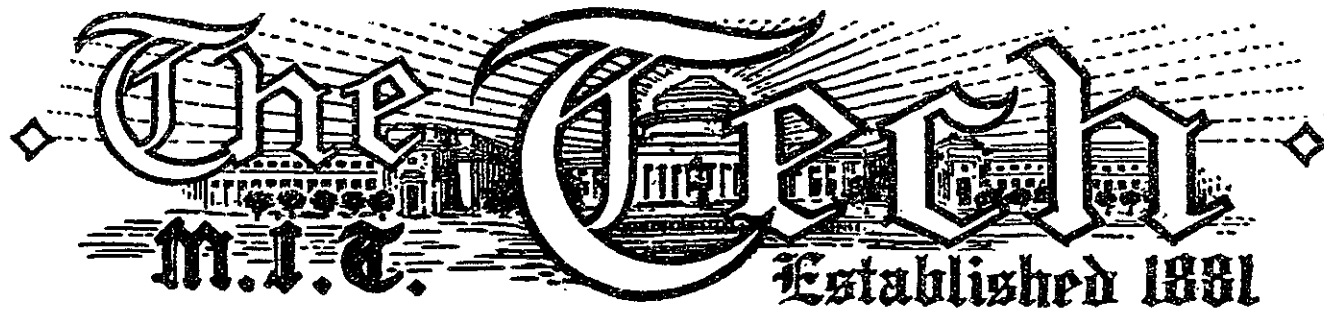


THE TECH Wishes All It's Readers A Merry Christmas

A Record of
Continuous News Service
For 47 Years



Official
Undergraduate News Organ
of M. I. T.

Vol. XLVIII—No. 82

CAMBRIDGE, MASS., FRIDAY, DECEMBER 21, 1928

Price Five Cents

BEAVER FIVE WINS FOURTH VICTORY

Colonel C. R. Gow Is Chairman of Planning Board

Appointed Head of Metropolitan
Planning Division by
Governor Fuller

MAY BE NEXT POSTMASTER

Colonel Charles R. Gow, Professor of Humanics at Technology, was appointed chairman of the Metropolitan Planning Division by Governor Alvan T. Fuller on Wednesday. According to the Governor, however, Colonel Gow is still in line for appointment as the next postmaster of Boston.

It has been stated that Gow will accept the state appointment and will later take the civil service examination for postmaster. Gow explained that there is no prohibition against his holding both offices, since there was considerable debate on this technicality which entered into the situation. His appointment was one of a number of important appointments
(Continued on Page 4)

DEBATERS PREPARE FOR COMING MEETS

Freshman Team Still Has Places Open to New Candidates

The trip of the Varsity Debating team this year has been partially arranged and it will meet George Washington University on February second and Lafayette on February third. The proposition is; Resolved: "That the public should retain the ownership of and develop the principal sources of hydro-electric power in the United States." Technology will take the negative side of this question in all the meets arranged so far.

The freshman debating team has not yet been picked and any freshmen who are interested should see Professor Dean Fuller as soon as possible. At Brown University on February twenty second the freshmen will have their first debate, taking the negative side of the same question on which the Varsity is debating. The freshman team will go to Princeton on March twenty third to uphold the negative while the remaining part of the squad will debate the affirmative against part of the Princeton freshman team.

There will be a general meeting of the Debating Society on January fifth at 1:00 o'clock at which time the debates at Technology will be planned.

Chosen Chairman of Planning Board



Col. Charles R. Gow

U. S. AND ENGLAND WILL GO TO WAR

Professor Nearing Discusses British Relations in Liberal Club

"Britain is attempting to make a combine of the British empire and the Powers of Europe. When Britain gets this combine finished, she will tip the boat and we will be at war," stated Professor Scott Nearing in his talk to the Liberal Club yesterday afternoon.

In beginning his speech, Professor Nearing gave a short resume of the rise of the British Empire. The British Empire was a development that was practically uncontested until 1870 by which time new powers had arisen, namely, Germany, France, Japan, and the United States. From this time, there developed a parallel struggle for economic supremacy between the United States, Germany and Great Britain. "The World War marks the end of an episode in which Britain overcame the economic power of Germany. Having been defeated in the economic field by Germany, England proceeded to put the machine out of business with a "monkey-wrench," the World War.

England Loses Lead

"In certain essential lines, the United States, in the last few years, has had a phenomenal development." Previous to the World War, Britain was the leading exporter nation but in 1927, the United States assumed the lead. Expansion in some lines has not been justified economically, such as the merchant marine, which owes
(Continued on Page 4)

"A TECH RIOT" IS TITLE CHOSEN FOR 1929 PRODUCTION

Tech Show Announces Annual Poster Competition—Ends on January 11

"A Tech Riot" was the name selected for the Tech Show 1929 production at a joint meeting of the Advisory Council and the Tech Show board Wednesday evening. The show will be a musical revue in two acts and will consist of a series of skits, songs, and specialty acts.

The skits already received treat on a variety of subjects, the unifying of which would seem like a Herculean task, but Mr. William C. Greene, the cast coach, has had considerable success in rearranging the material and putting it in a form suitable for presentation. The names of the skits on hand are: "Bon Voyage," "The Old Oil," "Cafeteria," "The Cook's Tour," and "The Last Of the Conways." Besides these, the Show will include a pantomime on the subject of the Boston Common, some dance specialty acts, and a short play by members of the Dramashop.

