

## MUSICAL CLUBS GIVE CHRISTMAS CONCERT TONIGHT

Annual Technology Social Event  
is at Longwood Towers  
in Brookline

### DANCE FOLLOWS CONCERT

Feature Act is in Nature of  
a Surprise: Solos by  
James A. Yates

Technology's Musical Clubs will hold their annual Christmas Concert and Dance at Longwood Towers tonight. This concert has always been one of the foremost social events of the season at Technology, and the Clubs management promises that this year the event will be even better than formerly.

The concert will begin at 8 o'clock, and will be immediately followed by dancing until 2 o'clock. A varied program has been prepared, each of the clubs having several numbers to present. The Glee Club will feature James A. Yates G, who will sing the solo in the club's new number "Jerusalem."

The feature of the evening is to be a specialty act, which has been kept secret and is to be in the nature of a surprise. The management promises something well worth seeing.

Two other specialty acts will be a selection by the Saxophone Quintet, and a number by the Glee Club Quartet.

The Techonians will entertain with popular selections during the program, and will also furnish the music (Continued on Page 4)

## Discuss Aviation At Ground School

Lieutenant Thomas Speaks on  
Principles of Flying  
to Club Members

Lieutenant Reginald D. Thomas, a member of the staff of the Aeronautical Engineering Department, was the principal speaker at the joint meeting of the Flying Club and the Aeronautical Engineering Society yesterday afternoon in Room 33-418. The subject of his address was "Approaching the Airplane" and was the first to be delivered at the newly formed ground course meetings.

Lieutenant Thomas discussed the various inspections and necessary precautions before one is able to efficiently control a plane. Due to the fact that he is an instructor to the Naval Reserve officers in the first principles of flying, his discourse was of interest to those who are planning to operate an airplane some time in the future.

Next week Lieutenant Samuel G. Frierson of the Military Science Department will speak on "Problems of the Pilot" and will answer all questions that are submitted to him on the subject. After the Christmas vacation Benjamin S. Kelsey '28 of the Aeronautical Engineering Department will instruct the class in the actual work in the aircraft rigging laboratories.

## Freshman Use Names on Building to Advantage

Many freshmen have discovered that the names of great men which are carved out of the stone work of the buildings are quite an advantage in examinations. During a recent chemistry test when it was asked to state and name the law which determined the solubility of gases, a panoramic view across the Great Court brought into view the name of the sought-for individual, Henry. Perhaps in the future the law or formula which each man discovered will be inscribed below his name so that the Institute will be externally as well as internally instructive. It is certain that the students would welcome this source of inspiration.

## Manager of Musical Clubs' Activities



Donald R. Funk '29

## Mountaineering Is Faculty Club Lecture Subject

Climbing Equipment Exhibited—  
Moving Pictures Show  
Alpine Scenes

"Mountaineering in the Dauphine Alps" was the title of an illustrated lecture given before the Faculty Club at a special dinner meeting Tuesday evening. The speaker was Professor Dean Peabody, Jr. '10, Associate Professor in the Department of Mechanical Engineering, who has had considerable experience in mountain climbing. Prof. Peabody last summer conducted an Appalachian Mountain Club party through the Dauphine Alps in southeastern France and Switzerland, and it is this trip which formed the subject of his lecture.

Moving pictures and stereopticon slides assisted in graphically portraying the experiences and thrills incidental to the expedition. Ascents were made of the Grepon, the Matterhorn, and the Meije, starting from various points in France and Switzerland. The story of the Meije ascent was told in detail, and was illustrated by moving pictures. An interesting feature of the lecture was the exhibition of a complete mountain-climbing equipment, including the small packs carried, the long ropes, the thick shoes, and heavy clothing. The dinner and subsequent lecture was attended by about 75 members of the faculty.

## Professor Smith Will Discuss Gases at First Popular Science Lecture

Effects of Carbon Monoxide to  
Be Shown in Moving  
Pictures

Four Popular Science Lectures have been arranged by the Society of Arts at the Institute, one to be given each month for four months. The first lecture will be delivered by Professor H. Monmouth Smith of the Chemistry Department on the subject of "Gases," in Room 10-250 at 4 o'clock today, at 2:30 o'clock tomorrow and at 4 o'clock on Sunday.

High school students are invited to attend the lecture given today or tomorrow. The lecture Sunday is open to the public. Admission is by ticket until five minutes before each lecture. Common gases and their uses will be discussed by Professor Smith. The uses devised for the rare gases of the air such as argon, neon, and helium will be given. The history of laughing gas is another topic which will be discussed.

Fruit ripened in ethylene will be exhibited. Professor Smith has several green oranges and bananas which have been ripened in this substance which he will compare

## WALKER D. HINES DELIVERS FIRST ALDRED LECTURE

Explains Work of Cotton-Textile  
Institute in Providing  
Statistics

### DESCRIBES DISTRIBUTION

Mills' Tendency to Over-Produce  
Leads to Unstability of  
Cotton Market

"Extension of the opportunities for increasing the production of the cotton textile industries is one of the objects of the Cotton-Textile Institute of New York," stated Mr. Walker D. Hines, president of the organization at the first of the Aldred Lectures yesterday afternoon.

Mr. Hines explained that the Cotton-Textile Institute was founded to encourage the textile industry to keep adequate statistics on production and sales and to obtain sound knowledge on the trends of supply and demand. By means of the organized study that the Institute makes, it is possible to keep the industry on a more stable basis.

