

MILE RELAY TEAM TO ENTER M. A. A. GAMES

Technology Will Send Fast Team to Compete in Inter-Collegiate Relay-Spitz, Bardes, Bawden and Rollins to Run.

TEAM CONFIDENT OF VICTORY

Technology will send a mile relay team down to New York next Tuesday to compete in the Millrose Athletic Association games in Madison Square Garden. The team will be composed of four men who will enter the Mile Inter-collegiate Relay. The other colleges in the same race are Princeton, Yale, Pennsylvania, Cornell and Dartmouth. All of these colleges have very strong teams and Technology will have to put up a strong defense in order to beat them. Coach Kanaly stated last night that Technology has the best one mile relay team this year in its entire history, and that the chances were on our side to win the race, which is the biggest event of the evening at the games. The four men picked for the team at time trials this week are Spitz '21, Bardes '21, Bawden '21, and Rollins '20. Bawden and Rollins have already broken all of Technology's previous records on the board track for the 390 yards run. Bawden placed second in the Army and Navy meet last Saturday in the 1000 yards run, and Rollins won both the service and the open 60 yards dashes.

On March 1 Technology will meet Dartmouth in a mile relay race at the B. A. A. games in the Mechanics building. The Institute freshmen will run a triangular race with the Dartmouth freshmen and the Holy Cross freshmen. It is desired by the management that as many men as possible be on hand at the games in order that a cheering section can be formed. Manager Anderson reserved a large number of seats for Technology students for the games and these will be on sale in the Main Lobby from 12-2 P. M. every day next week. It will be impossible for men to get their tickets on the outside unless they are members of the Boston Athletic Association. The demand for tickets from the Association members this year has been so great that they will not be on sale to the public.

Plans have not yet been completed for entering teams for the Meadowbrook meet in Philadelphia, Pa. This meet which is open to all colleges attracts considerable attention each year and in all probability Technology will be strongly represented. Another meet of interest is the Freshman-Sophomore Indoor. Due to necessity of cancelling the Freshman meet with Worcester Academy, the date of the former has been offered to them and Manager Anderson is still awaiting a reply before making any definite announcement.

ORCHESTRA TO REHEARSE

The management of the Technology Orchestra wishes to announce that all men in the orchestra, or who intend to come out in order to make Tech Show should report at the rehearsal this afternoon at 5 in the Walker Memorial. There seems to be a little misunderstanding among the student body in regard to the qualifications for the Show. Consequently, the management wants everything clear so that no difficulties will arise later.

At the meeting, the manager wishes to have all the men present who have intentions of making this part of the Show, for it is to be the men who are coming out regularly, that will be picked. He wishes to state positively that no man will get a chance who comes around late.

WATCH FOR THE VOODOO

The Voodoo will appear for the first time by the middle of the week. It is going to be a big success, and the price will be only fifteen cents a copy. Watch the yellow posters on the bulletin boards for developments, and be sure you get a copy early before they are all sold.

THE TECH BANQUET TO BE GIVEN IN WALKER FRIDAY

Next Friday evening THE TECH will give one of its old-time banquets, which is to be held in the Walker Memorial at six-thirty. A hearty invitation to attend is extended to all men who have served on its various boards. The men who are now working on THE TECH are anxious to renew and make new friendships with the men who have worked in its various boards at these times and have given their services to Technology, and this invitation is extended with the hope that many will give us this pleasure.

SIGN-UPS FOR SPRING CONCERT ARE BEING SOLD

Concert Will Be Short To Give Plenty Of Time For Dancing

Sign-ups for the Spring Concert to be given by the Musical clubs on the evening of Friday, March 8, at the Hotel Somerset, have been on sale since this Wednesday. They will continue to be sold until Wednesday, Feb. 26, every day in the main lobby between 1 and 2, and also at the office of the Musical clubs in Walker Memorial. The clubs have had a comparatively short time in which to get ready for the concert, but owing to the number of good men that have come out, the management expects to give a better concert than ever.

The Spring Concert has been given at the Somerset for the last two years on account of its convenient locality and handsome ballroom. Because of the limited capacity of the ballroom, the maximum number of couples has been set at two hundred, so that it would be advisable for anyone who intends to go to get his sign-up early. The sign-ups cost 75 cents, while the ticket price is \$2.50 a person, and \$5.00 a couple. This is thought to be excessive by a number of people, but the expense to which the Musical clubs are put in running the concerts must be considered. Preliminary dance orders will be given out at the end of the sign-up campaign. Sign-ups may be redeemed during the week beginning March 2nd.

Some of the fraternities are planning to have a dinner before the concert, and a house party that evening. Fraternity reservations will be made as usual, and the time for application for these reservations will appear later in THE TECH.

TECHNIQUE ELECTORAL COMMITTEE ELECTIONS POSTPONED

The elections for the Electoral Committee for Technique 1921 which were to have been held this week has been postponed. The new time set is March 3rd, on which date all ballots must be turned in at the Information Office before 5 p. m.

"TAKE ME BACK TO TECH"

Alumni Banquet to be Given in Walker Memorial March 1.

The annual dinner of the Alumni association of Technology will be held in Walker Memorial on Saturday evening, March 1, at 7. Applications for tickets, two dollars each, should be addressed to the Alumni Association of the Institute. Among those who will speak are his excellency, Calvin Coolidge, Governor of Massachusetts, President Richard C. Maclaurin, Walter Gordon Merritt, and Van Rensselaer Lansingh '98.

The Walker Memorial will be open in the afternoon, and meeting places will be planned for the classes. The bowling alley, shooting gallery and billiard tables will be available for the alumni in the afternoon and at five, a band concert will be given in the gymnasium.

