

VALENTINE DANCE PLANNED BY SENIORS

Tickets Placed on Sale at
1 O'clock Today in
Lobby

DEAN PERMITS LATE HOURS

Tickets for the Senior Valentine Dance will go on sale in the main lobby at 1 o'clock to-day. This is the last formal gathering of the Seniors before Senior week, and will be held in Walker Memorial February 14. The affair is under the charge of the Senior class officers. They are making elaborate plans, which include a supper. Tickets are priced at \$3.50 a couple, and will be on sale in the main lobby daily until sold.

Mrs. MacLaurin a Patroness

Dean Talbot has given permission for the dance to last until 2 o'clock. Music will be furnished by Walter Johnson's 10-piece orchestra. The committee is making extensive plans for the decoration of the Hall, and for a light supper to be served in the balconies at 12 o'clock. Dancing will start at 8.30 o'clock.

The committee feels especially fortunate in securing Mrs. MacLaurin and Mrs. Talbot to serve as patronesses. The success of this dance may serve to make a mid-season gathering of the Senior class an annual event.

Sell Tickets in Main Lobby Today

The first tickets go on sale today, and the sale will be continued several days. Tickets are being sent around to the fraternities and dormitories by special representatives. The committee asks that these men turn in the proceeds and unsold tickets not later than February 13. The Finance Committee is trying out a new system for checking the sale of tickets, which, if successful, will be generally adopted. Tickets are limited to members of the Senior class.

Class Officers in Charge

D. F. Carpenter is acting as general chairman of the committee. H. J. Horn, Jr., is in charge of program and tickets, and T. H. Gill is caring for the decorations.

FACULTY CLUB COMBINES MEETING WITH LUNCHEON

The Faculty Club will hold a luncheon-meeting in the north hall of the Walker Memorial today at 12 o'clock. Following the meal there will be a twenty-minute talk by Mr. G. W. Coleman. The meeting will close in time for the 1 o'clock recitations.

Mr. Coleman will speak on "Training for Business." He is connected with the Babson Statistical Organization, and is the originator of the Ford Hall Forum.

As the holding of future meetings of this type depends upon the success of this one, the committee in charge urges the attendance of all members who can come. If other meetings are held, they will take place at either 12 or 1 o'clock.

M. I. T. MATH CLUB HOLDS ORGANIZATION MEETING

Adopts Constitution and Elects Officers—
Dr. Wiener Speaks

WILL MEET TWICE A MONTH

An innovation in Technology student organizations was effected when the M. I. T. Math Club was organized last Thursday night in the east lounge of Walker Memorial. About 50 men were present and the leaders expect the club to be a complete success.

The meeting was opened with a short speech by Dr. Wiener, who told something of the value of mathematics and of the purposes of a Math Club. "Mathematics," he said, "is the language of the engineer. It is especially important in the electrical courses. The purpose of a Math Club is to get the students more interested in the subject, so that they will continue into the higher branches."

After the talk, a committee of five was appointed to revise the Constitution brought in by Isaac Brimberg '24, the organizer of the club. The revision was completed in a few minutes and the Constitution was voted upon and accepted. Following this, a president, vice-president, secretary, and treasurer were elected. They are, respectively, J. T. Nichols '22, Allen Isaacson '23, M. V. Glover '22 and Walter Dietz '23.

SHOW CONCERT EXTENDS SALE

Former Cast Members Will
Sing New Songs—Begins
at 8:15 O'clock

TICKET SALE ALSO AT ROGERS

In order that all the students who contemplate attending the concert and dance of the Tech Show orchestra may have no difficulty in obtaining their tickets, the management has decided to extend the sale today and tomorrow. As usual the stand will be in the Main lobby; and the time of sale will be from 12 to 2 o'clock both days. Special arrangements have been completed whereby the architectural students may obtain the pasteboards with the least possible trouble. The plan is to have the tickets on sale in the downstairs office of the Rogers building.

