

Radio Amateur Sends Message to Coolidge

With work on the new transmitting station of the radio society still in progress some of the members of the organization are finding more time to operate their sending sets. Such a one is John N. Dyer, '31, who, when at his home at Haverhill recently, handled a message for ex-President Coolidge. The radiogram came from Fayetteville, Alabama with which contact was established at 10 o'clock Saturday evening, March 9. Although conditions were bad and the signals fading both ways, Dyer stuck to his job and finally succeeded in obtaining the entire communication and in forwarding it to Coolidge's home.

Professor Morris Speaker at Party of Faculty Club

Tells of Adventures Encountered
While on Expedition
to Mongolia

Ladies' Night was observed by the members of the Faculty Club at the Mid-Winter Party given in North Hall of Walker last evening. The dinner, which was served at 6:30 o'clock, was attended by about 100 guests.

Immediately following the dinner, an address on "Adventures in Mongolia With Roy Chapman Andrews" was given by Professor Frederick K. Morriss of the Geology Department, who accompanied Andrews as the geologist on one of his famous expeditions. Many interesting experiences were recounted by the Professor, who has made a special study of the natives of Mongolia. He has taken particular pains to become acquainted with some of their fantastic beliefs and their interesting mythology, and his address was exceedingly interesting to the audience.

At the conclusion of the talk, dancing was begun, lasting until midnight. Facilities for bridge were provided, and several of those present availed themselves of the opportunity to play. Refreshments were served during the intermission. Many of the members who attended gave it as their opinion that the Party was a complete success, being even better received than last year.

Walker Memorial, Planned In 1898 Not Completed Until Spring of 1916

Delay in Building was Occasioned
By Moving of Institute
To Cambridge

Of the Institute Buildings in Cambridge, perhaps the most interesting in a personal way is the Walker Memorial. In the chaos of 1916, when the new Institute was still in its infancy, plans were revived to construct a "Walker Memorial Gymnasium" for the recreation of the students, and activities were at once commenced.

First Planned in 1898

It was at an Alumni Meeting in 1898 that the first serious discussion of the subject took place. At the suggestion of a committee of three which had been appointed to look into the matter, a Walker Memorial Committee of nine was delegated to take charge of the proceedings. Professor Harry W. Tyler, '84, was elected chairman of this committee, and his work on the project was invaluable.

Before very long however, some of the planners of the new building decided that a mere gymnasium was not enough for the students, that they needed social facilities as well, and so it was at the Association Meeting in 1899 that it was suggested to broaden the scope of the proposition. The Corporation was approached and the Association was offered either 10,000 square feet of land on Trinity Place, or 48,000

square feet on Garrison Street, the condition imposed being that \$100,000 should be raised by July 1, 1901. Plans were tripping merrily along when it was suggested by the Corporation that the Institute might change its quarters in the course of the next decade. This, of course, necessitated an indefinite holdup in the plans, and it was not until 1916 that it was a gain seriously considered.

Plans Were Extended

In 1916, Professor Tyler presented to the Alumni Association a sketch of a suggested housing for the gymnasium and social rooms of the Institute, and stated that it was approved by the whole committee. Plans of four floors were examined, and the probable cost was fixed at well over \$500,000. In the plans, the building was essentially the same as it is today from the outside, except that it showed an entrance that curved outwards in a graceful arch. Since this arch represented an additional cost of about \$100,000, it was dropped from the original plan.

As to the interior, much more space was devoted to athletics than is at present used. The intention was that the gymnasium facilities should provide for the upperclassmen as well as the freshmen, and contain several dressing rooms for the other branches of sport such as track, baseball, and basketball.

Floor Diagrams Exhibited

In the architect's plans, there were 15,000 square feet of floor space devoted to gymnasiums, including facilities for the faculty in the basement

of 7000 feet. Bowling alleys were provided for in the basement also. The room extending to the second floor, first floor contained the large dining and a reading room and a lounging room as well as lunch rooms. The kitchen was to be in the basement.

On the second floor were a library, trophy room and a billiard room. The faculty room was in the rear of the second floor, but it was suggested that the billiard room did not need to be in the front, and something else might take its place.

The Gymnasium was on the third floor over the large dining hall, with two offices for THE TECH, two for the Technology Christian Association, and one each for the Athletic Association, Musical Clubs, Technique, Tech Monthly, and the Tech Show.

Construction Begun at Once

Before very long, construction was under way with characteristic despatch, and on one rainy day in early June, 1916, the exercise of laying the cornerstone were held. Among those present were Mrs. Francis Amasa Walker, widow of President Walker for whom the Memorial was named, and Dr. Francis Walker, his son. The Walkers have always kept in close touch with Institute affairs, and some of the family still reside in Brookline.