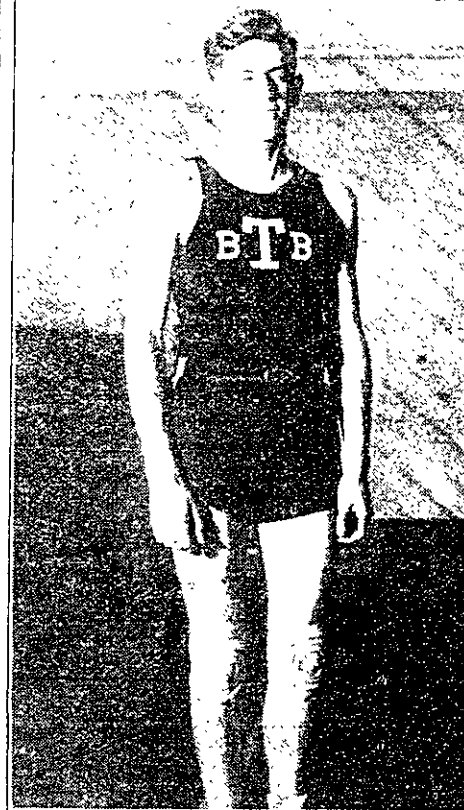
As the industry is learning the value of the work of the Cotton-Textile Institute, increased use is being made of the facilities offered. The mills have given increased attention to statistics of production and stocks, and have been increasingly alert to the relationship of production to demand. "There seems to be an irresistible urge for the mills to produce up to capacity as greater production tends to reduce the cost per unit. With this over-production comes a demoralizing of prices and an unstable market," said Mr. Hines.

"One of the chief problems of any industry is distribution and it is primarily with this problem that the Institute deals," explained Mr. Hines in describing his phase of the work. After the goods are made at the mills they are sent to the converters who dye and prepare the goods for the market. Often the converter does not do this work but employs a third member known as a finisher. The converter then sells to the wholesale or retail dealer. Some mills prefer to sell direct through the medium of a broker. The system is often further complicated by the fact that a commission house or selling agent comes in between the mill and the converter.

With so many steps intervening between the producer and the ultimate consumer, numerous mistakes are possible. One of the works of the Institute is the elimination of the

(Continued on Page 4)

## To Lead Varsity in Tilt With Sailors



Bernard B. Brockleman '29

## Recommendations For Soccer Team Are Decided Upon

A.A. Executive Council Awards  
Numerals to Freshman  
Soccer Team

Recommendations for the automatic award of the aTf to the members of the Soccer Team were decided upon at the meeting of the Executive Council of the Athletic Association held in Walker at 5 o'clock on Monday.

Members of the Soccer Team who are to be recommended to the Advisory Council are as follows: George F. Wyman '30, Edgar M. Hawkins, Jr. '30, Theodore A. Riehl '30, Teh S. Kim '29, Joseph P. Fahey '29 (Captain) Sukshom Kashemsanta '31, Ronald L. Youngson '30, Wichian Viulayamonkal '31, Ludwig C. Hoffman '30, Wilfred J. Danziger '29, Camilo M. Gutierrez '31, and Irving F. Delahanty Unc.

James A. Merrill '30 will be recommended for the discretionary award of the aTf.

It was passed that the following members of the freshman Soccer Team be awarded their numerals: Nicolas G. Velez, Manilio G. Fragiocomo, Norman D. Schulze, Chamras Chayabongse, German L. Gaston, J. B. Bollese, Robert B. Axford, Eric P. Newman, Chung C. Lieu, Rodney D. Chipp, R. H. Houser, Eric Sparre, and Martin T. Meyer, (Manager).

A motion was passed that Francis S. Walker '30 be recommended for the award of aTf as manager of the Soccer Team and James B. Holden '30 for the award of aTa as manager of Cross Country Team season of 1928-29.

## THETA TAU SMOKER GIVEN LAST NIGHT

Fifteen Men to be Taken in  
at Next Election Are  
Entertained

Last night Theta Tau, the Professional Engineering Fraternity, held a smoker in Walker Memorial for the fifteen Juniors to be taken in at the next election. About thirty men in all were present. Beside some informal talks by the officers of the society Professor Edward F. Miller, head of the department of Mechanical Engineering, told of his experiences during the war. This past-master in the art of story telling kept the men interested and enthused from the moment he began till he concluded his account. After refreshments had been served the affair broke up.

## VARSITY QUINTET TACKLES NEWPORT GOBS TOMORROW

Yearlings Encounter Wentworth  
Institute as Preliminary  
to Varsity Game

### LINE-UPS ARE ANNOUNCED

Navy Men Are Runners-Up in  
Rhode Island Amateur  
Championships

Facing one of the hardest opponents one th's year's schedule, the Varsity basketball team will meet the Newport Naval Training Station's quintet in the Hangar Gym tomorrow night. Last year this team was the runner up in the Rhode Island State amateur championship. As a forerunner to the Varsity game the freshmen will meet Wentworth Institute, the game starting at 7:00 o'clock.

Coach McCarthy put the Varsity through a rigorous workout last night, the last one before the game, and spent considerable time in free throw shooting. The team has improved considerably during the past week and ought to be in good shape by the time opening whistle blows. The team will be given a complete rest today as McCarthy thinks they are in good enough form without any extra work on Saturday.