SAXOPHONE SEXTET

A saxophone sextet is being organized by the Musical Clubs. A number will be put on at the Spring Concert and all concerts thereafter. Those interested should report at the office of the Musical Clubs in Walker on Monday or Tuesday from 1 to 2. Saxophones furnished.

APRIL 18 IS DATE SET FOR FIELD DAY

Push Ball Will Be Substituted For Football—Crew Race to Count In Final Score—Practice for Teams Will Start Soon.

HALF HOLIDAY TO BE GIVEN

The old time Field Day will again be held this year. The date April 18th was settled upon at the meeting of the M. I. T. A. A. last Tuesday night. Push ball will be substituted in place of the foot-ball game and plenty of excitement will be guaranteed in the first named event. After the Field Day events, Tech night will be celebrated at one of the Boston theatres where the whole theatre will be reserved for Technology men and their friends. The show has not been picked yet. There will be no school on the afternoon of Field Day.

A call will be made in a few days for men to try out for their respective teams. Practice will then start for the tug-of-war and for push ball teams. The latter is a new game to most of the students, so a good deal of practice will be necessary. The freshmen already have a large number of men out for crew and it is urged that the Sophomores try out for their class crew. So far there have not been many Sophomores out for crew. Numerals will be awarded to the men on the winning class teams and the points that each event will count are as follows: push ball, five; crew and the relay race, each four; and the tug-of-war, two. The class winning will have its numerals engraved on the Field Day Cup.

RIFLE TEAM DOES CREDITABLE SHOOTING ON WALKER RANGE

The results of the first days shooting at the Rifle Club's range in Walker Memorial have been very satisfactory: twenty and twenty-five men have been shooting a total of 350 to 380 cartridges per day. The scores of the first day were not very good, but since then they have shown marked improvement. The three high scores for the week will be posted Saturday.

So far the club has adopted the policy of last year, and furnished ammunition to the extent of twenty rounds a night to whatever members came around. This policy will be continued as far as it is possible to do so within the limits of the appropriation of money by the clubs for ammunition. They are, however, using five times as much ammunition per day as last year. When the present supply is exhausted, it will have to be sold instead of being given away. When the cartridges on a requisition from the National Rifle Association are received, there will be a resumption of the present system.

The club receives each year from the National Rifle Association a free issue of 200 rounds for shorts and twelve 30 caliber cartridges for each member. As stated before, these have not yet been received this year. The club receives a discount of 25 percent on ammunition, and will sell to members at cost. In 22 shorts, this is a cost of 21 cents for a box of fifty, and \$1.91 for 500.

The National Interscholarship Indoor matches will be held the week after next. The team will be picked each week from men who made the best showing (either on or off the range) in week previous.

FRESHMAN BANQUET

Tickets for the freshman banquet to be held in Walker Memorial on Friday evening, March 14, will be on sale in the main lobby every day between one and two, beginning Monday. The price will be one dollar. All 1922 men, don't fail to get your ticket!

AFTERNOON CLASSES DISMISSED MONDAY

In order that the Faculty and students may have the opportunity of participating in the welcoming of the President of the United States, no classes will be held after 12 o'clock on Monday.

BANQUET COMMITTEE FORMS PLANS FOR FRESHMAN DINNER

Sale of Tickets Begins Monday—Speakers Engaged—Jazz Orchestra to Play

The plans for the freshman banquet which will be held at 6.30 on Friday evening, March 14 are now complete. The price has been set at one dollar, and it is expected that almost all the class will be able to attend at this price. Tickets will be sold in the main lobby every day between one and two, beginning Monday for an indefinite period. In the opinion of the committee in charge, there is no reason why most of the freshmen should not be there, as it is held much later than usual this year, and the class has plenty of time to get acquainted and develop some class spirit.

The speakers for the evening will be President Maclaurin, Dean Burton, and John Nash '20, president of the Junior class. Nash will appoint some Juniors in the near future to take charge of the freshmen Field Day teams, and all of these men are expected to give short talks that evening. The actual entertainers have not been engaged yet, but they will consist of a jazz orchestra and a couple of good vaudeville sketches. The committee on entertainment will also try to get hold of some "movies" to run during the meal.

This dinner will receive much more publicity than it has in former years and there has been a lot more time to perfect the plans, so as to make the evening as enjoyable as possible. An effort will be made to reach every member of the freshman class, and with 800 members, a very creditable showing should undoubtedly be made.

1922 VS WORCESTER

Freshman Team Expects a Hard Fight With Academy Natators.

This afternoon the Freshman Swimming team tackles the strong Worcester Academy team at Worcester. The men from the Institute are counting on some stiff opposition for the Worcester team is about the best prep school aggregation in New England this season, notably their captain, Smith, who has few superior in distances around the 100. In view of this contemplated opposition the Institute freshmen are entering their strongest team. Capt. S. M. Biddell is entered in three events—the relay the 100, and the dive, as is also H. C. Fish who will hit the water in the 220, the 100, and the relay, so more than a few points may be expected in these events.

In the plunge T. J. O'Daly is certain to give a good account of himself as was the case at Annapolis last Saturday. In spite of the fact that this is perhaps about the hardest meet the Freshman will engage in this season, the team is confident that they will be able to add another victory to their ever increasing list.

The Technology lineup will be as follows: 50-yd. L. H. Rand or Robinson; and C. D. Rudderham. 100-yd., H. C. Fish; and Capt. S. M. Biddell. 220-yd. N. J. Greene; and H. C. Fish. Relay—Capt. S. M. Biddell; C. D. Rudderham; L. H. Rand and H. C. Fish. Plunge—T. J. O'Daly and J. A. Stalbird. Dive—Capt. S. M. Biddell and W. B. Purinton.

LATIN-AMERICAN CLUB DINNER

The Latin-American club will hold a dinner in the Walker Memorial, Friday, February 21, at 6.30.

All members wishing to attend this dinner will kindly sign their names on the bulletin board opposite the Bureau's office.