Rehearsals of the cast have been going on for the past two weeks and will continue with the resumption of school in January, although they will be less frequent.

Since the title has been chosen, announcement of the annual poster competition will be made today at Rogers. The sketches must be on a standard poster sheet, 11x17, must consist of two colors in addition to black and white, and must incorporate "Tech Show 1929" as well as the title. Space must be left at the bottom for the playing dates and places. A prize of two dollars will be awarded to the designer of the best poster submitted. The competition is open to all students, but the designs must be submitted to Professor William Emerson at Rogers on or before January 11.

This is the Last Issue Before Xmas

This will be the last issue of THE TECH until after the Christmas vacation. The next issue will be Friday, January 4. The staff of THE TECH wishes the faculty, alumni, and student body a very merry Christmas and the happiest of New Years.

Manhattan Falls Before Engineer's Attack 31-28 In Hard Fought Contest

Fighting furiously from start to finish, the Engineer basketball team won their fourth straight victory when they defeated Manhattan College of New York City by a score of 31-28 in the Hangar Gym Wednesday evening. Without a doubt this was the hardest game that the Cardinal and Gray has played so far this season.

During the first half the Beavers piled up a lead that they were able to maintain throughout the game; although Manhattan made a desperate rally in the last few minutes of play that fell short by three points. Before ten minutes of the first period had lapsed Technology's fighting five had piled up a seven to nothing lead which they maintained during the half, the period ending with a score of 18 to 11.

Manhattan Rallies

At the beginning of the second half the New Yorkers began a vigorous offensive that placed the Cardinal and Gray on the defensive during the greater part of the period. Keber, the Manhattan right forward began sinking shots from all parts of the floor and he seemed able to slip through the Engineer's defense. Shand, the left guard made several shots from the middle of the floor
(Continued on Page 3)

Will Address Students Today on Latin-America



Victor M. Cutter

V. M. CUTTER IS ALDRED LECTURE

President of United Fruit Co. Will Address Students at Institute

Mr. Victor M. Cutter, president of the United Fruit Company, is to be the speaker at the second Aldred Lecture of the year to take place today in Room 10-250 at 3 o'clock. His subject will be "Pioneering and Engineering in the American Tropics." As usual the lecture will be open to Seniors, graduate students, and members of the instructing staff and classes which they have that conflict with
(Continued on Page 4)

FLYING CLUB HEARS LIEUT. S. G. FRIERSON

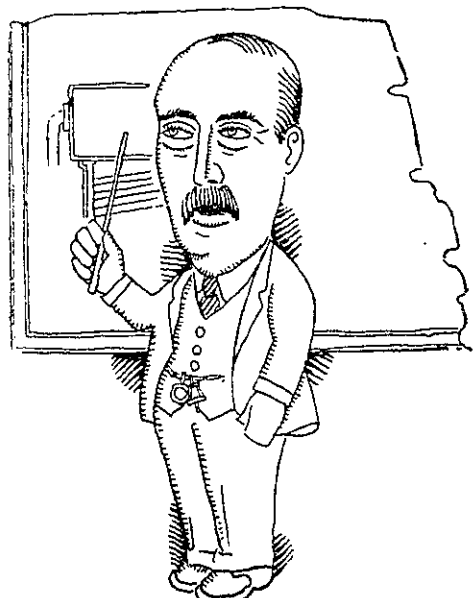
Explains Fundamental Principles of Flying to Students

Lieutenant Samuel G. Frierson was the principal speaker at the Flying Club meeting held in Room 418 of the Aeronautical Building on Wednesday afternoon. His address was in the nature of a ground school course and was the second to be delivered to the Club members this year. The fundamental principles of flying were discussed and explained to the students.

As soon as the students return from the Christmas vacation Benjamin S. Kelsey '28, of the Aeronautical Engineering Department of the Institute, and one of the active members of the Club last year, will give a course on airplane rigging as it is now being done in the modern aircraft factories. This course will be open to all students at the Institute in addition to the members of the Club.

Wishing You All a Good Vacation

—AND A MILLION DOLLARS



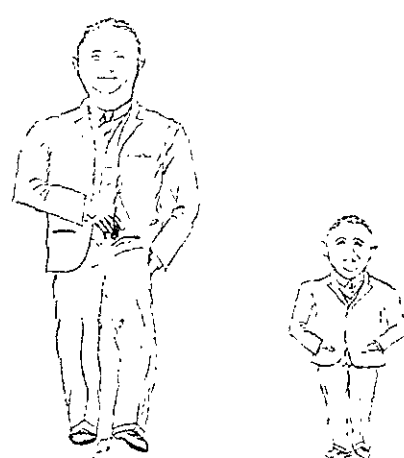
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Head of Department of
Mechanical Engineering



Edward Mueller
Associate Professor of Chemistry



Samuel W. Stratton
President of the Institute



Harold E. Lobdell, '17
Assistant Dean
and "Willie"



Dr. Allan W. Rowe, '01
Secretary of the Advisory
Council on Athletics

A Record of Continuous News Service for 47 years.



Official News Organ of the Undergraduates of M. I. T.