### Tentative Line-up Announced

Brockleman leads the list of the Varsity men expected to play tomorrow. Lawson, Motter, and McDowell will alternate at guard while Bates, Coffey, Nelson, and Allen will (Continued on Page 4)

## Tech Show Begins Cast Rehearsals

Coach Matthews to Hold Chorus  
Trials for New Men

Announcement has been made by Tech Show 1929 that there will be another chorus try-out next Tuesday evening, the time and place to be announced in the next issue of THE TECH. These try-outs will be open exclusively to men who have had no previous connection with the show. Owing to the pre-Christmas rush, the trials will be short.

Although the number reporting for the cast and chorus has not been great, a large part of both have been chosen. Rehearsals of the cast were held Tuesday, Wednesday, and Thursday evenings. From the first of these it has been evident that considerable intensive training will be necessary before the skits can have the desired effect.

Tech Show 1929 wishes to thank the following men for their fine efforts in connection with the skits that have been written: William C. Adelson '31, Marcel P. Aillery '31, John M. Cleveland '31, Chauncey C. Day '32, Robert A. Fuller '32, Jerome B. Geisman '29, Virgil W. McDaniel '29, Harold C. Pease '29, Charles E. Richeimer '29, Hunter Rouse '29, Elwood W. Schafer '32, William B. Schneider '31, and Willard J. Slagle '29.

## THE TECH Will Publish Midyear Exam Schedule

Next Wednesday's issue of THE TECH will announce the news, good or bad, of the final examination schedule for the first term. A complete schedule of the examinations of every class and the place and time in which they are to be taken will be printed.

Registrar Joseph C. MacKinnon '13, announced yesterday that the proofs for the schedule were being corrected and would be ready for publication next week. The schedule sheets will not be available to the students until after the Christmas vacation, but a copy of the corrected schedule will appear in THE TECH on Wednesday.

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THE CAT THAT WALKED BY ITSELF

Unlike our colleague's hacking phrases for our tri-weekly, we do not give our approval with the reservation that this year's Circus be a real "circus" and not a brawl. We harbor the renegade notion that the "brawl" element is the best part of the Circus.

SUCH is the stand taken in its political columns by "Voo Doo," humorous publication of the Massachusetts Institute of Technology. Possibly the stand is quite justifiable from the viewpoint of an unassailable staff and board hurling pies from an armory balcony. Possibly a refined sense of humor might take delight in promoting a circus that can but be abolished again by the Institute Committee after a term of sincere effort to establish a custom that may be looked upon with respect and pride.

There may be recalled by those of us who have experienced a Circus or so here at Technology a few of the incidents that led to the edict of abolition by the Institute Committee of two years ago. Similar previous affairs, perhaps because of their novelty, offered all in the way of enthusiasm, originality, and success that even the most optimistic might hope for. The third was as complete a flop from all but "Voo Doo's" standpoint as a brawl could be. It was frowned upon by the student body; it was discontinued by the undergraduate government; it was decried by the fraternities; one of the most regrettable incidents since the last outcropping of the primeval mob spirit.

Last year one publication stood alone for the resumption of the annual Circus. And the Circus was not resumed. The students had had enough of a bad thing; supersaturation was the least they desired.

Yet this year finds an entirely different situation. But two classes have participated in a Circus; two years have given us time to develop the hope that brawls are a thing of the past, and to crave again the sport of those first two affairs. The Institute Committee has investigated student sentiment as it now exists, and finds that the majority are eager to try once again to promote a "real" Circus, but have no desire whatsoever to repeat the failure of the last. At the Interfraternity Conference meeting the past Tuesday twelve out of twenty were willing to participate again, provided that the affair be properly managed and conducted in a way that could obviate former occurrences. It is quite likely that the other eight would have assented had they been assured that this year would see a complete change from the "brawl" spirit.

This attitude of the fraternities, backed as it is by the sentiment and efforts of the Institute Committee is entirely typical of that prevalent throughout M.I.T. Any suggestions to "sing out for a wild and wooly brawl of a Circus" should be as fruitless as grass seed on the Technology parking grounds. If the students want a Circus that will be a pleasurable remembrance, it is plain that they cannot develop one by following a false lead.

What the cause needs most is some original thought by the activities who intend to participate. True, "every hick has seen a Barnum show" and "the novelties of past Tech Circuses lay in the unexpected". Yet there is far more of the unexpected that can come from ingenuity and hard work than from the emulation of certain passe movie comedians. What the cause needs least is further "renegade notions".

NEW AVIATION BOOK RECENTLY PUBLISHED

Associate Professors of M.I.T. Explain Modern Flying

"The Airplane and Its Engine" is the title of a new book recently written by Charles H. Chatfield '14 and Charles F. Taylor, both associate professors in Aeronautical Engineering at the Institute. The authors do not prophesy the future of aviation nor do they attempt to give a history of

flying, but present a description of the principles involved in the heavier-than-air flying machine of 1928.

An explanation of the physics involved in the airplane motor and of the modern internal combustion that takes place in order to make flying possible is the real purpose of the book. The chapter on airplane manoeuvres, containing explanations of how the take-off, landing, loop, upside-down flying and other common feats of the trained aviators are done, is of interest to those who have little idea of the actual use of the airplane controls.