TECHNIQUE STARTS CANVASSING MONDAY

Board and Competitors Will Try To Cover Entire Institute In Ten Days—Campaign to Close March 5.

FIRST CALL FOR GRINDS MADE

The sign-up campaign for TECHNIQUE 1920 will be started on Monday and will last for ten days. This afternoon circulars were distributed among the students explaining what Technique is to be. It is expected through this means to eliminate a great deal of time which is normally wasted in explaining the publication to each individual.

There will be about thirty-five canvassers with sign-up books and they will make every effort to reach every individual in the Institute. No doubt there will be some who are missed and rather than take a chance on being left out these men should make an effort to obtain one either at the Technique office or to hunt up a man with a sign-up book.

The sign-up campaign will last until March 5th and after that date no subscriptions will be received. There will be no waiting list this year because the book will not be published until late. The sign-ups are redeemable up to the 15th of June. After that time, the deposit is forfeited. Those who

(Continued on page 2)

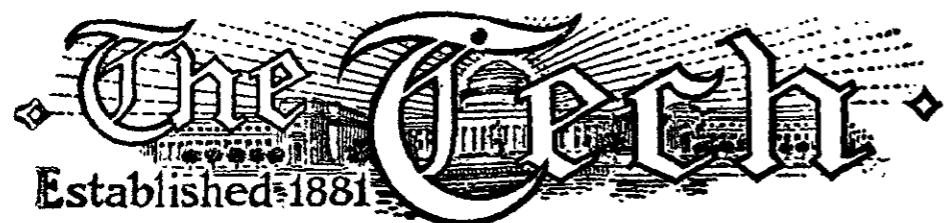
LARGE NUMBER OF MEN REPORT AT SHOW REHEARSALS

A large number of candidates turned out for the first rehearsal of the Tech Show chorus last Tuesday. As many as three hundred were present and try-outs were held for the parts of Betty Warren, Prudence Stanifish, Gussie Hunter, and Dick Warren. Many ex-members of the cast came out among whom were W. S. Frazier of the Show of 1917, and Fred Britton of the 1918 Show. The following men were retained as a result of the tryouts for the four parts: F. Britton, W. S. Frazier, R. Lewis, P. D. Appel, W. J. Hamburger, R. Felsenbittel, G. B. Allen, E. E. Schofield, J. H. Scott, T. Berge, J. McIntire, and A. Johnson.

A man need not be a singer to get in the chorus. All that is necessary is a little grace. Those who were not successful in being picked for feminine parts should try out for the male parts as there is a good opportunity in that end of the Show. The management asks that all men interested in painting scenery call at the Show office in the Walker Memorial at any time during the day just as soon as possible.

CALENDER

- Monday, February 24
 - 4.00—Tech Show Chorus rehearsal—Walker Memorial, North dining hall.
 - 5.00—Glee club rehearsal—Room 10-250.
 - 5.00—Banjo club rehearsal—Room 1-190.
 - 5.00—Wireless society meeting room.
- Tuesday, February 25
 - 5.00—Tech Show chorus rehearsal—Walker Memorial, North dining hall.
 - 5.00—Meeting of freshman editorial competitors for Technique—Walker Memorial.
 - 5.00—Mandolin club rehearsal—Room 1-190.
 - 5.00—Musical clubs saxophone sextette competitors meeting—Walker Memorial.
- Wednesday, February 26
 - 1.15—A. I. E. E. trip to Am. Tel. and Tel. Central station—Room 10-203.
 - 2.00—Spring Concert Sign-up campaign ends.
 - 5.00—Tech Show chorus rehearsal—Walker Memorial, North dining room.
 - 5.00—Meeting of Sophomore editorial competitors for Technique—Walker Memorial.
 - 5.00—Banjo club rehearsal—Room 1-190.
 - 5.00—Activities committee meeting—Room 10-275.



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Although communications may be published unsigned if so requested, the name of the writer must in every case be submitted to the editor. THE TECH assumes no responsibility, however, for the facts as stated nor for the opinions expressed.

Copy for Wednesday's issue of THE TECH must be in the hands of the night editor not later than Tuesday at noon, and for Saturday's issue not later than Friday at noon.

IN CHARGE OF THIS ISSUE

R. H. Smithwick '21 Night Editor
Henry C. Gayley '22 Asst. Night Editor

WEDNESDAY, FEB. 21, 1919

WHY BOTHER?

At a meeting of the Eastern Intercollegiate Athletic Association last Saturday, an attempt was made to bar Technology from membership, on the grounds that it was too large a college to compete with the others in the Association. This action was certainly premature, for as yet Technology has taken no interest in the new combine.

The Springfield Chamber of Commerce sent invitations to thirty-one colleges of New England and New York to be present at the meeting last Saturday when this association was formed. Of these, twenty, including Technology, failed to be represented.

This new association, fostered by the Springfield Chamber of Commerce, has as its object the bringing together of the smaller colleges of New York and New England for an annual outdoor track meet at Springfield. It is also proposed to allow the Springfield Y. M. C. A. College membership. The N. E. I. A. A. has tried placing meets in the city in question, and has come to the conclusion that it is not as convenient to all concerned as are some other places. Moreover, the N. E. I. A. A. has repeatedly refused membership to the Y. M. C. A. College on the grounds of professionalism.

From the fact that such a small number of the colleges expected to be present at the meeting Saturday were represented, it is to be concluded that the majority of colleges are quite well content with the rulings and methods of the N. E. I. A. A. It is most certainly true that this is the case with Technology, and until such a time as the new association can offer marked advantages over the present association, it will not be necessary to take any action on her eligibility for membership.