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In charge of this issue: M. F. Burr '31

TO THE MINORITY — GREETINGS

PITY the poor man who lives so far from Boston that he can't go home for the holidays, and has to be content with a brief jaunt to Florida. Pity the fellow who finds that he has no more classes worth going to after Wednesday noon. And pity the unfortunate who left town just a day too early to catch this blessed sneeze epidemic. But above all pity us who have to sit here at our broken-down Underwood and grind forth between coughs and snuffles these cheery greetings to the several score yet ambling around the halls of this glorious old institution.

If only a quorum were necessary before an instructor could insist upon holding class! As it is, the Faculty seems to delight in quizzing empty chairs, while we poor unfortunates who are taking our holiday cheer right here in Boston sit scattered here and there about the deserted rooms wondering how many times more we'll be called on before the hour ends.

Yes, yes indeed Christmas is a time to be joyful—for the majority? Well, possibly, for to look about the average class today there is surely no majority apparent; yes, the majority this time has all the luck. Nay it is rather to the small minority too foolish, or too conscientious, or too downright broke to go home before the Faculty says it may that good wishes should be extended. "Merry Christmas?" we say; "Merry my eye! Can you call having the flu merry? Does it make you merry sitting down in front of the prize prof with the rest of the class half way home? Don't be funny."

Hence it is that we insist so strongly on forcing our greetings upon this minority. Maybe if they hear this "Merry Christmas" often enough, they'll really agree with it; maybe. So c'mon, Minority; what if your nose is running—ours is too; what if you do have to wait around till the last moment for that blamed Triple E problem—you're not the only one; and what if your girl has gone home for three or four weeks—she may not forget you. Snap out of it—you won't feel half so bad when you get up tomorrow noon. So take the editor's tip: A Merry Christmas!

ON THE OTHER SIDE OF THE FENCE

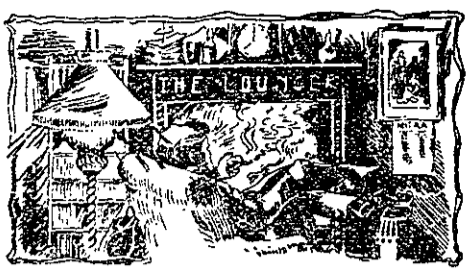
THAT man can't teach—I can easily get more information by reading the text for fifteen minutes." Time after time, as student groups get together to hold forth on their grievances, there is heard this typical condemnation of the educational methods at the Institute. "The professor just comes into the room, presses some button within himself, and out comes that day's lecture", the students say.

Well, why not? To be personal, what would be your reaction in a similar situation? Imagine that you gaze out over the class and find that the back row are attempting to catch up on the sleep they lost because of the big party last evening. Several of the men are feverishly working slide rules while you derive a complicated formula on the board. General questions on the subject elicit no coherent response. Questioning each man gets no cognizant replies. No wonder the instructor finds it hard to give his best to the class.

After all, in spite of their exalted positions, the faculty are decidedly human. Many of them come to the Institute from the field. After this interesting work, they come to Technology and go through the same monotonous routine of duties, presenting year after year the same subject to men who in many cases take the course merely to fill their requirements. Deadly to their initiative in this system—small wonder that they sometimes give "dry" lectures.

To present one professor's view of the matter, "Why should we work ourselves for the comparatively low salaries we receive when we could do work for the industries and make twice the money?" Again we say, their attitude is perfectly human. No one would give extra hours of work to do one task exceptionally well when he could get much more recognition by using his time elsewhere—our economic society is decidedly not altruistic. His case is the same as the students'—if he can "get by", why exert himself?

Along this line of Student-Faculty relations we have heard much which is not complimentary to the professors. We point again that our teachers are human—how about this side of the question?



The Lounger has been given to understand that Sam Prescott is proving to be considerable expense to the institute through his latest experiment in mouse-farming. According to reports, for the accuracy of which the Lounger of course vouches most firmly, the professor found himself with two white mice on his hands, one being a mister, and the other conversely being a mistress mouse. So what did Sam do but immediately hit upon the plan—biologist that he is—of going into the mouse business, with quantity and not quality, apparently, as his sole motive. Now several weeks have passed, and Sam has the biology department just overflowing with little white mice—so many in fact that a special caretaker has been supplied by Major Smith to keep them busy and happy.

That this publicity is warranted is felt by the Lounger, for the other day when a special lecturer at the Institute wanted a mouse for an experimental patient, they sent all over Boston to get him a specimen, when right up on the fourth floor were mice by the score—and more coming every minute! The Lounger fully expects to come back after the vacation—Gawd bless the Administration—and find mice being used for lecture purposes everywhere—even as live loads in beam problems.

The Lounger would judge that the editor has a cold.

If Santy's calling list is not at this early date irrevocably closed, the Lounger sincerely prays that Prof. Hudson, No-graft Russell and their playmates in the Triple-E department, as well as Papa Hayward in Applied Mechanics, wake up Christmas morn to be confronted by that most insidious of barometers of popularity, an empty stocking. Such popularity is assuredly deserved, that of the electrical wizards for refusing to cancel the regular hour quiz scheduled for today, and Hayward's warm spot in the Lounger's heart is due to his leading up his class with homework calculated to delay their homecoming by at least one day. It's not the answers to these problems that interest Hayward, it's the idea of cutting classes that gripes him, as the Lounger has been forced to conclude.