Once a year comes a series of Al-dred lectures, the philanthropic gift of a man keenly interested in Technology, and once a year the Seniors, Graduate students and members of the instructing staff are privileged to listen to a series of talks by representative successful men, on subjects of definite interest to young men soon to go out into the world of engineering and business. Why is it, the Lounger asks his perturbed spirit, that the few interested enough to attend these lectures must necessarily include half a dozen victims of that horrible affliction, sleeping-sickness. Once more have we upheld our good name, and another lecturer has departed to bear witness to the kind attention Technology bestows upon its visiting lecturers.

"Motorists—Spare Our Children" reads the new sign, and all are left to conjecture whether a Harvard man or the Cambridge Police Department is to blame for this latest campus beautification. What—you haven't seen it? Well, drop your books and run out to number 33 Massachusetts Avenue. Perhaps we can now expect a Boy Scout patrol to conduct us safely across the street.

"Where's the airplane?" breathlessly inquired The Lounger one recent mid-day as he detected all masculine eyes directed heavenwards outside the entrance to Building two. While The Lounger thinks of it, just a stairway reminder to the coeds that stairway landings are no place to hold court, at least not in this glass-enclosed factory of ours.

As We Like It

THE KINGDOM OF GOD

Lurid scenes, maudlin situations and throbbing climaxes are conspicuously absent in a beautiful play at the Wilbur starring Ethel Barrymore. In their place we have the high-minded and pure (how strangely connotative those words are today) Sister Gracia (Miss Barrymore) whose simple and refreshing presence fills the "Kingdom of God."

The first act takes place in an asylum for poor old men where Sister Gracia has given her voluntary service under an optional agreement to help alleviate the sufferings and lighten the last few moments of their lives of these discarded bits of humanity. She interrupts, as the curtain rises, a harrangue delivered by the asylum's anarchist to the erstwhile capitalist Gabriel, possessor of one whole peseta. With the entrance of the Superior, whom Trojano, anarchist by philosophical persuasion, derisively calls the "lady bishop," his bluster and facile expostulation rapidly disappear and he trots off with the heavy burden of his thoughts and a bushel of potatoes. The very excellent Trojano is the labor of Harry Plumer. Liborio, another helpless unfortunate who hails from the isle of Cuba which he imagines has sunk into the ocean, is played by William B. Mack and is remarkably well acted. Space does not permit further commendation.

From the mellowness of the first act, the second opens up on a scene in a maternity home for unmarried

Spain to be Host at International Expositions of Arts and Industries

Mammoth Displays at Barcelona and Sevilla Opened to Public in 1929

Student globe trotters have a new experience to look forward to in 1929—an experience at once pleasurable and profitable. Spain, land of sunshine and flowers, castles and color, legend and romance; Spain, once Queen of the Seas and supreme among nations; Spain whose galleons and gold, grandeur and pomp once were the envy of the civilized world is making a new bid for leadership in arts, industry and commerce. All roads will lead to Spain in 1929.

The world which has heard little recently of the land of Castile and Aragon will again visit her Mediterranean shores, enjoy her hospitality, her blue skies and her Latin beauty. In the gay and lovely city of Sevilla, and in Barcelona, industrial and commercial capital of Spain, will be staged two great International Exhibitions of Art, Athletics, Industry and Commerce under the auspices of H. M. the King, Don Alfonso XIII. In the wide halls and golden galleries of splendid palaces of marble and colored tile—legacy of the Arabs and the Moors—will be displayed the artistic effort and scientific genius of world peoples.

In significance and magnitude the Exhibitions represent the most important economic events staged since the World War. Nearly seventy-five million dollars has been set aside by the Government and by Spain's leading industrialists to the success of the venture for which plans have been under way ten years. Sevilla will particularly emphasize arts, while Barcelona—city of merchants—will stress the Industrial. In the great Industrial zone, business men from all over the world will display their products, America being an important contributor. Considerable emphasis will be given to the application of science to industrial ends.

Sports of the world will be featured in international contents in the immense Exhibition Stadium, while everything relating to the educational, technical, and commercial aspects of

expectant mothers, a grim place in contrast to the cheerful old men's home where Sister Gracia happily labored in making others happy. The tragedy of the situation—the delicate sister among hardened women—is lightened only by the whore Zuica, who was so appreciative of the care given to such cases in the home that she was making her fourth visit there to deliver herself of another offspring. Such immoral levity, and on a Boston stage,—Boston must be progressing.

Finally, Sister Gracia, now a Superior of many years, is in an orphan's home which, to our understanding, is so carefully wrought by the author that we forget to be surprised at the reality of it all. The girl who dreamt of being an actress and her friend who dreamt of epicurean happiness, the tailor beating the orphan boy, the love affair in the orphanage and numerous other situations are so splendidly combined in the atmosphere of shining copper utensils over a huge stove that one marvels at it in retrospect.

This, briefly, is the "Kingdom of God" in whose empire the pure Sister Gracia gives her devotion and spends her days.

the Sporting World will be gathered together in the Sports Pavilion in Barcelona.

A Greek Theater built in accordance with pure classic art in a quarry of great antiquity, cut from stone of fiery colors will present dramas of another day. Spanish festivals will be celebrated in Sevilla with all the gorgeous pageantry and colorful splendor which is Spain. A luminous fountain, more colossal than the famous fountain of Versailles, will rain a glittering shower of stars in the Plaza Espanol.