The affair is to be held in the Main hall of Walker next Friday at 8:15 o'clock. The concert will continue until 9:30 o'clock when supper will be served in the balcony. After supper the dancing will last until 12 o'clock. The entertainment committee has planned some features which they feel will be of unusual interest to those attending. The principals of the former Tech Show have been co-operating with this committee and will present several new songs. The price of the tickets will be \$2 per couple and will cover all charges for the evening.

EXPRESSES SYMPATHY IN LETTER TO NASH

T. C. A. States Desire for a Renewed Engage-
ment in April

REFUSE OFFER OF SUBSTITUTE

The T. C. A., in view of the unfortunate condition of Mr. Arthur Nash necessitating his withdrawal from his Technology engagement, has mailed a letter of sympathy, and expressed the hope that Mr. Nash will be able to speak here when the doctors have announced his recovery. The date suggested was about the middle of April.

Answering the offer of Dr. Harold Marsh, Mr. Nash's representative in New England, to procure a substitute to fill the engagement, the T. C. A. replied that no other speaker could take the place satisfactorily in his particular field, and that his was the one message most needed by Technology students this year. Enclosed in the letter was a copy of the communication sent to all Institute organizations, clubs and fraternities asking them to reserve the date of the Nash meetings, and a copy of THE TECH for last Friday containing an account of Mr. Nash's withdrawal.

The association has also sent a letter to the same organizations which had been asked to make the Nash talks a success by refraining from holding other functions during his stay, thanking them for their proffered compliance and asking that the agreement hold over for any date which may be chosen later.

ELIGIBILITY SYSTEM TO BE TRIED BY M. I. T. A. A.

Certificates of Competitors Must Be
Approved by Dean

In order to keep better track of the competitors and men on the teams, the M. I. T. A. A. is now trying out a new system of "eligibility" cards. All men engaging in athletics, whether on a team or not, must have one of these cards, fully made out, and sworn to by himself. This is expected to eliminate misunderstanding and makes clear at a glance whether a man is qualified to compete or become a member of a team.

Besides this, before each meet there must be filled out a certificate of competitors which must be O. K.'d by the manager of the team, the secretary of the M. I. T. A. A., and the Dean's office before the meet can take place. The purpose of this system is to form a permanent record of each athletic event and the men taking part in it. Heretofore there have been no records kept of what each team has accomplished in its various engagements, so that the next year's team was completely in the dark concerning what its predecessors had been able to do against a team which they in turn were going to engage. With this record system all of this uncertainty is expected to be done away with.

NO ISSUE WEDNESDAY

The next issue of THE
TECH will not come out
until Thursday morning.

RADIOS AND ELECTRICALS MEET IN JOINT SMOKER

Carrier Wave Telephony will be the subject of a talk to be given before a joint meeting of the Radio and Electrical Engineering Societies tomorrow evening in the main hall, Walker. The New England Telephone and Telegraph Company is sending one of its prominent engineers to give the address which will be followed by movies showing the construction of the trans-continental telephone line.

The program will start at 7:30 o'clock and proceed with smokes, concluding with eats.

SOLDIERS OUTSWIM ENGINEERS, 35-18

Cadets Prove too Fast for
Technology Natators and
Score Easy Win

TWO FIRSTS FOR INSTITUTE

WEST POINT, N. Y., February 4—The Army swimmers proved too fast for the Technology delegation when they out-splashed them to the tune of 35-18. Bob Purinton did exceptionally well in the dives and well deserved first place. John Henninger bested his former efforts when he plunged 72 feet in the West Point tank, winning the only other Beaver first. Stalbird had an easy second over the Army plunger.

In the fifty yard dash, Earl Palmer was ahead at the turn, but Goodman came through with a spring at the end, that reminded one of Damon in the Amherst meet and barely nosed out the Engineer in the fast time of 26 seconds.

Bert Weber swam the 100 yard dash instead of the 220 but was only able to secure third place. Dearmond winning the event in 58 3-5 seconds. The 220 went to Braidster of the Army in the fast time of 2 minutes 38 4-5 seconds. S. F. Brown of Technology securing third.