Hunting the proper simile to be employed in an English theme, the Lounger wandered out to Eddie Pung's spacious recreational parlors the other day and was rewarded with a most appropriate wise-crack, to wit: "as sudden as one of Eddie's pin boys." A brown-bagger acquaintance of the Lounger's missed his last train home one day recently because not content with one, he tried to bowl two strings after his three o'clock class. Counting time off for supper, he established a local record: two strings in 4.59 hours.

As the feller says, it won't be long now, so the Lounger wishes each and every one of his gentle readers a merry Christmas and a happy New Year. May your bootlegger sell on the instalment plan, may your girl swallow all your stories about the midnight oil, may your professors return mellowed and softened by the spirit of the season, and may you yourself have a damn good time. There, now the Lounger guesses that's a real heart-felt expression of good wishes.

A number of interesting facts concerning American colleges and universities are revealed in the recent Educational Directory published by the Bureau of Education. Columbia is recognized as the largest university in the country with 35,000 students and 1,500 teachers. Buena Vista College is the smallest with 21 students and 16 faculty members. Howard is the oldest university, having been founded in 1636. William and Mary College rank second and third in this respect, having been established in 1693 and 1701, respectively.

Recently Princeton University's new \$500,000 building for the School of Engineering was dedicated with impressive ceremonies. More than two hundred engineers and scientists from all parts of the country attended. The building, although it was finished only last week, has been in use since October.

For that well-fed appearance, when you go home. Eat at the Esplanade THE ESPLANADE Mass. Ave. at Beacon

Phi Beta Kappa Began Its Existence As a Colonial Drinking Club in 1776

Group Which Has the Highest Scholastic Aims Started With Ale Fests

"Mystery and secrecy is dear to the youthful mind," says De Lysle Ferrer Cass in an article on the history of early secret organizations in the January College Humor. "Hence the many secret societies in steadily increasing numbers throughout the country. After the early class and debating societies came Phi Beta Kappa, organized in 1776 with aims that were purely social. The Yale chapter was installed as 'a select debating society, with initiation suppers where the juice of Bacchus flows.' It was the first Greek letter society whose active membership was not confined to a single undergraduate class. "In those days the student rathskeller was as characteristic as were peg-top trousers. Almost every college town boasted one or more such drinking places where the students gathered. These parties—never in mixed company—were known as 'beer busts,' 'beer fests,' and 'keg parties,' and were provocative of good-natured mirth and fast fellowship. They represented no alcoholic craving, but were as peculiarly an undergraduate affection as the insistence upon weirdly distinctive headgear and apparel.

or the hocus-pocus of Greek letter society mysticism.

"Phi Beta Kappa was preparatory to the modern fraternity movement. Secrecy was abandoned in 1830 and since that time membership has been almost exclusively an honorary distinction.

"The most dangerous of the class secret societies was Theta Nu Epsilon, known as T. N. E. and now abandoned almost everywhere. It perpetuated all sorts of excesses and violence with the utmost impunity, encouraging drunkenness, dissipation, immorality. It worked much as the present Ku Klux Klan. Good fellowship, snorty proclivities, liberal spending, and an unusual capacity for holding hard liquor became the determining qualifications for membership. No. T. N. E. ever allowed a girl to wear his pin except in tacit commemoration of her moral frailty. The Greek letters of the society's name were popularly alleged to signify 'Thirst Never Endth.'

"Kappa Beta Phi, directly burlesquing Phi Beta Kappa, was another sophomore secret society but this flourished only for a decade or so until the passage of the eighteenth Amendment and the largely prohibitive prices of liquor contributed to its extinction."

Sending Laundry Home Costs \$3.50

Student Puts Message in His Case; Postal Officials Charge 1st Class Rate

A rather axhorbitant laundry bill was the result of a small poem penned to one Ohio student's mother. This was occasioned by the breaking open of the laundry case at the local post-office, whereupon a note was found: "Hello mother, I'm O. K. Am sending laundry home today."

The postal clerk could do nothing but send the package as first class mail, and this he did, with the result that it cost several dollars.

Postal officials say that such cases are being found regularly. Students swear that the packages contain no writing, but some of them swear falsely. Some simply do not know it is against the law to send written messages in parcel post packages, and others deliberately try to get the best of the officials.

However this is not the greatest problems of the postoffice at Athens, where Ohio University is located, for the postmaster says that the students who fail to notify the officials of their correct address. Many of the students say "O everybody knows me here in Athens" and their mail has to be examined by all the postal clerks in order to try find the recipient of the letter.

The postal clerks say that of all the writing of addresses, the students write the most legibly. Perhaps this is due to constant practice, perhaps to the fact that many of the students' letters are requests for money, and are for this reason written with greater care. Special delivery letters come in frequently, on an average of one hundred a day, which is a very large percentage for a town the size of Athens.

At last someone has solved the problem of allowing everyone to obtain a good seat at football games. The solution comes from the University of Michigan where they are considering the erection of a skyscraper stadium would consist of a number of stidum would consist of a number of

Play Directory

Stage

COPLEY: "Marigold". The last two weeks of this Elizabethan comedy.

HOLLIS: "Caprice". New York Theater Guild's success come to Boston.

MAJESTIC: "Cafe de Danse". (Begins Christmas matinee). Ben Bernie presents a French adaptation.

COLONIAL: "The Houseboat on the Sky". Last chance to see this "Hell-ish" musical comedy.

PLYMOUTH: "And So To Bed". (Another opener on Christmas). The diary of Samuel Pepys comes to life delightfully.