NAME SCHOOL FOR FIRST PRESIDENT

Latest Tribute Paid to William Barton Rogers by Boston School Committee

William Barton Rogers, first president of Technology, has been honored many times and in many ways, but the latest tribute comes from the Boston School Committee in the naming of an intermediate school in Hyde Park the "William Barton Rogers Intermediate School."

Dr. Rogers was born in Philadelphia on December 7, 1804. His father was Dr. Patrick Rogers, an Irish patriot, who became one of America's most famous physicians, scientists, and university professors. Dr. Rogers and three of his brothers soon became so well known that they were called the "Famous Brothers Rogers."

Dr. Rogers served for seven years as professor of Chemistry and Philosophy at William and Mary College and then took the chair of Natural Philosophy at the University of Virginia in 1835. He had planned to found a polytechnical school in Boston with his brother Henry since 1848 and consequently he began to put his plans into effect immediately upon his coming to Boston in 1855.

It was a difficult task to interest anyone in the founding of such a new enterprise as this. Dr. Rogers finally succeeded in obtaining the approval of the Legislature and Governor Andrews and the Act of Incorporation was passed in 1861. Dr. Rogers became the first president of the Institute in 1865 and served until 1870 when he retired, due to ill health. He became president again in 1878 but was forced to retire in 1881. He was stricken in 1882 while addressing the commencement exercises and died soon after.

INTERCOLLEGIATE

At the University of Miami, a new type of classroom has been instituted for the zoology classes. Students in this subject don bathing suits and diver's helmets and descend to the bottom of the Atlantic to carry on their study of the fauna and flora of the ocean.

No longer content to compete on the ground and water, Oxford and Cambridge Universities are planning a new form of competition. Both schools are much interested in aviation, so much so in fact that annual flying contests between the air squadrons have been arranged.

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# BEAVERS TROUNCED BY CRIMSON SEXTET

## Harvard Team Is Too Powerful For M.I.T. Puckmen

Riley and Crosby Are Engineers' Mainstays in Wednesday's Game—Score 9-1

Facing a powerful Harvard aggregation of puck chasers that bids fair to retain its Intercollegiate Championship honors of last year, the Technology hockey team took a severe beating at the hands of its old rivals in the Boston Garden Wednesday night. The outcome of the game was never in doubt, Harvard outclassing the Engineers in every department of the game. The final score was 9-1, Crosby scoring the Cardinal and Gray's lone goal in the second period during the time that Harvard was forced to play with two men off the ice, due to penalties.

Harvard showed itself to be well fortified with substitutes using a total of 17 players during the game. Three of the Crimson tallies came in the first period, five in the second, and one in the third. There was no individual star on the Harvard squad although Giddens, right wing, was the high point scorer for the evening.

The Engineers put up a game fight and were never lacking in aggressiveness in spite of the one-sided score. However they showed that they have not as yet struck their stride in passing and general offensive play. With the rest of the week in which to practice and remedy their weaknesses, the Varsity should be able to regain their confidence and put up a stiff fight against Norwich whom they are scheduled to play next Monday at the Garden.

Phil Riley by the way did a good job of goal tending against Harvard, making some seemingly impossible stops. Throughout the game he stopped no less than 27 shots, a remarkably high number for one game. The lineups were as follows:

Peene, r.w. . . . . r.w. Giddens  
Crosby, l.w. . . . . l.w. Tudor (capt.)  
White (capt) c. . . . . c. Holbrook  
Cullinan r.d. . . . . r.d. H. Bigelow  
Lacy l.d. . . . . l.d. A. Bigelow  
Riley g. . . . . g. Newell  
Substitutes:  
M. I. T. (Mead, Ford, Hazeltine, Fahy, Donahue.)  
Harvard (Lakin, Pruyn, Garrison, Everett, Cross, Watts, Covel, Stanley, Shearer, Elkins, Jackson.)

## RIFLEMEN WIN FROM CADETS IN OPENER

Opening the 1928-1929 rifle season with a victory over the First Corps of Cadets team in a shoulder-to-shoulder match Tuesday night, the M. I. T. Varsity Rifle Combination showed promise of shooting its way to another New England Championship. Firing the prone and standing positions, the Cadets suffered defeat to the tune of 858 to 737 out of a possible score of 1000.

Each man fired from both the prone and standing positions with possible scores of 100 in each position. The Engineers' intensive practice in standing position during the past week was evidenced by the number of high targets turned in. Captain Reddig of M. I. T. was high man of the match, handing in a score of 174. The other Technology men whose scores counted were Kohler and Clark, each with a score of 172; Twarogowski 171; and Loomis 169.

## Juniors Triumph In Swimming Meet

Varsity Leader Breaks Institute Record for One Hundred Yard Backstroke

Winning the sixth Annual Inter-class Swimming Meet, held at the University Club on Wednesday afternoon, was an easy task for the Juniors. As a result, the Class of 1930 is now the proud possessor of the Brookline Swimming Club Trophy, presented to the Institute in 1923. Wednesday's was one of the most successful pre-season meets in the history of swimming at the Institute, and was run off in record style by a group of officials prominent in the tank sport.