Such is the history of our recreation rooms, and few colleges can boast of such complete facilities. The building is supported in part by the Alumni and in part by the student dues, which are compulsory and are attached to the tuition fees of the Institute.

Sophomore Dance Will Be Held at Longwood Towers

Fountain Ballroom to be Scene
of Annual Ball Held
this Friday

TICKETS NOW ON SALE

Desk Will Be Maintained in Main
Lobby Until Afternoon
Before Dance

Tickets for the annual Sophomore Dance that will be held at Longwood Towers on Friday night are selling fairly rapidly according to statements of the ticket committee. The tickets were placed on sale Monday morning in the Main Lobby where a desk is to be maintained until 5 o'clock Friday afternoon, to provide tickets for those who have the admission price of \$2.

Previous to the sale in the Main Lobby, various free lances distributed the tickets among the fraternities and dormitories. A special offer is being made to encourage sales by students, as anyone who sells ten tickets will be given one free.

In securing the Fountain Room of Longwood Towers for the scene of their annual ball, the Sophomore Dance Committee obtained one of the most popular ballrooms in Boston. The room gets its name from the fountain that plays in the center of the dance floor, while surrounding the fountain are groups of palms and ferns. At either end of the room a hallway leads to two private lounging rooms.

In a third room that branches off from the center of the main ballroom, refreshments will be served at slight cost to the dancers. The Fountain Room is a new ballroom and should not be confused with the room in which the Musical Clubs held their concert-dance sometime ago.

Although the Committee has not definitely decided as yet, it is hoped that the illumination of the ballroom will be similar to that used at the Sophomore dance last year. Under this system, the lighting effects are furnished principally by spotlights situated in the balconies, creating the effect popularly known as "moonlight dancing."

Music for the occasion will be furnished by the Tunesters Orchestra which has played at numerous Technology social functions this year. In addition to their services as an orchestra, the Tunesters will furnish some specialty acts during intermissions. These acts will be new and specially arranged for this ball.

Pop Concert Will Be Held March 22

Walker Memorial Dining Hall is
Scene of Annual Musical
Clubs Event

Preparations are rapidly being completed and tickets are on sale for the annual Pop Concert of the Combined Musical Clubs to be held on Friday evening, March 22.

The affair this year is to be held in the main dining room of Walker Memorial. As usual, refreshments will be served during the evening, and dancing will follow the concert. Tickets, priced at \$1.50 for stag or couple, may be secured at the office of the Clubs on the third floor of Walker.

After this event, the Clubs turn their attention to preparations for the Annual Spring Concert, which will be held at the Hotel Statler on April 26. This concert is always one of the biggest events of the Spring season, and the management plans to make this affair better than ever before.

SENIORS TO ADDRESS MEETING OF A.I.E.E.

Two seniors, Charles A. Turner '29 and Malcolm B. Hibbard '29, will address the next meeting of the M. I. T. branch of the American Institute of Electrical Engineers which will be held in Room 10-275 at 3 o'clock on Friday, March 22. Turner will speak on "An Outline of the Development of Electric Lighting" and Hibbard will talk on "Lighting in Industry." Everyone is welcome to attend the meeting.

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WILL "VOO DOO" STAY

TODAY there is published in the "Open Forum" column on this page another communication on the same subject as that printed in the Monday issue. The last number of "Voo Doo" has caused a stir, evidently, which is not limited merely to loud talk and little action.

The import, in part, of these contributions is that the comic paper should be completely exonerated from any guilt—that its "Back Bay Number" was not to be criticized severely. While student opinion on this subject may differ, it seems to many that the matter is too grave to pass without some reprimand.

As to some of the other statements in the "Open Forum" letter published on Monday, we feel that the writer was "barking up the wrong tree", as it were. In selecting Lawrence C. Hamlin '29 to head its committee of investigation, the Institute Committee could not have chosen more wisely. From his experience on THE TECH, this man is eminently well fitted to seek out the underlying issues, financial matters, lack of circulation, indifferent support, which the "Voo Doo" staff give as their reasons for the publication of this number.

So far as trying to "railroad" this activity from the Institute, which seems to be a misapprehension under which a considerable group of students is laboring, nothing is more remote from the policy of THE TECH. We even went so far as to advocate a lenient course of action as soon as it became evident that the Institute Committee were considering the matter.

Tomorrow the Institute Committee meets to give judgment on the fate of the humorous magazine. Their course so far has been wholly broad-minded. From an unbiased standpoint they have considered the whole affair. They have appointed a committee of investigation, to collect all available material, pro and con. It is a big matter which they will decide, not so much for the present as for the future. It is necessary that their actions tomorrow be maintained in the same unprejudiced manner which has characterized their work thus far.