BASKET BALL AT LAST

It is with much pleasure that we can announce that basket ball is to be allowed in the gymnasium of Walker Memorial, whenever it does not interfere with gymnasium classes. This decision was reached by the Alumni Advisory Council on Athletics, and the decision of that committee is final and valid. Due to past financial experiences, however, there will be no Varsity team.

There has been some agitation the past few weeks by men wanting to play basketball because they were at first refused the use of the gymnasium. But now that the ban has been lifted, these men should get busy and awaken enough interest among the classes, dormitories, and fraternities to show the Alumni and others that the need for a place to play basket ball was as great as they claimed.

BOXING

Whether or not the war on the whole has benefitted humanity is an unsettled question. It has, however, brought home to many of us living in this scientific and cultured age one thing which we had wholly or partially lost sight of, and that is that physical fitness as well as mental is a valuable asset to any real man.

In most colleges the students may display their fighting spirit in football, baseball and other similar pastimes. Unfortunately Technology students have not the time for such elaborate gladiatorial contests. There are, however, other roads open to the Institute man from which he may receive the same physical benefit.

One of these, almost totally neglected in the past, which touches directly this spirit of physical combat and exercise and yet, contrary to the popular but misguided conception, is without even the physical danger encountered in football is intercollegiate boxing.

Boxing should flourish in any technical school because of its merits as a good fast clean exciting sport which takes little time and practically no equipment. But to Technology at the present time it offers special attractions because we have men who form the foundation upon which to build a boxing team. One of these men is a former amateur New England champion, and is now in line for the national championship. Many others have already proved their worth in the amateur ring, and under the guidance of such men, there is no reason why Technology, if the students show the proper interest, cannot develop an exceedingly creditable team.

But whether a man intends to try for the team or not, it is decidedly to his advantage to make use of the opportunities offered him and—technically speaking—increase his factor of self-defence.

NEXT TO GODLINESS

The gymnasium in the Walker is dirty. In contrast to the general cleanliness about the Institute, there seems to be a laxness in our recently opened Gym. We cannot deplore this condition too strongly. The students who use the gym, and those in charge perhaps have not noticed it,—in their zeal that is not improbable,—and when they realize it will make amends, but in passing it seemed that a little reminder would not be amiss. Also, occasionally a thoughtless student goes onto the floor with street shoes. This must be stopped. It is bad practice, spoils the floor and lowers the general tone of the place. It only takes one or two such little slips to counteract the general good effort, so they might just as well be eliminated now.

M. E. SOCIETY VISITS THE WALTHAM WATCH FACTORY.

Arrangements Made So That 120 Men Have Interesting Trip.

The Mechanical Engineering Society has at last overcome all obstacles and has made definite arrangements concerning the long heralded trip to the Waltham Watch Company. The plans for this journey have been subject to much revision through no fault of the management but simply because of hard luck. The trip scheduled for Monday last could not be undertaken due to the fact that the guides who were to take the members through the plant were in Washington on business. The new arrangements are much better than the old however—120 men being able to go where only 80 could have gone, had the original plans gone through. Two trips were held on Wednesday, Thursday and today, each one accommodating twenty men. Those wishing to take the excursion and having signed up for last Tuesday, Wednesday and Thursday, will take the second trip of the day they chose, those having chosen Tuesday, going on the second trip on Friday. Men just having signified their desire to go will be taken care of in the first trip of the day which they signed for. Owing to the unusual enthusiasm displayed by the members and the great number desiring to go, only those who are members and who have paid their dues will be considered at all for the trip.

PROFESSOR SPOFFORD WILL SPEAK TO C. E. SOCIETY

Professor Charles M. Spofford, head of the Civil and Sanitary engineering department at the Institute, will speak on the construction of the Boston army supply base at South Boston, at the meeting of the Civil engineering society to be held in the Dorm dining room February 27 at 8. The supply base built last summer was the largest project undertaken in New England, involving an expenditure of approximately \$26,000,000 which was somewhat less. The project was authorized by the Storage and Traffic Division of the Army, and built by the Construction Division from designs and under engineering supervision of Fay, Spofford & Thorndike, Consulting Engineers, of which firm Professor Spofford is a member. The Constructing Quartermaster stationed on the work was Major Charles R. Gow, for several years lecturer in Foundations at Technology. The project includes one of the largest reinforced concrete buildings in the world, with a total length of 1648 feet,

Alumni personals, news of class and alumni associations, and other alumni activities will be gratefully received. The prompt arrival of such information will facilitate the work of the Associate Editor in making the department as timely and complete as possible.

TECHNICALITIES

BY JIM

Some anonymous gink sent me the following a couple of days ago. Read it over:

Say you S. B. F., I hear you write those Technicalities, Yes?

Well, there are a lot of Boobs around the Institute who think the halls are in some way connected to a Smoke Lab, and they fill the whole place with their cigarette smoke. How about telling those persons where they get off? A little hint, as it were. A few days ago I saw the Dean tell some of them to stop smoking in the halls. The persons mentioned went along the hall a little distance and then started right in again with their smoking. I suppose these are Tech Spirit?

Well they ain't.

Take it from me, A Perpetual Grouch.

Who's d'you think of him? A typical Technological crab, what? Now listen: don't be too hasty, because I ain't would have converse with thee. In American that means that I am going to tell youse where youse get off. Did you ever stop to think how you look with one of those coffin nails in your face? Of course you have and you think you look some classy; but you don't. You look like the distressed son of a disgraced window shutter. You show yourself to be less than dust. You publish broadcast to the World that you are the putrid progeny of a vile and decaying generation. Now if you want to smoke cigarettes, go to it, but if you have any respect for yourself or our Alma Mater, for the love of Mr. Benson don't do it in the Institute corridors. The chances of your reaching the pearly gates are just as good whether you smoke Camels or not, so you need not stop on my account. But if the outfit should go democrat, and after your short sojourn in this weary vale of sin you find yourself with a one way ticket to—well, like Harvard, it begins with an "H"—all those cigarette smokes are going to be as good as a mortgage on a specially hot little roaster for you personally. That is all straight dope, but don't ask me how I know, because if I told you, you would know and that would spoil my game. Now on the level fellows, cigarettes are not necessary to your studentivity, and it does look so rotten to see a fellow slouching along the corridor with a "But" sticking out of his face. Suppose you think it over. If you think I'm wrong, or if you have any ideas, drop me a line over at the Tech office, it does us all good to be razzed once in a while.