Bob Purinton Wins Dives

Bob Purinton, in the dives, did the best that he has done in a long while and had a clear advantage over Longwell, who secured second for the Cadets. In the relay, the last event on the program, the Engineers hoped to raise their score to within a point of the Army, although the Cadets had forged too far ahead to make a win possible. The Academy lads were again too fast, however, and Dearmond was almost five yards ahead of Earl Palmer at the finish.

The summary:

Fifty yards—Won by Goodman, Army; Palmer, M. I. T., second; Duerr. (Continued on Page 3.)

ARMY ORDNANCE ASSOCIATION RUNS SMOKER ON WEDNESDAY

"Small Arms and Machine Guns" is the subject on which Major Herbert O'Leary will talk to Army Ordnance Association, Technology Post, at their smoker Wednesday night. The smoker begins at 8 o'clock in the main hall of Walker.

Major O'Leary is the Chief of the Small Arms and Machine Gun Division and is connected with the office of the Chief of Manufacture. He has had much experience with these weapons as he was engaged in their development during the war and is at present engaged in developing the 50 caliber machine gun.

The Technology Rifle Team has been invited as guests of the Association. Invitations have been sent to fifty professors who are interested in this subject. As President T. E. Shepard is a member of Course X-B and is away from school at the present time, Captain Nicely, Vice President, will preside at the meeting.

The Institute Army Ordnance Association is composed of the 20 ordinance officers at the Technology School of Application located at the Institute and the 20 ordinance officers of the Technology School located at the Watertown Arsenal. Within its membership are also the men in the R. O. T. C. of the ordinance corps who have already attended the summer camp at the Aberdeen Proving Grounds and those who will attend the camp this summer.

MILE RELAY LEAVES HARVARD FAR BEHIND

Technology Quartet Scores Fastest Time in
B. A. A. Games—Two-Mile Team Trails
Syracuse and Dartmouth Runners

INSTITUTE FRESHMEN TRIMMED BY HANOVERIANS

Harvard University's mile relay team received its annual beating by the Technology quartet at the B. A. A. games Saturday night, Captain Yard Chittick, anchor man, sprinting home at least fifty yards in the lead. Coach Frank Kanaly's speedy combination turned in the fastest mile of the evening being clocked in 3 minutes, 35 2-5 seconds. John Poole, Bill Smith, Bill Gurney and Captain Chittick were not pushed by the crimson runners and covered the twelve laps seven seconds slower than they did at Millrose Wednesday night. Trimming the entire B. A. A. field and still being seven ticks behind their record gives one an idea of the class of the Cardinal and Gray combination.

Two-Mile Team Loses

INTERESTING CUTS SHOWN IN CORPORATION XV MOVIES

"Speeding up the World's Work" and "Mimeographs and Mimeoscopes" were the pictures thrown on the screen by Corporation XV Friday afternoon in 5-330.

"Speeding up the World's Work" outlined some of the ancient ideas, methods of work, and modes of travel, and showed the improvements that have been made by science and invention. Some old cuts that were both interesting and curious were included in the picture. An old cut of Columbus was especially well received.

"Mimeographs and Mimeoscopes" showed the functionings and the work that can be accomplished by these machines with very little labor or thought.

"Book and Magazine Making" by Doubleday Page Company will be shown next week.

PROFESSOR WARNER WILL ENTERTAIN AERO SOCIETY

To See Actual Experiments Carried Out in Wind
Tunnel Thursday Night

ALTERATIONS COMPLETE

A series of experiments will be carried on in the Wind Tunnel, building 30-102, by Professor E. P. Warner and Mr. W. H. Miller, next Thursday night at 8 o'clock, for the entertainment of the Aero Society. Opportunity will be given the members to examine the construction of the Tunnel and inspect the changes that have been made. This is the first time that the society has had the privilege of witnessing any experiments of this character.

Since the past summer many alterations have been made to improve the Wind Tunnel which is 42 feet long and has a diameter of 4 feet. The average width of the models which are tested here is 18 inches. The propeller causing the air current is seven and a half feet in diameter and is driven by a 17 horse-power motor. Since the changes have been made there has been a considerable increase in the wind velocities which are now obtainable up to 68 miles an hour. The old tunnel was of square cross-section, but is now circular, with a taper and flare more gradual than before, thus reducing the friction of the side walls.