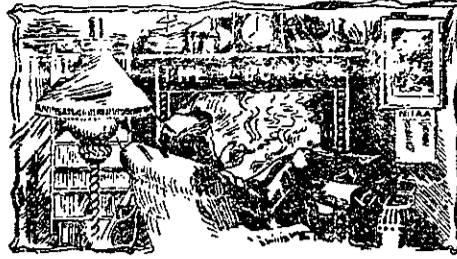
CHANCE TO RETALIATE

IN the course of the four years that are spent at the Institute, often we wish that we could be given the privilege of expressing our views on the way the courses are presented, the methods of the instructors, and the purpose of it all. Technology students are more fortunate than most in that respect, but sometimes it would help immeasurably if we might give an unrestrained criticism, throwing all discretion to the winds.

Such an opportunity has recently been given to the seniors in all the colleges of the country by the announcement by "The American Mercury" of an essay contest for this year's graduates, in which they are to express their exact opinions of their undergraduate life, both from a social and an educational point-of-view. The essays are not due until the first of July, so no fear need be incurred that the degrees will be held up on account of unfaithfulness to the school.

It is not often that such a chance is offered, both to express one's own views and to help other students to see the college from the colder light that is left after the first glow of enthusiasm has waned. That the man who has seen the years slowly pass and has observed the reactions of the students to the courses can give a better account of the school's true value even than the instructors or the supervisors, is a fact that cannot be disputed, for the student sees variety, not the sameness of one class. It should therefore be considered to be a duty by those who can express their thoughts clearly to give out their knowledge on the subject in the hope that someone will benefit by it, and possibly the present school system will be revised in favor of something more practical and useful.

But the benefit to the other students is not the only consideration which should prompt one to write on the subject. Our colleges are supported by the people who pay taxes more than by tuition. Is it fair to these people to conceal from them the results of what is learned? Certainly some idea of the effect of college life should be given them other than that which is fed to them by the current magazine articles and "College Humor" stories.



Eating at Walker is not one of the Lounger's long suits. In fact, thank God, he is forced to do so only at infrequent intervals. He has eaten good food there, and bad—perhaps he remembers the bad more vividly.

At any rate, hereafter he will starve, or eat a bar, or even go to Walton's. For how he does love his clam chowder. Nothing is better than the good old New England dish, a big steaming bowl of it. That is, when it is well made. But, when the clams were evidently dug from the Charles River basin, and the milk was fresh last week—that is enough to turn the stomach of stronger men than the Lounger.

He could have ignored that nauseating stuff, had it not been followed by a side dish of spaghetti which was worse. It might have been made in the back yard in the Ghetto, mixed with a little rotten tomato sauce, and kept in a tin wash-basin for a week.

Perhaps there is palatable food offered in the dining room at Walker—but these bilious concoctions come too often.

An insidious rumor is making the rounds these days, seeking to discredit a member of our own faculty. Not content with abusing Shakespeare, Washington, and others of the departed great, vile tongues have gone to work on the living, for the story is that Sandman is not co-author with Fuller of "Applied Mechanics." Quick to resent any such aspersions, the Lounger demanded proof from the tale-bearer. The latter replied that there was proof enough in the fact that Sandman had recently been forced to stop and scratch his head before he could find his way out of the mazes of a problem from Fuller and Johnson, whereat the class awoke as one man and eyed him with evident suspicion. Another cherished illusion shattered!

The Lounger hears that certain of these Course XV Seniors are pretty adept at shooting paper-wads. For further information put on a tin shirt and drop around to 6:43 lecture some day when they're showing lantern slides.

In trembling hopes of being booted out of school along with the Voo Doo board, the Lounger licks his lips and passes this one along to his readers, gloating in the fact that Voo Doo overlooked a sure circulation-builder, for once. It seems that an innocent Techster had a date with a girl from the Franklin Square House (ask any of the boys in the Musical Clubs) and he was surprised and indignant when she told him that somebody was in the habit of putting saltpetre in their coffee. He even advised her to change her residence! The T.C.A. should be informed of this—a man's education shouldn't be neglected until such a late age.

American Mercury Magazine Offers Two \$500 Prizes

Awards Go to Graduates of 1929 Writing Best Articles on College Life

Two prizes, each of five hundred dollars, are offered by the American Mercury magazine, for articles by college graduates of this year discussing their experiences in college. One will go to the best article received from a male student, and the other to the best received from a woman student. The conditions are:

1. No article should be less than 3000 words long, or more than 8000.
2. Each must be the original work of a student graduating from an American college with the class of 1929 and taking the A.B. or its equivalent.
3. Each must bear the full name and address of the author, the name of the college attended, and a statement of the course followed and the degree to be taken.
4. Each must be accompanied by a stamped and addressed envelope for its return in case it is not accepted.
5. The editor of the American Mercury will be the sole judge of the competition.

By July the first all the manuscript is required to be in the office of the American Mercury and the two prize-winners will be printed in the issue of the American Mercury for September.