SHUBERT: "Rain or Shine". (First showing Christmas night). It was hept in New York—hope they don't censor it for Boston's detection. Joe Cook and Tom Howard.

REPERTORY: "Alice in Wonderland". Another place to go after your Christmas dinner—opens with a matinee on December 25th.

TREMONT: "Blackbirds". Still people pack the house to see this revue.

ST. JAMES: "The Eternal Magdalene". The Keith-Albee Players give a good production.

WILBUR: "Royal Family". (Opens Christmas night). Fun baked at The Crown by competent comedians.

OPERA HOUSE: National Opera Company opens Christmas night. "Aida", "Rigoletto" and all the rest at popular prices.

Screen

LOEW'S STATE: "The Wind and What Price Georgie". Two features make the bill a fine one.

METROPOLITAN: "The Air Circus". First showing of this powerful sensation. Hope you like it as well as "Wings".

OLYMPIA AND FENWAY: "On Trial". An "all-talking" picture with Pauline Frederick.

MODERN AND BEACON: "The Good-bye Kiss" and "Sweet Sixteen". The first is a sound picture.

KEITH MEMORIAL: "The Michigan Kid". A Rex Beach story. Lots of his time vaudeville and a beautiful Christmas pantomime.

Before You Leave! your money will go further in our great CASH CLEARANCE SALE Savings in every department! LANGROCK HARVARD SQUARE 1436 MASS. AVE. CAMBRIDGE

VARSITY QUINTET IS AGAIN VICTORIOUS

Engineer Cross Country Team Had Mediocre Season This Fall

Cardinal and Gray Wins Fourth Victory as They Defeat Manhattan 31-28

Team Will Rest Until January 9 When They Meet Brown at Providence

(Continued from Page 1)

that helped to cut down the Engineer's margin.

Towards the end of the game, the guarding became very tight and both sides fought desperately to get control of the ball. Once Allen made a desperate dive for the ball and as a result scraped off a good portion of the skin around his elbow. Captain Brockleman stopped numerous passes that were intended for the Manhattan forwards.

Brockleman Plays Well
Captain Bernard Brockleman played his best game so far this season and was in the thick of the fight throughout the game. He got the jump on Mike Mazuke, the six foot five Manhattan center, at least three-quarters of the time as well as being the Engineer's high point man with a total of ten points. Usually Brockleman plays a defensive guard, but this time he played a running guard with Lawson staying back.

Dave Motter made the largest number of field goals during the first half, but the Manhattan defense kept him pretty well covered up during the final period and as a result he was not able to score.

Free Throw Shooting Improves

One of the things that was responsible for the Beaver's victory was their free throw shooting. They made seven out of the thirteen that they attempted while Manhattan only sank two in twelve attempts. However the Engineers can still improve and it is very probable that Coach McCarthy will keep the team working on their free throw shots.

Some of the Engineer's passing

was rather ragged and as a result several passes landed in the New Yorkers' hands. Dave Motter threw a number of his shots too hard and as a result the man on the receiving end was not able to hang onto them. Shooting under the basket has improved considerably, but the Cardinal and Gray five is still missing quite a number of shots.

There will be no further basketball practice until after the holidays when the Engineers will resume training in order to get in trim for the Brown game which will be played at Providence on January 9. So far this year Brown has lost to Boston University 33-31 and to Williams 38-29, and as a result the Engineers expect to come out of the contest with a victory.

M. I. T. 31	G.	F.	P.
Nelson, rf.	2	2	1
Bates, rf.	0	0	0
Allen, lf.	2	3	2
Brockleman, c.	1	2	0
Motter, rg.	3	0	2
Lawson, lg.	1	0	2
Totals	12	7	10

Manhattan 28

G.	F.	P.	
6	1	2	
0	0	1	
0	0	0	
2	0	1	
1	1	2	
0	0	2	
3	0	0	
Totals	13	2	9

WILL HOLD HOCKEY PRACTICE NEXT WEEK

With its first victory of the season under its belt, Technology hockey team has regained its old confidence and is sure of making a good showing in the remaining games of this season. The next game will be with New Hampshire at Durham on January 5. The strength of that team is not known but it is probable that they will not be setups for the Varsity.

Practice will be held during the Christmas Vacation for all the players who will be around Boston. The practice sessions will be held on the days that the ice at the Boston Arena will be available. Paul Donahue, last year's manager will take charge of the team during Manager Snyder's absence. A schedule will be made up for the team during the holiday by Donahue.

The Varsity came out of their game with Norwich in great shape, no mishaps resulting and no injuries being reported. Coach Bill Stewart is confident of rounding the team into their best form before their next game. As yet the freshman team has held no practice. Coach Stewart having to concentrate on the Varsity thus far. However freshman practice will be held several times a week after the Christmas vacation.

NEWTON WRESTLING MATCH CALLED OFF

Due to the inconvenience of having a meet on the eve of Christmas vacation, it was mutually agreed to call off the meet that was to be held last night with the Newton Y. M. C. A. at Newton. One of the deciding factors was the fact that some of the Technology mat men had already left to go home for the vacation. It is probable that the meet will be held later in the season, although no definite date has been set. Races will be important.

The next handicap meet is scheduled for January 19, the last day of the first term. By that time the track men will be in condition for the relays, and the outcome of the races will be important.