COPPER ECONOMY

The reduction, which has been found practicable, of the size of the wire and the weight of copper required in the transmission circuits of telephone companies not only greatly reduced the cost of material, but made it possible to use, in the underground conduits, cables with as high as 30 times the number of circuits for which they were originally intended. When it is considered that there are over 20,000,000 miles of copper wire in use, and that the reduction in weight is from one-half to even one-quarter of what was formerly needed, the saving can be appreciated. And when it is realized that the underground conduits for the telephone cables have cost over \$100,000,000, some idea of the saving in construction through increased capacity can be formed.

TECHNIQUE SIGN-UPS

(Continued from page 1)

want a Technique 1920 must subscribe now.

The Technique Board still needs informal pictures of the students. The staff photographer has been taking pictures of everyone possible but it is not possible for him to cover the Institute as thoroughly as the Board desires. The requirements for the pictures are only that they be good clear pictures and in some way connected with the Institute or the undergraduates. They may have been taken several years ago of some present student, professor, or alumnus. The Board wants all of these possible. If your roommate has an especially funny snapshot,—or some one else that you know has one, bring it to the Technique office.

The Grind's department has made its first call for material and a second one will be made next month. The winner of the Grind's Competition will be announced just previous to the Technique Rush and will be given his special volume of the book at that time.

The Statistics Ballots must be in by Tuesday. These ballots were distributed among the students on Tuesday to every member of the Junior class that was possible. The winner of this competition will be given a free volume of Technique with his name printed in gold on the binding. No one will be considered unless they have already subscribed to Technique and the deposit will be refunded to the winners.

COLLEGE NOTES

Work on the Aftermath at Worcester Tech is progressing rapidly. The committee has already received bids from printing establishments in regard to the price of publication, but no information has yet been a out. The nature of the book this year will be more complete than last year, the title of the Class Book being kept to its usual high standard. Most of the cuts and sections, which were omitted last year, will be in this year's aftermath. The business staff has already started getting advertisements, and assignments are being distributed among the Seniors. A man from each course has been elected to assist the editors. From all appearances, the Aftermath of this year will be well worth purchasing.

A great treat is in store for the members of the R. O. T. C. at Nebraska. An army order recently received at the commandant's office states that all members of the unit will be issued all necessary galia that will equip the individual for fighting strength. All men will receive O. D. uniforms, including a shirt, belt, shoes, and leggings. Instead of the army cap, as was worn by the members of the unit last year, the regulation army hat with the red, white and blue hat cord will be issued.

In addition to the complete uniform, the men will be privileged to carry the new 1917 Springfield rifle. The old Krag-Jorgenson rifles used for the past few years will be returned to the military department and the new models will arrive presently. Commandant Frankforter has not gathered all the details from headquarters, but he is of the opinion that the military program includes a short encampment and a number of sham battles, for the order further states that each man will receive one pack carrier, haversack, first aid pouch, meat can, and the knife, fork and spoon. A few hundred rounds of ammunition and a number of targets for use in rifle practice concludes the list of articles.

On Tuesday evening last the Trinity College Dramatic Society came into being.

The need of such an organization has been felt at Trinity for some time, and the highly successful trench play given by the college about two months ago brought matters to a head; accordingly a committee was appointed to consider the formation an constitution of such a society; and last week the college met to adopt the constitution prepared by it.

The chair was taken by Mr. H. B. Sandamore, Mr. Wm. Hazell acting as secretary.

As outlined by the constitution, the purpose of the Society is "to study dramatic art and literature, and incidentally to produce plays."

Fortnightly meetings are provided for.

After the various terms of the constitution had been discussed and voted on, nominations for the final offices of the Society were called for. Elections will take place on Friday.

The new organization fills a long-felt want, and its enthusiastic start augurs well for a successful and most interesting career.

Last week the Faculty decided that the regular Commencement Exercises of Worcester Tech shall come on Wednesday, June 25. It is expected that the Alumni reunion will be very well the first real opportunity for the "old boys" to come back and get together since the war started.

The following articles recently appeared in the Smith College Weekly:

Are men conceited? Oh, no! Yet the following editorial in the Daily Princetonian was published shortly after it was learned that the debating committee of Princeton University representing the two ancient "halls," Whig and Clio, had challenged Vassar College to an informal debate. The editor says, "The undergraduates have been patient and tolerant toward the 'halls,' have tried to overlook the fact that they are about the most useless piece of gear on the campus; they have tried to be blind to the childish spectacle of 'hall' initiations; they have been so kindly as to rate debating teams one step higher than chess teams. But the proposal to cross swords with the petticoated representatives of this bitter rival is too much. We throw up our hands in silent surrender; our vocabulary of invectives is utterly inadequate. In desperation the students are proposing a knitting or sewing tilt with Bryn Mawr; a ping-pong match with Barnard; a spelling bee against Wellesley, or a tea-pouring contest with Miss So-and-So's finishing School." The editor is evidently not aware of the fact that the world has progressed since the Dark Ages and the opinion of women and the place they hold in the world has changed correspondingly. Smith College extends to

Vassar her most sincere wishes for her success—if she condescends to accept the challenge.