The editor of the American Mercury declares that the aim of the competition is to obtain records of personal (Continued on Page 4)

THE OPEN FORUM

Although my opinion will probably have little effect on the results of coming report of the Voo Doo investigation committee to the Institute Committee, I would like to present my views through your columns on the matter of the recent Back Bay issue and perhaps discover whether or not other Technology men agree with myself and several of my friends on this subject.

In the first place, I acknowledge the fact that Voo Doo printed several "jokes" and poems which were of the poorest taste, to express it mildly; though the contents considered as a whole seemed to me far from salacious. It seems to me that much of the adverse criticism is a result of the preceding publicity campaign, including the "censored" cover, for since such emphasis was placed upon the lewdness of the coming issue it is but natural that many readers would find a dirty meaning in most of the material printed, whether that meaning were intended or not. The occasional specimens of prostitute humor merely speeded up this reaction. It is a matter of doubt in my mind whether the magazine itself or its dirt-seeking critics are to be censured.

It is a common belief that a publication should be judged by its general character and not by a few isolated abstracts. On this as one basis I plead that Voo Doo be allowed to continue publication, for as a whole this magazine stands in character at least equal to the average college comic, and is considerably superior to many.

Furthermore, it does not seem reasonable to me that this publication be condemned forever because of one single issue, especially since a very similar type of issue was allowed to pass unmarked two years ago. The average number of Voo Doo is commonly recognized as being singularly free from the taint of salacity, and I see no reason why this could not be expected to continue. Surely the recent flood of criticism will have convinced the Voo Doo management that further material such as is found in perhaps four or five places in the disputed Back Bay number is highly undesirable; and surely, even if only for the continuance of this activity, they will have the wisdom to keep succeeding issues of a more normal character.

For the eleven years of its existence Voo Doo has been rated as one of the foremost college comics of the East. Is Technology to be deprived of this outstanding activity because of one misstep which a few consider serious? Even assuming that the character of this disputed number brings the Institute into bad repute, the far greater publicity which would surely follow the abolition of this magazine would cause many to wonder why, if it is so objectionable, it has been allowed to continue for as long as it has; or more likely America will be wondering as to what sense of justice, if any, Technology men possess, to do away with this activity the first time an issue is published which contains a very small minority of objectionable material.

Again, let us see what actual good would be accomplished if Voo Doo were permanently discarded. Firstly, it would definitely preclude the possibility of the Institute lending its

name to a disreputable humorous publication—that is, until such a magazine were again organized at some time in the future.

However, in the present instance the damage, if any, has already been done, and in my opinion little if anything would be accomplished toward remedying this by the contemplated drastic action on the part of the Institute Committee. This would seem to be a case where construction would be infinitely more beneficial than a tearing down. Even some necessarily obnoxious system of supervisory censorship to ensure future purity would be preferable to complete abolition as a fruitless penalty for past laxity. Voo Doo fills an important niche in our extra-curricular activities, and the loss would surely be felt, and seriously.

Summing it up, then, the recent Back Bay issue of Voo Doo was undoubtedly salacious in part, albeit in very small part. Even so, some criticism was certainly merited. However, I believe that stopping the publication of this comic is by no means in order, for it could by no possible means eradicate what harm may already have been done, and it would do Technology no good to have it known that one of our major activities has been suspended without further trial because of one doubtful offense. I believe that either by some form of supervision, or preferably by reliance on the common sense of the Voo Doo board, the repetition of such an occurrence could be prevented in the future.

For these reasons I maintain that Voo Doo should be allowed to continue as an Institute activity, provided that the normal standard of material be adhered to.

Respectfully yours,
 M.I.T.—II—'30.

For the first time in the history of Stanford University a student shot academic par throughout his scholastic career.

Arthur A. Scrotten has graduated with a straight A grade in every one of the 180 units required for a diploma. Scrotten made the varsity Fencing team and was a member of Phi Beta Kappa. His home is in Pasadena.

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ENGINEERS SEEK GYM TITLE

Varsity Gymnasts Enter Meet With Navy on Saturday

Championship Depends on Win in Most Important Meet of the Season

TEAM LEAVES THURSDAY

Chances in Intercollegiates Are Good—Princeton Victory Would Cause Tie

Tomorrow afternoon the gym team will leave Boston to participate in what promises to be their most important meet of the year. They are to meet Navy at Annapolis on Saturday afternoon. The team will go down tomorrow afternoon instead of on Friday, as would be expected, in order to get a complete rest before the meet commences.