Freshmen Show Much Promise  
Torchio, Jarosh, Birnbaum, and Appleton were the most prominent factors in the Junior victory. These men

amassed a total of 37 points, seven points ahead of the Sophomores, who placed second in the meet. Lutz, H. Holst, McMinn, and Lykes starred for the Class of '31. The last-named had very little difficulty in capturing the diving events, running up twice as many points as his nearest competitor. The freshmen showed up very well, considering the fact that this was their first collegiate competition. Led by Levinson, Carleton, Sparre, Henderson, Rinehimer, and W. Holst.

the frosh placed third with a score of 25½ points. All of the above-named freshmen showed good form (Continued on Page 4)



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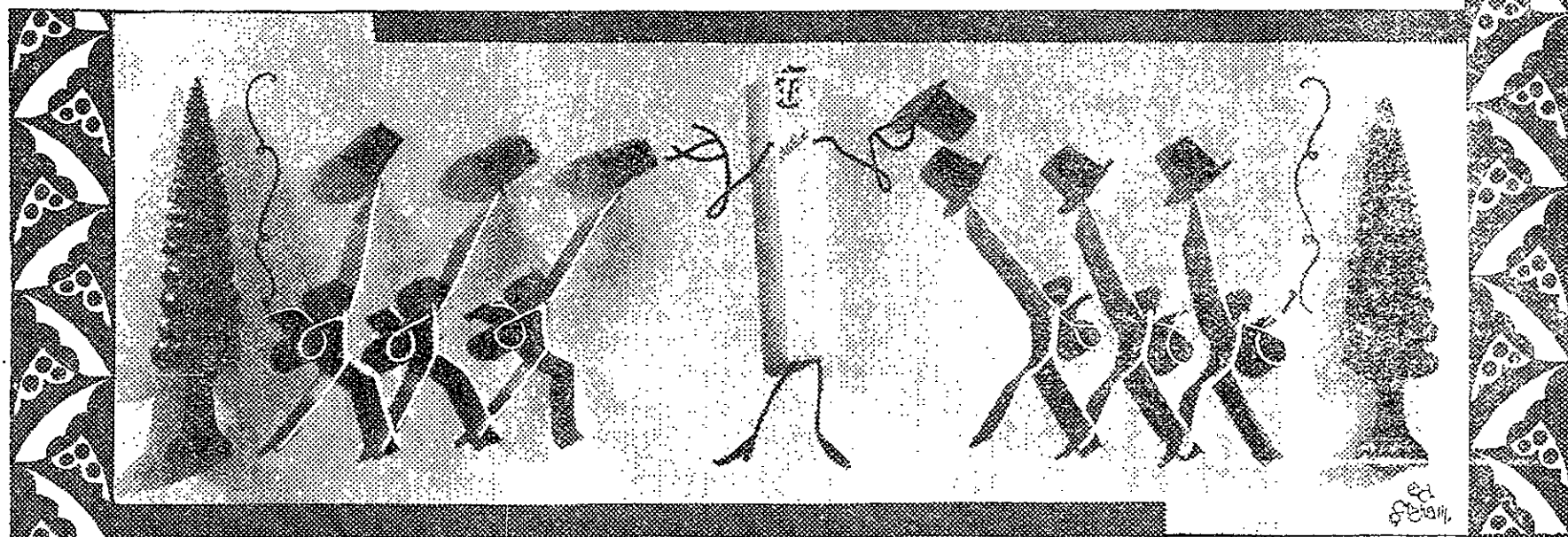
We have a large assortment of Christmas cards with the seal of the institute on same. Prices are 5-8-10-15 and 25c each. The Engineers Christmas card has the Beaver and the M.I.T. seal; these are 15c each.

Greetings from M.I.T. with illumination night picture of the main building 15c each.

Now is the time to order your Personal Christmas Greeting Cards, either engraved or printed, to avoid disappointment in selection or delivery.

TECHNOLOGY BRANCH, H. C. S.  
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We thank you.

*P. Lorillard Company*  
INCORPORATED

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Would be Interested!

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## OFFICIAL BULLETIN

### FACULTY CLUB

Lecture in Walker Memorial, Faculty Dining Room, by:

**Mr. Henry M. Crane**

Technical Assistant to the President of the General Motors Corporation

December 14, 12 M.

Subject: "The Future of the Automobile Industry."

### MOTION PICTURES—PROVINCE OF ONTARIO, CANADA

Special showing of Films Through the courtesy of the Provincial Government  
Forest Fire Fighting Niagara Falls in Winter  
Air Patrol Vacation Scenes

Tuesday, December 18, 4-5 P.M.  
Room 10-250

Members of The Staff and All Students invited.

### SOCIETY OF ARTS

Popular Experimental Science Lecture by:

**Professor H. Monmouth Smith**

Department of Chemistry

Sunday, December 16, at 4 P.M.

Subject: "Some Gases, Useful and Harmful."

## CALENDAR

### Friday, December 14

4:00—Popular Science Lecture, Room 10-250.  
8:30—Musical Clubs Concert and Dance, Longwood Towers, Brookline.

### Saturday, December 15

2:30—Popular Science Lecture, Room 10-250.  
3:00—T. C. A. and T. E. N. Tea Dance, North Hall.  
8:00—M. I. T. Armenian Club Dance, North Hall.  
8:15—Dramashop presentation of "The Show-Off," Common Room, Rogers.

### Sunday, December 16

4:00—Popular Science Lecture, Room 10-250.

### Tuesday, December 18

7:00—Tech Show Chorus Trials, North Hall.