That there should be a Prom this year in which both juniors and seniors may take part was decided at the 1920 class meeting on Saturday, February 8. Both classes will have their garden party together, but the dances will take place on different nights. Elizabeth Wyandt 1920 was elected chairman of the Prom. The new plan for an open and definite system of passing office was read to the class, after which Carol Rice briefly outlined the plans for Junior Frolic and Margaret Broad spoke of the 1920 part in the '19-'20-'21 Show for February 22. It was also announced that there would be four division dances given this semester.

The Columbia Spectator recently published the following speech by Dean H. E. Hawkes of that college:

"One of the big things that Columbia has learned from the Students Army Training Corps was the importance of a motive in education," said Dean H. E. Hawkes in a speech which he delivered Wednesday afternoon before the returned Alumni at their Annual Reunion Day celebration.

"As long as the men had a chance of being transferred to a central officers training school, they worked harder than any group of students, I have seen," Dean Hawkes said. "But as soon as the armistice was signed their motive was gone and little annoyances, such as noise or light that was not the best, became great annoyances to them."

"Few of us had seen motive at such close range working with such great effective force, and we felt that it would be very much to our discredit if we failed to discover or evolve a new motive for the men who remained in college and those who come back from the army or entered as new students. And we believe we have discovered a motive. With the men who return from the army the motive is education as a means of leadership. They have seen that the men with education and intellectual powers are the men who lead and they are returning with that knowledge as their motive. The most permanent motive, our experience has already shown, is the professional motive; that is, taking courses in the college that are in preparation for admission to the professional schools, such as our preengineering courses. The men who enter college with the idea of continuing their university training through one of the professional schools possess a motive that is lacking in the boy who just wants to go through college."

"We are also going to present a new point of view to our freshmen in some studies. It is the result of our experience in the teaching of the 'War Issues' course in the S. A. T. C. The freshman will have five hours a week in history, government, economics and philosophy, with close collaboration among the instructors in these subjects. In the study of history we propose to break away from the old plan of beginning with the beginning of history and working up to the present. Instead we will start with the present history and work backwards. Of course this plan does not interfere with the higher forms of history study, but will be applied to the boys in their first year in college. They will be taught the fundamentals of our present state of society and then studies will be made of the origin of the present status of affairs. These inquiries will take us to various epochs that contributed ideas leading to the phase of history we are studying."

On Tuesday evening last the Trinity College Dramatic Society came into being. The need of such an organization has been felt at Trinity for some time, and the highly successful trench play given by the college about two months ago brought matters to a head; accordingly a committee was appointed to consider the formation an constitution of such a society; and last week the college met to adopt the constitution prepared by it. The chair was taken by Mr. H. B. Sandamore, Mr. Wm. Hazell acting as secretary. As outlined by the constitution, the purpose of the Society is "to study dramatic art and literature, and incidentally to produce plays." Fortnightly meetings are provided for. After the various terms of the constitution had been discussed and voted on, nominations for the final offices of the Society were called for. Elections will take place on Friday. The new organization fills a long-felt want, and its enthusiastic start augurs well for a successful and most interesting career.

WIRELESS SOCIETY TO HOLD SECOND MEETING MONDAY

Professor Franklin To Speak on the Audion in Radio Communication

On Monday afternoon, February twenty-fourth, the Technology Wireless Society will hold its second big meeting of the season. Proceedings will begin as soon after five o'clock as possible. The main feature of this meeting will be a semi-technical lecture by Professor Franklin on the subject of the Audion in radio communication. Professor Franklin is a recognized authority on such subjects as this, and the management is sure that his talk will be invaluable to all radio men. In addition to this feature there will be the appointment of two committees. One of these will be a committee on station installation, while the other will be in the nature of a publicity committee. A large attendance is desired in order that the proper men may be appointed on these two bodies.

The Wireless Society has established itself in Room 10-219 as its headquarters, and is exerting itself to reach the prestige which it had during its pre-war existence. Temporary officers have been elected to take charge during the period of reorganization. It is expected that there will be another election shortly after the March examinations, at which time permanent officers for the year will be elected. Each office is to be open to competition, and the man proving himself most efficient and

worthy will have the best chance of filling an office.

The officers of the Society desire to make it very emphatic that any student at all interested in wireless telegraphy is eligible for membership. Apparently the rumor has been going abroad that only proficient operators are permitted to apply for membership. However, this is not the case, and all members of the Institute who desire to make use of the opportunity offered them are invited to join. The regular dues consist of an initiation fee, payable at the time of entrance into the Club, and a membership fee of one dollar, also payable at time of entrance or at a later date if so desired. All prospective members are requested to visit the office (Room 10-219) where any information they may seek will be supplied.

It is also desired to convey to the student body that daily practice in the Continental code is being held in room 10-275 with a competent commercial operator in charge. From one to one-thirty P. M. the speed of the messages is cut down so that beginners may have a chance to practice, and from one-thirty to two the speed is raised to an average of over twenty words per minute. All men interested, whether members of the Society or not, are invited to attend this class and they will be shown what the organization is already accomplishing.

The officers are planning for a regular weekly event either of the nature of a smoker or an outside trip to large stations or to plants where radio apparatus is manufactured. Such places of interest as the big Tufts radio research laboratory, the Harvard radio installation, and stations of similar importance will doubtless be visited. It is also expected that opportunities will frequently offer themselves to join with the Electrical Society in its events.

As soon as the committee in charge of station installation has been appointed steps will be taken toward the purchase of the various pieces of apparatus needed to set up a station at the Institute. The main obstacle in the way of installing an efficient set is the difficulty in locating an antenna in such a way that Institute property will not be disfigured, and also that the effect of the large amounts of steel and iron in the buildings themselves may be eliminated. Various projects have already been set forth, and the outcome will doubtless lead to some very interesting experiments with various types of transmitting and receiving antenna which should be of value along lines of research.