Navy has won all of its meets this year and at present heads the Eastern Intercollegiate league. Princeton and M.I.T. are tied for second place, each team having lost one game. On Saturday, while the Engineer team is facing the Navy, Dartmouth will be playing Princeton. This means that, if the Engineers defeat Navy and Dartmouth defeats Princeton, the Institute team will have won the Gymnastic League Cup. If, however, Princeton wins from Dartmouth, a triple tie between Navy, Princeton, and M.I.T. will result. In such a case it is probable that the superior team will be determined by the results of the Intercollegiate meet to be held the following Saturday at Penn State.

Intercollegiate Chances Good

In the event of the League Championship being determined by the results of the Intercollegiate meet, the Engineer team stands a good chance of being at the top. First places are what will count in that meet and the Institute Gymnasts have enough first place men virtually to cinch the meet. During the season that is drawing to a close the weakest place in the team has been the inability to win second place points.

Last week the Navy trimmed Dartmouth by the same score that the Technology men did. This is about the only standard of comparison existing between the two teams. The Engineers have improved slightly since they met Dartmouth two weeks ago and should thus have a theoretical advantage over the Midshipmen. Nothing can, however, be really prophesied as to the final outcome of the contest, but the Engineers are leaving with high hopes of bringing home the bacon.

Rifle Team Wins Corps Area Title

Engineers Clinch First Place in New England Match by Large Score

Another victory has been added to Technology's laurels by the R. O. T. C. rifle team. According to word just received from Headquarters of the First Corps Area, the Institute team is winner of the New England Intercollegiate R. O. T. C. matches.

The placing of first and second teams was not close, M.I.T. leading the runner-up by 155 points, while Norwich beat the University of Vermont for second place by only three points. The Institute team scored 7423 points, Norwich 7268, and Vermont 7265. Other New England colleges finished in the following order: University of Maine, Connecticut Agricultural College, Massachusetts Agricultural College, and Boston University.

Ten men shot on each team, those who represented Technology being here listed with their scores:

Elliot, 757; Twarogowski, 753; Clark, 749; Loomis, 742; Clifford, 738; Hamilton, 735; Orleman, 733; Kohler, 729; Tibbets, 729; Gawlewicz, 726.

Both wrestling teams have ended their seasons, and will now start a hard program in practice in preparation for the Intercollegiates. On the Varsity, Der Marderosian is the most outstanding contestant for Intercollegiate honors, with Stone at his heels. The yearlings have outstanding men in Axford, Captain Vassolotti, and Ward, which look very promising for berths in the yearlings' Intercollegiates, which will be held this year for the first time.

Hockey Team Elects New Varsity Leader

William E. Cullinan '30 was elected captain of the 1929-1930 Varsity hockey team yesterday. Cullinan played hockey at Cambridge Latin School before entering M. I. T. During his first year at the Institute he played freshman football on the Field Day team, and held a position on the freshman hockey sextet. Next year will be his third as regular right wing on the Varsity.

The new captain is a right hand player and was the leading scorer on the squad during the past season. In the Bowdoin game he made the one and only goal, which was enough to win for M. I. T. He is an aggressive player and a good leader for the team. He hopes to have a good season and sees the beginnings of a new era in hockey at the Institute.

Wrestlers Enter Intercollegiates Held at Harvard

DerMarderosian and Stone Hope to Win in Finals to be Held Saturday

FRESHMEN EXPECT A WIN

Having wrestled their last dual meet this season, the Varsity and freshman teams are preparing for the climax of the season, the annual Intercollegiate to be held in the Harvard Gymnasium on Friday and Saturday nights.

After losing every meet this year, the Varsity stands little chance of winning the Intercollegiate. Probably the only threats on the team are Captain DerMarderosian, and Stone, each of whom have lost just one match this year. Captain DerMarderosian lost his Springfield match, but had a very sore knee at the time of the match, and was handicapped thereby. He is a very conservative wrestler, and has won all of his matches by time advantages. This careful style may do much toward his winning the 145 pound championship. Stone, who has had three years of Varsity experience, is one of the best 175 pounders in New England. He is clever, and probably knows more holds than any man on the team, which should help him to place in the finals on Saturday night.

Freshmen Expect Victory

Practicing diligently every night, the twice-defeated yearling squad is also preparing for the freshman Intercollegiate, held for the first time this year. With only a few weak spots, the freshmen are slight favorites to win in several classes. Axford, who is still undefeated in the 115 pound class, expects a victory, and is in wonderful shape for the coming matches. Captain Vassolotti, the 145 pounder who has met defeat but once, is probably the best bet on the yearling squad, and although he was defeated by the B. U. Varsity wrestler, he has won all of his other matches by large advantages, making him one of the outstanding favorites.

Ward Has Good Record

Ward, the 135 pounder, has also won all of his matches, and is expected to place for the Engineers. He has thrown all but one of his opponents, and is in fine condition for the last meet of the season. Rabinowitz, the weighty unlimited yearling, has also won a large percentage of his matches, and hopes to place in the coming meet. He has a large weight advantage over other freshmen in the Intercollegiate competition, but lacks the careful style which makes the outcome of matches certain.