### Wednesday, December 19

7:00—Mathematical Seminar, Faculty Dining Room.  
6:00—Alpha Chi Sigma Supper Meeting, North Hall.

## JUNIOR CLASS WINS IN SWIMMING MEET

Freshmen Show Good Material—Sophes Take Second Place

(Continued on Page 3)

in their events. Levinson was beaten in the 100 yd. backstroke only by Captain Luey and Jarosh, both seasoned tankmen. A great deal should be heard from the yearlings in future meets.

### Luey Breaks Record

The sensation of the evening was caused by Captain Luey of the Varsity, who beat Jarosh by three yards

in the 100 yd. backstroke, and broke the Institute record of 1 min. 14 sec. for this event. Luey's time was 1 min. 13 2-5 sec., three-fifths of a second better than Jarosh's former record. Not content with this, the lone Senior also won first places in the 50 yd. dash and 440 yd. swim, gaining a total of 15 points for himself and the Class of 1929.

In the four-forty, Luey forged ahead of Jarosh in the last ten yards to win by a foot, after trailing for seventeen laps. The final event, the 200 yd. relay, was taken by the frosh, who once again showed their heels to the Sophs by touching the finish less than a foot ahead of their rivals.

Coaches Russell Dean and Sherwood Brown were well-pleased with the form showed by all the contestants, and predict a successful season ahead for the Engineer natators.

### The summary:

Medley relay race—Won by Juniors (Birbaum, Torchio, Jarosh); second, freshmen (MacMinn, H. Holst, Baker); third, Sophomores (Levinson, W. Holst, Rinchimer). Time—3m. 46s.

Fifty-yard dash—Won by Luey '29; second, Carlton '32; third, Torchio '30; fourth, Proulx '32. Time—26 3-5s.

Four hundred and forty-yard swim—Won by Luey '29; second, Jarosh '30; third, Lutz '31; fourth, Seales '30. Time—6m. 6 4-5s.

Three hundred-yard medley race—Won by Appleton '30; second, H. Holtz '31; third, MacMinn '31; fourth, Brown '29. Time—3m. 55s.

One hundred-yard backstroke—Won by Luey '29; second, Jarosh '30; third, Levinson '32; fourth, Beckett '32. Time—1m. 13 2-5s. (New school record.)

One hundred-yard dash—Won by Lutz '31; second, Torchio '30; third, Rinchimer '30; fourth, Baker '31. Time—1m. 4-5s.

Two hundred-yard breaststroke—Won by Birbaum '30; second, Appleton '30; third, the between H. Holtz '31 and W. Holtz '32. Time—2m. 59 3-5s.

Two hundred-yard relay—Won by freshmen (Proulx, Rinchimer, Carlton, Sparree); second, sophomores (Baker, Eaton, Wilkinson, Lutz); third Juniors (Poisson, Appleton, Jarosh, Torchio); fourth, Seniors (Luey, Brown, Jack, Hess). Time—1m. 54 4-5s.

Diving—Won by Lyles '31; second, MacMinn '31; third, Henderson '32; fourth, Lister '30.

## EACH SENIOR MUST CHOOSE HIS PICTURE

Extra Copies May be Ordered from White Studio

Seniors are requested to visit the young man who will be in Room 11-004 until after Tuesday in order to make their selection of the picture they want for Technique. He will be here at the Institute as sales representative of the White Studio, the firm which has had this year's contract for pictures, to take orders for whatever pictures the Seniors may want to buy. The rates will be \$6 a dozen, or \$4 a half-dozen, and up. Separate prints of the group pictures may be secured at fifty cents each. These will be in the Technique office.

Most important, however, is the prompt selection by each Senior of the picture he wants placed in the

## Both Varsity and Freshman Fives Play This Week

Varsity Plays Newport Sailors While Yearlings Meet Wentworth Quintet

(Continued from Page 1)

take care of the Cardinal and Gray's offense. The injury to Lawson's hip which kept him out of Monday's practice has completely disappeared.

Captain Edwards, a left forward and the only veteran on the sailors' team, leads the list of the Newport men who are starting tomorrow's game. He is an all around athlete having been one of the stars in the football game against the All-Marines held in Washington for the President's cup. The other men who will start are: Haley, left forward; Eberhardt, center; Kahler, right guard; and Ackert, left guard.

### Freshman Line-up Announced

For the past couple of days the freshman team has been put through some strenuous workouts and look a good deal better than they did against the Terriers. The line-up for the Wentworth Institute game will be pretty much the same as that of the Boston University game with the exception of Rickard who will play guard. The complete line-up is as follows: Paul and Rash at forward, Ross, center, and Rickard and Sears doing the guarding. Several men have recently straightened out conflicts due to ineligibility and will provide the Beaver yearlings an ample supply of reserves.

Wentworth Institute was handed a 50 to 28 setback at the hands of the Boston University evening division's five last Wednesday evening. The Terriers outplayed the Wentworth's most treacherous man as the merit of the game. The Engineer yearlings should come through this contest with a victory as Wentworth appears to be one of the weakest fives around Boston.

Downing, a left forward, is Wentworth's most treacherous man as he made three field goals and three free throws in the game with the B. U. Nighthawks. Taylor and Townsend, right and left guards respectively, are fast men and good at basket-shooting. De Mille, the Wentworth center, also ran up a pretty good record in the Terriers game. These five men are the ones most likely to start Saturday's game, although Wentworth has an ample number of substitutes to draw from.