In the installation of apparatus the Society will have the aid of the professors in the Electrical Engineering Department. These men are recognized as authorities on the subject, and under their guidance there is every reason to believe that a very efficient station could be erected. According to present plans there is to be a long distance, continuous-wave receptor for advanced work in the art. For the many radio "hams" there will also be a set designed along amateur lines for short wave work with surrounding amateurs and commercial stations. Due to the large number of men interested in the Society it will be necessary to limit the number operating the station at one time, but the officers feel confident that arrangements can be made to accommodate all.

Announcements concerning the activities of the Society will be posted on all the bulletin boards, and these will be further supplemented by articles in THE TECH. All members and those interested are requested to keep themselves well informed by these means as special meetings may be called at any time in addition to the regular events of the week. The office is to be open in the future from one to two o'clock daily in addition to the regular code class.

INSTITUTE WRESTLERS TO MEET SPRINGFIELD Y. M. C. A.

Close Struggle is Expected in Walker Next Friday

On Friday afternoon at four o'clock the Institute wrestling team will meet the strong Springfield Young Men's Christian Association team in the Walker Memorial. Although handicapped at the start of the season by adverse conditions, the mat men have gradually rounded into condition and expect a close struggle with the visitors. There will be an entry in every weight but the unlimited class, making a total of six bouts.

C. F. Schumaker '22 the former Annapolis wrestler, should be able to take part in the meet, despite a small injury that kept him out of the Harvard meet last Saturday. Barnard, a fast little wrestler just developed from the freshman class, will make his initial appearance in the 115-lb. class, Boles, the former Andover star, will take care of the Springfield 145 lb. entry. Boles, who was forced to exercise off three pounds a few hours before the Harvard meet, expects to be in better condition this time and a fast bout should ensue. Jack Wood, '19 who is undefeated this year, will wrestle in the 158 lb. class, Captain E. W. Freeman '20 in the 175-lb. class, and Allan D. Addicks '19 in the 125 lb. event.

Manager J. Doyette '20, wants as many men as possible to come out and

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cheer the team. The meet will still be in progress after five o'clock, so that men who are free from classes till then can still see the meet. A return meet with Andover has been arranged, and several college meets also are pending.

PAPER DRIVING BELTS

Some particulars of the paper driving belts which are now being introduced into German workshops are given in the Bulletin des Usines de Guerre, a translation of which appears in the Compressed Air Magazine. The paper is cut into narrow bands, which are then spun. The belts are made by weaving or braiding. Woven paper belts are of two kinds—paper fabric and paper thread belts, the former being the more frequently used. The fabric is first cut into bands 40 m. long, which are subsequently made up according to the desired width and thickness. A core of strengthening material is interposed, either cotton or sheet metal, though more recently these cores have consisted of paper thread and metal wires interwoven. The core is surrounded with the paper strips and the whole sewn with strong thread. Belts so prepared are said to be very flexible and to wear satisfactorily. Woven paper belts have a tensile strength of from 100 to 125 kg. per centimeter of width.

PRECIOUS STONES

J. Rambosson, of the French Academy of Sciences, in 1870 published a work entitled "Les Pierres Precieuses et les Principaux Ornements" ("Precious Stones and the Principal Ornaments"). He first describes the more important precious and semi-precious stones; then ivory; next the metals are taken up—first gold, then silver, then platinum; and lastly, to one's surprise in these days of its great commercial application, aluminum. In fact, to it Rambosson gives five times as many pages as to platinum. He states that because of the lightness of aluminum, one kilogram, valued at \$60 (equivalent to about \$27 per lb.), may replace four kilograms of silver, worth from \$160 to \$180, that is aluminum was then from 33 to 50 percent more expensive than silver. Rambosson is of the firm opinion that because of the metal's beauty it will have a wide use in jewelry and the arts. The world moves, and in 1914 about 68,000 tons of aluminum was produced, and a kilogram was then worth about 40 cents.

MORE ABOUT BOLSHEVISM

There is nothing vague or incomprehensible about Bolshevism as it is explained in The New Europe by M. Rostovtzev, who says a group of agitators, almost microscopically small in the beginning, as compared with the whole population of that great country, raised themselves to power by the promulgation of a watchword of wonderful simplicity. It was as brief as simple—"Steal what has been stolen"—and to be perfect for its purposes it needed only the addition that was promptly made—"Kill those who resist." The result in Russia, as M. Rostovtzev says, has been what might be expected. "Civil liberty," he writes, "has been trampled on; there is no trace of personal freedom; unrestrained tyranny and bureaucracy reign supreme. Russia produces nothing and lives with difficulty on what was accumulated formerly, on the remains of its material and spiritual capital."

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SOME VIEWS OF LABOR

It is important always to get many views. The New York Sun recently sent a representative to ascertain and report respecting the conditions in the important manufacturing and munitioning city of Bridgeport. He submitted an illuminating report. Among other things he mentioned a conversation from Sam Lavitt, business agent of the machinists' union.

"Cancellation of war contracts," said Mr. Lavitt, "has practically closed the small shops, which laid off a majority of their men two or three weeks ago. These men can get other jobs, but won't take 'em."

"Why not?" the Sun reporter asked. "Because the war standard of wages must be maintained," said Mr. Lavitt. "The manufacturers want to pay 65c. an hour to toolmakers who have been getting from 80 to 90c., and 45 to 50c. an hour to machinists who have been getting from 60 to 80c. The manufacturers are trying to break down the standard, and the men won't stand for it."

"We have a program that would prevent both wage cuts and lay-offs. That is, let the manufacturers continue to pay the same wages they have been paying and if necessary reduce the number of hours so that everybody could keep working at the old wages until we get adjusted to peace production and the hours could be increased. Suppose a factory has 1000 men and now has work for only 500. Instead of laying off 500 let it cut the working day from eight to four hours, and keep on that way until business picks up."