Negus, the 155 pounder, has shown lots of improvement, but will have a hard time placing. He showed up exceptionally well in his last meet, winning by a fall, but has lost a large number of the matches during the season.

In the close race for the Intercollegiate Championship team, the Cardinal and Gray gymnasts are very close to the top, and with such stars as Reynolds, Wells, Dolloff, and Captain Fairchild, the gym team should end the season favorites to win the Eastern Intercollegiate. Their strongest opponents are the Navy gymnasts, who have won Championships for several years in succession. Princeton also will form a big obstacle in the way of the Engineers, but the team feels confident of finish among the first.

Reserve Officers Give Medals for Best Rifle Shots

Varsity Rifle Team Has Strong Chance to Win Sectional Title This Year

FRESHMEN ARE ORGANIZED

Recently the M.I.T. Chapter of the Reserve Officers Association voted to donate six medals to the best shots on the Varsity and freshmen Rifle Teams. The high men on each team will receive gold medals, the second and third best shots will be awarded silver and bronze medals.

This year's Varsity is the best team assembled for some time, according to their coach, Lieutenant A. T. W. Moore, and stands more than an even chance to win the New England Intercollegiate title again. So far, the only team which seriously threatens this chance, is Norwich University. No doubt there will be keen competition for the New England trophy.

Good Record For R.O.T.C.

At any rate, the recent showing of the Institute R. O. T. C. team in winning the First Corps Area Intercollegiate matches, is indicative of the brand of marksmanship being exhibited at the present time, and inasmuch as the R. O. T. C. team and the Varsity are practically one and the same as far as the personnel is concerned, great things can be ex-

Institute Record is Smashed by Baltzer

In a special one and a half mile race held yesterday afternoon on the board track, Richard K. Baltzer '31 broke the Institute record of 6:07 1/5, formerly held by L. S. Thorsen '30, by 9' 4/5 seconds. This is a year of record-breaking events, it would seem, as the regular season has finished. The race was put on as a sort of "race to break the record." Baltzer and Thorsen have been keen rivals throughout the year and for this event the honor goes to the former.

pected in the near future. It might be well to say that M.I.T. led Norwich, the runner up, by more than 150 points in winning this latest match.

Under a new policy, inaugurated this year by Major Eddy of the Military Science Department, the freshman rifle team is organized from the best shots of the freshman class. Members of this team were selected after inter-company matches in which all freshmen participated. Under the watchful eyes of Captain Kellogg, their coach, the yearlings have developed into a high scoring group. Theretofore there has been nothing especially to encourage the youngsters to develop their eagle eyes and clever fingers. It is felt that the medals just announced will furnish the necessary enticement. The action of the Reserve Officers

Two Relay Teams Will Enter Meet at Penn

Technology will be represented this year at the annual Penn Relays in Philadelphia. Last year the team was unable to compete, due to the fact that a meet with the University of Maine was scheduled for the same day. This year the meet is to be held on April 26th and 27th.

Seven men are to be picked to represent the Institute this year in two different events. The events are the Medley relay and the one mile Class "B" Championships. No names have been definitely placed on the list yet and probably will not be until Varsity practice is in full swing again.

Association here, composed of about fifty faculty members holding Reserve Commissions, most of whom saw service over seas, is certainly to be commended. It is not only a proper recognition of Technology's championship team, but it will prove a great stimulus to the Institute's marksmen.

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NOTICES and ANNOUNCEMENTS

Of General Interest

Aldred Lecture **Dr. E. Degolyer**
 Friday, March 15, 3 P.M., Room 10-250

Dr. E. Degolyer, former president of the American Institute of Mining and Metallurgical Engineers, will be the speaker for the fourth lecture in the Aldred Series. The subject of the lecture will be "Our Mineral Virtues."

The lecture is open to seniors, graduates and members of the instructing staff.

Quantum Mechanics **Prof. W. Heisenberg**
 Friday, March 15, 4 P.M., Room 4-231

Professor W. Heisenberg, Director of the Institute of Theoretical Physics of the University of Leipzig, will deliver nine lectures on "Recent Developments in Quantum Mechanics." The first lecture will be on the subject "The Principle of Indetermination."

The lecture is open to students and members of instructing staff.

Calendar

Thursday, March 14

- 5:00—Glee Club Rehearsal, Room 10-250.
- 5:00—Banjo Club Meeting, East Lounge, Walker.
- 5:00—Institute Committee Meeting, North Hall, Walker.
- 8:00-10:00—Basketball Tournament, Hangar Gym.
- 6:30—M.I.T.A.A. Banquet, Hotel Westminster.
- 8:30—Research Laboratory of Applied Chemistry Dance, North Hall, Walker.