## DEBATERS PREPARE FOR COMING MEETS

Freshman Team Still Has Places Open to New Candidates

Varsity and freshman debating teams are being organized again this year under the direction of Professor Dean Fuller. Debates are now being scheduled with the other eastern colleges for the beginning of the year and for the vacation between terms.

The proposition which is to be debated is: Resolved: "That the public should retain the ownership of, and develop the principal sources of hydro-electric power in the United States." Both the Varsity and freshman teams will study this question and will probably attack the problem in a purely scientific way.

There are still places open on the team of '32 and any freshmen who are interested should call at Room 2-178 to receive further details. The first year men will go to Brown, Princeton, and other colleges to which trips are being arranged.

Paul V. Keyser, Jr. '29, Sol Horwitz '29, and James G. Muir '30, who were on the team last year, will probably compose part of this year's Varsity debating team. William Adelson '31, is the manager and Professor Dean Fuller is the coach.

The trip south which the Varsity will make between terms will include meetings with Lafayette, William and Mary, George Washington University, and University of Virginia.

yearbook. If, after December 13, the choice has not been made, the Technique staff reserves the right to make the selection.

It is considered rather remarkable, that, in spite of all the notices and announcements of the necessity for having the Senior pictures taken during the time which was available, only about 75 per cent of the men reported to be photographed. Further notices concerning this matter will be posted.

## Walker D. Hines Delivers Lecture

Speaker Explains Operations Of Cotton-Textile Institute Of New York

(Continued from Page 1)

mistakes and the simplification of the distribution processes.

In speaking of the value of statistics, Mr. Hines described the work in this field and explained how the great mass of information gathered had been made available to the industry in general. In addition to this work, the Cotton-Textile Institute holds frequent conferences and general meetings at which textile manufacturers are given the opportunity to talk over their common problems and interchange ideas.

Approximately 150 were present at the lecture which was open to graduate students and faculty. This is the first of this year's series of Aldred Lectures.

## BIOLOGICAL SOCIETY HEARS BOOK REVIEW

"Heredity and Human Affairs" Discussed Wednesday

Professor Murray P. Horwood '16 of the Biology and Public Health Department at Technology addressed the Sedgwick Biological Society in the Emma Rogers Room, Wednesday at 7:30 o'clock on the book, "Heredity and Human Affairs." There were about forty persons present including some of the faculty.

Professor Horwood assumed the attitude of Professor Edward M. East of Harvard, the writer of the book. He stated that there usually is a limit to the development of one's character which is determined by heredity, and showed that what one inherits in characteristics from previous generations is all one has to build his individuality.

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Mats. Th. Sat. 2:15  
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Opening Christmas Day Mat.  
ALICE IN WONDERLAND

## CHRISTMAS CONCERT AT LONGWOOD TOWERS

Saxophone Quintet and Glee Club in Specialty Act

(Continued from Page 1)

for dancing.

Longwood Towers, with its large ballroom and attractive lounges, furnishes an excellent place for the concert, and is expected to meet with the approval of all those in attendance. Tickets may be secured for the last time today in the Main Lobby between 12 and 2 o'clock, or at the door tonight.

The program is to be as follows:

- I (a) March Thunder and Blazes Fusik
- (b) Four Indian Love Lyrics Wood-Finden
- INSTRUMENTAL CLUB
- II (a) Rise, Sleep No More Stewart
- (b) Subian Folk Song Brahma
- GLEE CLUB
- III Popular Selections
- BANJO CLUB
- VI Specialty Act
- Saxophone Quintet with Glee Quartet
- V (a) Selections from Martha Flotow
- (b) Haunting Humoreske Dvorak
- INSTRUMENTAL CLUB
- VI (a) Jerusalem Parry
- (b) Song of the Lumbermen Holst
- GLEE CLUB
- VII Popular Selections
- BANJO CLUB
- VIII Specialty Act Surprise
- IX Popular Selections
- TECHTONIANS
- X (a) Take Me Back to Tech Littlefield '95
- (b) Stein Song Bullard '87

It has been declared that the weakness of the honor system at Stanford is due to student cynicism. This system has been gradually declining in the past but the question of whether or not it will be abolished rests entirely with the students and their future conduct in relation to the matter.

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**17 say "Merry Xmas" with same Gift**

Larus & Bro. Co. Richmond, Va.

Dear Sirs: I happen to be blest with a host of very fine friends, mostly "highbrows"—professors, scientists, et. Generally at Christmas time they show their remembrance and all that with some little gift—a box of cigars, fishing tackle, a book—all that sort of thing. Well, this Christmas many seemed to centre on tobacco. Now, mark you, these fellows have no communication with each other. They live in widely separated parts of the country, so it was no "put-up" joke on me or anything like that. But here came seventeen boxes of tobacco, and sixteen of them the familiar blue "Edgeworth!" The seventeenth was a very flossy walnut, brass-trimmed box, but if I know tobacco, the contents were Edgeworth with a little perique in it. Just coincidence, perhaps, but a queer one. Am not an habitual smoker of Edgeworth, so they weren't catering to any special taste of mine. Looks like a consensus of opinion among the "highbrows"—or quite a batch of 'em—that Edgeworth is the stuff, the proper caper for a gift.

Sincerely yours,  
F. A. Fitzpatrick  
**Edgeworth**  
Extra High Grade Smoking Tobacco