A perennial favorite with smart people and one of the best—
LEO REISMAN'S ORCHESTRA
from 6:30 to 2 A. M.
HOTEL BRUNSWICK
EGYPTIAN ROOM

1928 Cross Country Record

Team	M.I.T. Opponents
Holy Cross	25 30
New Hampshire	39 20
Northeastern	
(Practice meet) 19	42
N. E. I. C. A. A. 5th	
I. C. A. A. A. A. 10th	
FRESHMEN	
Holy Cross	33 22
New Hampshire	37 19
Quincy High	19 41
N. E. I. C. A. A. 4th	
I. C. A. A. A. A. 13th	

Gymnasts Perfect Difficult Series For Winter Meets

Reynolds, Wells, and Dolloff Add New Stunts to Complete Program

Working hard for the coming spring program, the gym team is perfecting some very difficult stunts that have heretofore defied the Cardinal and Gray gymnasts. Dave Wells, who broke his wrist attempting full turns from a giant, has succeeded in mastering this part of his series, and is doing it with a great degree of success. His work on the rings and parallels has also shown much improvement, and promises to make his series one of the mainstays of the coming meets. "Iron man" Reynolds, who is considered invincible on the rings and parallels, is rapidly getting into condition, and will prove even better than he was last year in his unofficial meets.

In tumbling, Dolloff has been perfecting a series, that will undoubtedly bring him many victories. One of the most difficult stunts that Dolloff has mastered is the standing front "sommy", and the side "sommy". Among the other stunts that he is perfecting is the "Branny", which is a round off without hands. He has also been working on a difficult series, which consists of a row of flip-flops followed by a half twist back "sommy", going into a handspring and front "sommy". Captain Fairchild has been perfecting his series on the side-horse, and rope climb. Along with an improvement in form, he has perfected his shifts from free circles, and expects to win many points on this score.

In the coming meet with Bowdoin, the Cardinal and Gray will appear before representatives from Maine, Colby, and New Hampshire, who plan to start a Gymnastic League with Bowdoin, in the near future.

SWIMMERS PREPARE FOR INITIAL MEET

Varsity Shows Excellent Form as Meet With Amherst Nears

Technology's tanksters are busily engaged in practice for their first dual meet at Amherst on January 12. This meet, the first Intercollegiate one scheduled, will open a very busy swimming season for the Institute Varsity. This year's schedule is one of the hardest ever undertaken, and several strong teams are to be met before the Intercollegiate meet in the spring.

Led by Captain Lucy Jarosh, and Torchio, the men are undergoing intensive practice three times a week at the University Club. Coaches Dean and Brown are doing their best to smooth out the rough spots in the men's style so that they will be in top form when they encounter Amherst. Both coaches seem satisfied with the progress exhibited so far by the team members, and are confident that the Varsity will put up a very creditable showing in its first meet.

Beginning on Monday January 15, Coach Hedlund will hold a series of trials for the relay teams that will represent Technology in the winter track games. No one will be sure of a position on one of these teams until he has been timed and shown his ability on several occasions. Keen competition for the positions is expected and in view of this fact the coach announces that he will be at the track house at 3 o'clock daily during the Christmas vacation.

M. I. T. Harriers Won Two Dual Meets and Lost One ---Thorsen is Star of Team

Placed Fifth in N.E.I.C.A.A. Meet and Tenth in I.C.A.A.'s

Now that the 1928 cross country season is a thing of the past, a glance back discloses a schedule which turned out to be successful in many ways and disappointing in a few respects. The most encouraging feature of this year's team was its wealth of good material in the lower classes. This speaks well for the future of the sport at M. I. T., and it is certain that the next two seasons will be marked with more victories.

The season started with a team of veterans and a very bright outlook. Pete Kirwin, captain of the 1927 team, and Norman McClintock were lost to the team by graduation; the remainder of this team returned this fall. Captain Worthen, Mitchell, Thorsen, DeFazio, Berry, Herbert, and Blackwood, all men of previous Varsity experience, and Baltzer, McNiff, Albright, and McSheehy, of last year's freshman team showed up very well in practice, and upon these men was based the hope of a successful season.

Defeat Holy Cross

They started off with a bang by defeating Holy Cross by a score of 25 to 30. This meet was featured by the good running of Leon Thorsen, a Junior and a member of the 1927 Varsity. He ran a winning race and beat Brennan of Holy Cross by a margin of three hundred yards. Thorsen was the star of the team from that time till the end of the season and he ran true to form in the subsequent meets.

Johnny McNiff, a Sophomore from last year's freshman team, surprised everyone by finishing third in this meet, showing great form and beating his more experienced team-mates.

The next event on the harriers' program was a new feature introduced by Coach Hedlund. He revived the hare-and-hound races which were popular before the Institute left the old Boston site. This new event was in the form of a handicap interclass cross country run, held on Tech Field on October 27. This race was won by Dick Baltzer, another Sophomore star.

N. H. U. Proves Too Strong

On November 3 the strong New Hampshire team came down with an invincible array of speed kings. If the Technology team was better than its predecessor it was not good enough to defeat this exceptional aggregation of runners, and lost by a score of 39 to 20. Thorsen's usual good running, was the only consolation left to the losing team. He finished first with twenty yards to spare.

On the following week the harriers went to Franklin Park to meet the Northeastern squad in a trial workout. They outclassed their opponents and won easily by a score of 19 to 42, besides showing better running than they had displayed previously this season. Thorsen was the winner

once more, with Captain Worthen and McNiff well up on the list.