Second Largest Being Built

There is, however, in the process of construction by the Institute, in the same building, a wind tunnel of a superior type. This, when constructed, will be the fourth largest in the world and the second largest in the United States, there being one larger in this country, in England and in Germany. The new one is of the same type as the old but is much wider and longer and speeds up to 80 miles per hour can be obtained. The propeller on the new tunnel is 14 feet in diameter and is driven by a 100 horse-power motor. The Institute tunnels have been and will be used extensively for government testing.

PERMANENT TICKET BOOTH IS ESTABLISHED IN LOBBY

The T. A. C. has arranged to maintain a permanent ticket booth in the main lobby, according to C. F. Blanchard '22, for the sale of admission receipts to all athletic events in which the Institute plays a part. This booth is already established, with a man in charge at all hours to see that students are able to secure their tickets within reasonable time before the game.

The two-mile outfit led by Elmer Sanborn was decisively beaten by both Syracuse and Dartmouth in the triangular 24-lap affair. The freshman mile team lost to Dartmouth and trimmed H. C. and B. C. Ed Heap won his heat in the 40-yard dash, squeezing in ahead of Bernie Wefer, one of the favorites in the event. Ed also qualified in the semi-final grabbing second place. The company in final, including the flashy Loren Murchison, proved too fast for the Institute sprinter. Al Hayes won his heat in the 40, moving at a 5 1-5 second clip.

Russ Ambach came through mighty well in the 45-yard high hurdle contest qualifying for the semi-finals though in a heat with R. S. Whitney who won at Millrose. Russ has dandy form in clearing the barriers and will make a very capable Beaver representative. In the semi-finals Ambach was a little too anxious and got off before the gun. The yard penalty upset his calculations for reaching the first bar and kept him out of the finals. Ed Merrill reached 5 feet 9 inches in the high jump, which, with his handicap, gave him a standing of six feet.

Institute Speaks Up

The Technology cheering section was one of the features of the evening and furnished a satisfactorily noisy exhibition. The Institute cheers were the only ones of the evening and were a clear scoop. Harvard received a couple of yells from the Engineer section but that's about all she did get. The University had a very unfortunate evening being soundly trounced in the varsity mile, varsity two-mile and freshman mile relays.

Johnny Poole led off for the Beaver mile combination and followed Chute, of the crimson, for the first three-quarters. (Continued on Page 4)

EMPLOYMENT BUREAU STARTS CAMPAIGN FOR SUMMER WORK

The Undergraduate Employment Bureau connected with the T. C. A. starts its drive for summer employment this week. The bureau urges all persons knowing of a position which could be filled by a Technology undergraduate during the coming summer months to notify the headquarters in the outer office of the T. C. A., in the basement of Walker Memorial.

It is further suggested that men who obtained a position last summer through the agency of the bureau and are returning to it next summer be kind enough to report the fact. A great effort is to be made to place as many students as possible and the co-operation of both students and faculty is sought.

CALENDAR

Monday, February 6
12:00—Faculty Club lunch, north hall.
Tuesday, February 7
8:00—Course X-A dance, north hall.
8:00—Electrical Engineering and Radio Society meeting.
Wednesday, February 8
6:00—Dartmouth Club dinner, Faculty dining room.
7:30—Army Ordnance Association smoker, main hall, Walker.
Thursday, February 9
7:30—Chemical Society smoker, main hall.
8:00—Aero Society meeting, wind tunnel, building 30-102.
Friday, February 10
8:15—Tech Show Orchestra concert-dance, main hall.
Tuesday, February 14
8:00—Class of 1922 dance, main hall, Walker.
Thursday, February 16
7:30—Corporation XV smoker, north hall.
Tuesday, February 21
8:00—Dorm Dance, main hall, Walker.
Friday, February 24
8:00—California Club dance, main hall.
Tuesday, February 28
6:30—Class of 1895 dinner, Faculty dining room.