Mr. Lavitt's idea reflected, of course, the ancient fallacy respecting the advantage of breaking window panes in order to make work for the glaziers. The general adoption of such ideas would turn civilization backward on the road leading from the condition when men lived in caves, wore the skins of animals and lived by trapping and fishing; from which state the civilized world has progressed slowly and painfully.

The people of the country paid the ransom demanded by the railroad brotherhoods. Mr. McAdoo, after he became Director-General of Railways, advanced wages some more, and then all around. It has been notorious, however, for some months that nobody was happy. The shippers of freight and the travelers were disgruntled by the increased costs to them, which were directly due to increased wages. But the recipients of the increased wages were even more unhappy. Things were all right so long as Mr. McAdoo did business only with the big brotherhoods; but when he undertook to improve the situation of everybody working on the railways he unbalanced the schedules. A man may be perfectly contented with his pay, but if he finds another man, whom he knows to be of inferior capacity and to be doing inferior work, getting just as much, or nearly as much, his contentment quickly vanishes. This is what happened on the railways.

It is shrewdly conjectured that one of the reasons for Mr. McAdoo's retirement is the mess that has been made of the railroad situation. The public is dissatisfied, and so are the employees. It was manifestly necessary to exercise considerable ingenuity to produce conditions that satisfy nobody.

CANADA'S RELATIONS

The following article on the international relations of Canada recently appeared in the Engineering and Mining Journal.

Canada is economically dependent on other territories. We lack many commodities essential to commercial independence, such as supplies of raw sulphur, iron, coal, and other materials. We are dependent on outside sources, in part foreign, for much of the iron ores which are converted into pig iron and steel in our blast furnaces. We produce no anthracite coal. Central Canada, in which is nearly one-half of our population, and about one-half of our manufacturing industries, is, at present, directly dependent on the United States for winter fuel, and for steam power. The coal fields of eastern and western Canada could not be developed sufficiently to enable them to replace this foreign fuel supply in less than three years' time, were that supply suddenly withdrawn. Fuel supplied from these fields would not be so satisfactory to the consumer and would cost much more. Our present house-heating appliances are not adapted to using this type of fuel, and the people would experience difficulty in learning how to use it properly. Our present transportation systems are not capable of handling the additional traffic that would develop, and would have to be expanded. This expansion would

be costly and would require considerable time for effective development.

On the other hand, the United States is practically dependent upon Canada for nickel, asbestos, and for certain other materials. An extensive trade has been developed between the two countries in both raw and manufactured mineral products. The most important electro-chemical industries of the continent are situated at Niagara Falls, on both sides of the international boundary, and are dependent on the electrical power generated there. We are reported to possess material reserves of potential power, a portion of which we will be able to exchange for essential commodities that we do not possess, or which are not at present convenient of access. Eventually we will probably control the supplies of coking coals and the by-product coke industry of the continent. International relations arising from these conditions will need consideration, preceded by accurate investigation, some of which is now in progress.

At present about 80 percent of the nickel industry, approximately 90 percent of the copper industry, a percentage of the iron and steel industry, and nearly the whole of the heavy chemical and fertilizer industry, and portions, or the whole, of many other industries, are controlled by citizens of the United States, and many of the head offices of the companies concerned are situated outside of Canada. The same is true of many minor industries. In a number of cases the control of the greater portion of the raw materials now produced, and which would be required by industries not now established in Canada, is in foreign hands. At the present time a copper refinery owned by citizens of the British Empire would be almost wholly dependent for its supply of raw material in the form of blister copper (90-98 percent pure) on the product of mines and smelters owned by foreigners. The same is true of nickel, sulphuric acid, nitric acid, hydrochloric acid, and many other products.

This condition of affairs gives rise to several problems, the most important of which involve the consideration of ways and means to persuade or compel the foreign owners of basic industries to produce finished products in Canada.

BY THE WAY

"Two of the richest countries in the world are Mexico and Russia," says Charles W. Barron, in the Boston News Bureau. "One is the richest country in minerals and the other the richest in possibilities of agriculture. Both of these countries have been bedeviled by poison I. W. W. socialism that would put hands and feet at the top and the head underneath, upturning all government and order."

The mill with which the Mining School is equipped marks the highest point toward which the world's metallurgists have attained, writes a contributor to a Canadian contemporary. The plant and machinery designed and installed by men who have attained to the height of the profession of mining and metallurgy, is among the most modern and flexible ever constructed.—Some height, we would anticipate.

Mexican silver dollars, the purest of silver coins, are being converted into bullion by their holders in order to take advantage of the price of silver, stated a correspondent recently in the Economist; and the only silver money left consists of 50-cent pieces, which are, or were recently, at a premium of 8 percent. The government is considering the issue of token coins in silver or a baser metal, and, meanwhile, is coining gold pieces of 2 1-2 pesos, which are inconveniently small. Two-peso gold pieces are also to be issued, and it may be difficult to avoid confusing the two.

Aladdin's lamp would probably be listed in the Patent Gazette as an oil device. An invention that would fall in the same category plays a part in a lawsuit recently reported in the New York Tribune. More than \$3,000,000 and a device to discover oil pools, described as a "radium device," are involved in this suit for \$600,000, which was filed on Jan. 25 in the Supreme Court by Dr. Hugo J. von Hagen against Karl J. Schumacher. Dr. von Hagen, owner of the "oil finder," alleges that he agreed with Mr. Schumacher in May, 1917, to allow him the use of the magic instrument, the plaintiff to receive one-sixth of the sum realized from the discovery of oil tracts, which, the inventor says, has amounted to more than \$3,000,000. Dr. von Hagen alleges that oil was discovered on 20 different tracts, covering 23,704 acres of land, in Texas, Pennsylvania, Oklahoma, and Kansas.

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