Place Fifth in N. E. Meet

Heartened by this display of power, the team entered the New England with high hopes, and vows of vengeance for their defeat by New Hampshire. Their showing was very disappointing, however. In spite of their ability and determination, their opponents were far superior. It was an unusual case where three schools in New England had teams which were far above average. These teams were Maine, New Hampshire, and Bates, which finished in the above order. Technology took fifth place, although favored to finish among the first three.

In the I. C. A. A. A. meet the following week the team was not as high-spirited as they were in the New England. With no possible hope for a win, they were a beaten team from the start, and finished tenth.

Fresh Season Disappointing

The freshman team started out with a very good squad and a cheery outlook. At the first practice sessions several men appeared to have good possibilities, the outstanding ones being Conant, Jewett, Midkiff, Littlefield, Camerlingo, and Gilman. The last-named boy was chosen captain of the team and turned out to be a very capable leader.

In spite of their hopes at the start, (Continued on Page 4)

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Evanston, Ill. Dec. 31, 1927

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.

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OFFICIAL BULLETIN

ALDRED LECTURE
 In view of the unusual interest in the lecture on "Pioneering and Engineering in the American Tropics" to be given by
Mr. Victor M. Cutter
 United Fruit Company
 Friday, December 21, 3 P.M.
 Room 10-250
 the Aldred Lecture has been opened to all students

CALENDAR

Friday, December 21, 1928
 3:00—Aldred Lecture, Mr. Victor M. Cutter. Room 10-250.
 6:30—Chinese Students Club Dinner. Faculty Dining Room, Walker Memorial.
 8:00—Chinese Students Club Meeting. North Hall, Walker Memorial.
 Saturday, December 22, 1928
 9:00—Christmas Vacation Begins.
 Wednesday, December 2, 1929
 9:00—Christmas Vacation Ends. Classes Resume.

OFFICIAL

Registration material for the second term will be given out on Thursday, January 3.
First Year Students Material will be distributed in the Chemistry Laboratory sections, for those who take Chemistry, 5.01. Those who do not take Chemistry may obtain material at Professor Mueller's Office, Room 4-256, except Course IV which is available at Rogers.
Upper Years Material may be obtained in the Main Lobby, except Courses IV and IV-A, which can be obtained at Rogers, and Course VI-A, which should be obtained from Professor Wildes, Room 4-205. After 2:00 p.m. Registration material may be obtained at the Information Office.

SENIORS MUST GIVE BACK PROOFS TODAY

Men Will be Given Final Chance to Have Pictures Taken

All proofs of the Senior pictures for Technique must be returned to Room 11-004 before 2 o'clock this afternoon. The yearbook staff announces that this is absolutely necessary, and that any pictures which have not been returned by that time can not appear in the yearbook.
 The Seniors have responded well in the matter of getting their proofs and making their choice as to which picture they want placed in the yearbook. In the cases of those who have not indicated their choice, the Technique staff reserves the right to make the selection.
 The greatest problem of the staff has been getting the Seniors to have their pictures taken in the first place. Approximately only 75 percent of the class responded at the proper time, when the photographer was here at the Institute. All Seniors who failed to have their pictures taken at that time are urged to make arrangements for this immediately after returning from the Christmas recess.

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ELECTIONS TO STAFF ANNOUNCED BY T.E.N.

Scroll Elects Men at Banquet at Riverbank Court

Elections to the Editorial and Business Staff of the Tech Engineering News were held last Monday evening, following a banquet of the entire staff at the Old Plantation in Boston. Those elected were as follows:
 To the Editorial Staff: E. H. Anderson '32, G. Chayaoongse '32, R. C. M. Calvert '32, T. Harper '32, I. W. Hilliard '32, L. R. Mitchell '31, R. E. Johnson '32, H. G. Protze '32, W. F. Spreen '32, A. G. Sprockwell '32.
 To Assistant Circulation Manager: Richard T. Kropf '31, George M. Orne '31, Herbert E. Raymond, Jr. '31.
 To Assistant Advertising Manager: Charles R. Wood '31, Nelson B. Haskell '31.
 To the Business Staff: F. S. Chaplin '32, H. E. Clements '32, D. W. Brookfield '32, S. Edelstein '32, K. J. Heinicke '32, G. D. Johnson '32, J. E. Linz '32, E. A. Newcomb '32, A. M. Maguire '32 P. P. Shelby '32, R. M. Stewart '32.
 Mr. J. J. Rowlands, Publicity Director at the Institute, was the speaker of the evening.
 At two formal banquets held at Riverbank Court on Thursday evening the following elections to Scroll were announced:
 Charles C. Ladd '30, Charles F. Edlund '30, Howard S. Gardner '30, B. King Coupur '29.