Friday, March 15

- 3:00—Aldred Lecture by Dr. E. L. DeGolyer on "Our Mineral Virtues", Room 10-250.
- 3:00—A. I. E. E. Meeting, Room 10-275.
- 3:00-10:00—Tech Basketball Tournament, Hangar Gym.
- 4:00—First of Series of Lectures by Professor Werner Heisenberg on "Recent Developments in Quantum Mechanics", Room 4-231.
- 7:00—New England Intercollegiate Swimming Trials, University Club.
- 8:30—Armenian Club Costume Dance, North Hall, Walker.
- 9:00—Sophomore Dance, Longwood Towers.

Saturday, March 16

- 2:00—New England Intercollegiate Swimming Finals at University Club.
- 3:00-10:00—Basketball Tournament, Hangar Gym.
- 3:30—Boxing Meet, Varsity vs. Dartmouth, Hangar Gym.
- Gym Meet, Varsity vs. Navy at Annapolis.
- Fencing Semi-Finals at New Haven.

Sunday, March 17

- 2:00—Chinese Student Meeting, North Hall, Walker.

Monday, March 18

- 5:00—M. I. T. A. A. Meeting, Committee Room, Walker.

Undergraduate

NOTICE

There are still a number of vacancies in the sports department of THE TECH. Here is a great opportunity for a number of wide-awake men to get something that will be interesting and beneficial. Men who are substituting some sport for P. T. will find a great deal of enjoyment in covering the sport in which their interest lies. THE TECH tries to cooperate with men as much as possible in this respect. It develops a closer contact with the athletic side of Technology life, while at the same time it enables one to do something worthwhile in the interest of sports, and ultimately of the school in general. In order to do justice to all the athletic activities about the Institute THE TECH must have the cooperation of the live men who must exist somewhere among the student body. Come on, freshmen and Sophomores, show that you are alive, and THE TECH will help you to bring out the best you have in you.

SCHOLARSHIPS

The attention of students who anticipate continuing graduate work next year in Europe is called to the notice posted in the Information Office regarding the date on which applications for scholarships for study in various foreign universities and technical schools should be filed with the Institute of International Education, 2 West 45 Street, New York City. Further information regarding these scholarships may be obtained by consulting the Dean of Graduate Students, Room 4-112.

TECHNIQUE PICTURES

Managers of teams, and Presidents of fraternities, clubs, and societies are asked to call at the Technique Office to secure proofs of group pictures for the purpose of taking orders for these pictures.

LACROSSE

Will all interested in this sport please see Olmstead '29, or Kocher '30, Telephone Back Bay 4004.

Heads Research Work In X-ray Laboratory



Professor John T. Norton

Heisenberg Talks To Start Friday

World-Famous Physicist Will Give Lecture-Series at Institute

Professor Werner Heisenberg, one of the outstanding physicists of the world today, will commence a series of nine lectures on "Recent Developments in Quantum Mechanics" on Friday of this week.

Professor Heisenberg, who is at present Director of the Institute of Theoretical Physics at the University of Leipzig, is the inventor of quantum mechanics. In 1926 he discovered the principle of Indetermination, which is to be the subject of the first lecture.

This series of lectures, one of which will be given each Monday, Wednesday, and Friday at 4 o'clock in Room 4-231, is in a sense a continuation of a series given at the Institute by Professor Born during the winter of 1925-1926, and will cover the most recent developments in the field of quantum mechanics. Among the lectures will be one on the recently discovered theory of Ferro-Magnetism, and another on Metallic Conduction. The lecture series is open to all who care to attend.

M. I. T. A. A. HOLDS BANQUET TOMORROW

At the Executive Committee meeting of the M. I. T. A. A. held Monday night, a short discussion was held on the banquet and final arrangements were completed. The banquet will be held in the Hotel Westminster at 6:30 o'clock tomorrow.

At the same meeting the request of the Polo Team was discussed. The Polo Team had inquired as to the possibility of securing recognition next year as they wished to arrange part of their schedule. The Executive Committee decided that no definite decision could be given now and that any matches might be accepted but only with the risk of possible cancellation.

AMERICAN MERCURY OFFERS BIG PRIZES

(Continued from Page 2)

experiences, based on the following questions. How do the four years in college strike an intelligent young man or woman, immediately after they are over? Does the time seem to have been well spent? How much was learned? What was gained by way of social contacts, activities and so on? How many of the instructors encountered seemed to have anything genuinely valuable to impart? Was life in general, pleasant or not? Is there any feeling at the end that equipment has been improved? Does college arouse a desire for further learning or do four years seem enough.

The contestants are expected to name their colleges, and to name any interesting or competent instructors who have impressed them. The substance of the manuscripts will be judged from the standpoint of their honesty, their intelligence, their freshness of viewpoint, and their interest as human documents.

Extensive X-Ray Research Includes Applications For Testing Materials

Professor Norton Tells of the Atomic Study of Liquids and Crystals

By Professor John T. Norton

X-ray research, which is being carried on in the Department of Physics at Technology, includes many branches of pure and applied science. Naturally, students of physics are much interested in the nature and properties of this important type of radiation, and an investigation of the rays which are very similar to ordinary visible light, forms a considerable portion of the work of the laboratory.

The reaction of the x radiation with matter of various sorts yields much information about the nature of atoms and the ways in which atoms are put together. A particularly interesting field is x-ray crystallography which has almost come to be a science in itself. In this field, x-rays are used to study the way atoms are arranged in solid substances and the dependence of physical and chemical properties upon this arrangement. At the present time an important series of the silicates is under investigation. By choosing a series of compounds with similar properties, the structure determination is much simplified and the significance of results is more directly recognizable. The diffraction of x-rays by liquid is another important and promising field of study which is being investigated. The information desired concerns the size and shape of the molecules of a liquid.

A very important branch of science in which x-rays have shown great usefulness during the last few years is the science of metallurgy. Practically all metals are crystalline and x-rays afford an excellent means of studying them. The various physical properties which pure metals and

alloys exhibit, depend upon such fundamental properties as atomic arrangement, grain size and upon grain orientation in many cases. In the laboratory, studies of alloys, of the allotropic transformations of electro-deposited metals and of the deformations of metals, are taking place. It will be appreciated that these studies, in addition to their academic interest, have a wide practical application to the metal industry.

Still another application of x-rays is to the study of the gross interior structure of opaque objects. This is known as radiography. A particular example of this work, which has been carried on in the laboratory for the past few months, is the examination of cast steel pipe fittings for a new high pressure steam power plant. The castings are examined for defects such as shrinkage cracks and inclusions of gas or sand. Although the cost of this examination is considerable, it is small compared with the cost of replacement after the equipment has been put in service.

As the result of examination of a large number of castings from different sources, much information has been obtained about casting methods. Technology is fortunate in having one of the few laboratories in the country where radiography of heavy castings can be done.

Another important use of radiography is in the study of welding. A quite extensive program is being carried out in this field, not only to develop a method of testing welds without destroying them but also to make a detailed study of welding methods as regards the properties of the weld.

This very brief outline illustrates the widespread use of x-rays as an important part of scientific research.

DR. E. L. De GOLYER IS ALDRED LECTURER

"Our Mineral Virtues" Subject of Address Friday

Dr. E. L. De Golyer, former president of the American Institute of Mining and Metallurgy Engineers, will be the speaker at the fourth Aldred Lecture to be given this year. The address will be given in Room 10-250 at three o'clock on Friday and will be open to Seniors, graduate students, and members of the instructing staff.

The subject of the address will be "Our Mineral Virtues." Dr. De Golyer will give a broad discussion of the position of artificial power in national economy. He will tell of some of the things that have to be done by the engineers of today to secure a continuance of a powerful civilization.

JOSEPH LEVIS '26 FENCING CHAMPION

Graduate of Institute Defeats Nicholas Murray in Duel

Joseph Levis '26, who was Intercollegiate Fencing Champion, his Senior year at the Institute, won the three weapons National Fencing Championship, last Friday night in New York, by defeating Nicholas Murray 14 to 13. The weapons used were the foil, sabre, and epee. In 1926 Levis represented the United States in the Olympic games. He was the first American to reach the finals in these games.

SIGMA NU WINS IN BASKETBALL CONTEST

Owing to their superior ability in sinking short shots and getting the ball under their opponents' basket the basketball team of Sigma Nu succeeded in defeating Phi Gamma Delta 18 to 12. The score at the end of the half was Phi Gamma Delta 5, and Sigma Nu 11, but undismayed Phi Gamma Delta fought on and the game was marked by many excellent plays.

Superior shooting ability decided the victory. Although the doughty warriors of Phi Gamma Delta brought the ball time and time again under Sigma Nu's basket, they lacked the final push necessary to score.

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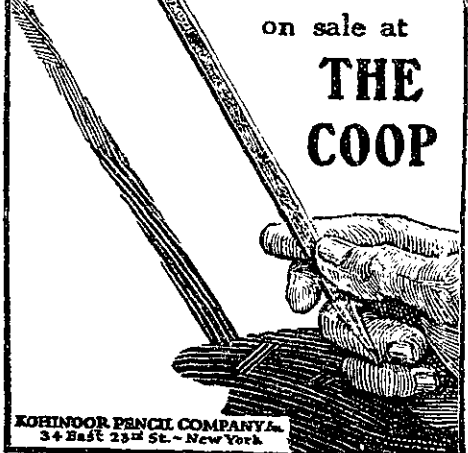
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