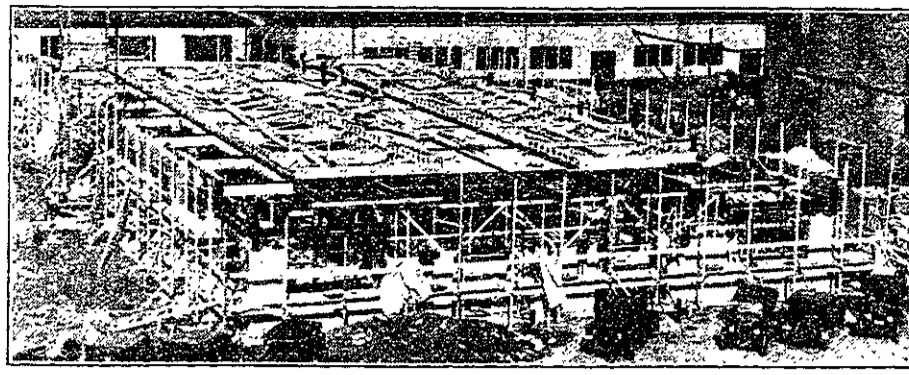
COLONEL GOW NAMED CHAIRMAN OF BOARD

(Continued from Page 1)
 announced at the same time, many of which surprised many of the Republican leaders in this state.

Will be Part-Time Job
 According to Colonel Gow, this new position is one which requires only part time for its performance. Furthermore, Henry I. Harriman, retiring chairman of the board will remain as a hold-over member of the board, and according to Gow is expected to continue as active as ever in its affairs and in fact remain the dominant figure in that body.
 Outside of his political and scholastic activities, Colonel Gow is a consulting engineer, and president of the Gow Company, Inc., of Boston.

Graduated from Tufts
 Born in Medford, Gow graduated from Tufts Engineering School in 1893, and in 1919 received the honorary degree of Doctor of Science from his Alma Mater. He was assistant engineer of the Boston Transit Commission, superintending the work of the building of sections of the Tremont Street subway and the East Boston tunnel. He is the inventor of the so-called Gow caisson method of installing foundations, now widely used by civil engineers. He was president of the Boston Society of Civil Engineers in 1915.

Professor of Humanics
 Beginning in 1899, Gow was in the engineering contracting business for more than twenty years, in which time he participated in the construction of most of the important engineering projects of a semi-public nature in and around Boston. For a number of years, he has been engaged in a consulting capacity in the vari-



Work Processes On Automotive Laboratory

EXPLAIN PLAN OF NEW LABORATORY

Will Provide All Facilities for Operation and Research With Engines

Many special and intricate types of apparatus are to be installed in the new Internal Combustion Engine Laboratory that is being constructed in the rear of Building 33. All of this equipment will not be provided immediately, but ample provision is being made for future apparatus.
 Among the new equipment will be an N. A. C. A. universal test engine, an N. A. C. A. supercharger, a special engine for air-cooling work, and a high-speed wind tunnel that will be used in experimenting with the cooling of engines. Provision is being made for a rear wheel dynamometer, but this apparatus will not be installed at present. Most of the present equipment used in automotive engineering work will be transferred to the new building when it is completed. This will include some cutaway engines, a brake tester, the chasses from Building 3 and other equipment.
 All facilities for running internal combustion engines will be provided in the new laboratory. It will be possible to make connections from any part of the building to three kinds of gasoline, three kinds of electricity, steam, water, air, and an exhaust system. The floor is being fitted with slots so that it will be possible to install new apparatus in practically any position. Overhead cranes will provide for the handling of machinery.
 Both the Mechanical and Aeronautical Engineering Departments will use the new laboratory for experimental and research work in internal combustion engines. The building is 160 feet long and 80 feet wide and one-story in height. It is of concrete and brick construction and is entirely fireproof.

FRESHMEN HARRIERS HAVE POOR SEASON

(Continued from Page 3)
 they had a rather disheartening season, winning but one meet. They were beaten by Holy Cross and New Hampshire, but won from Quincy High School by a score of 19 to 41. In the New England they placed fourth, and in the I. C. A. A. A. thirteenth.
 These men were as good as the average freshman team, and better in many ways. They were smaller than usual and had to run against bigger teams, men who could stand up better under a great strain. Some of these men have some good running ability, however, and they will be welcomed to the Varsity squad next year.

ANNOUNCE NUPTIALS OF M.I.T. GRADUATE

Announcement of the coming marriage of Donald L. Ross '27, to Miss Doris Whitney of New York was recently made. Ross attended Union College in New York before coming to the Institute and has been in New York the past year. The future Mrs. Ross is a student at the Garfield School.

Christmas cards have been mailed by the T. C. A. to foreign students, 11 activities, 37 different colleges having Christian Associations in New England, 141 to former members of the T. C. A. Cabinet, making a total of 400 cards.
 Cards have been posted on the various bulletin boards about the Institute, conveying the greetings of the T. C. A. to the undergraduates and to the Faculty.

ous branches of engineering and for the last six years his business activities have been confined almost entirely to this field.
 Colonel Gow was recently honored by the Institute when he was appointed to the newly founded chair of humanics, a new departure in education made possible by William E. Nickerson '76, for the instruction of students in the fundamentals of human nature.

WAR PREDICTED BY PROFESSOR NEARING

Development of United States to Cause Economic Strife

(Continued from Page 1)
 its growth to the fact that the United States built ships to fight a war in Europe.
 "Britain finds herself at a disadvantage with the United States because it is the rivalry of an economic inferior with an economic superior. Germany never succeeded in arriving as a major economic rival. The rivalry of Great Britain and Germany was the rivalry of an economic superior with an economic inferior."
 "Economic superiority of the United States really took place before the World War but the war threw it into prominence." At the beginning of the war, Great Britain was the great creditor nation but the United States became equal if not superior after the peace treaty.
 Great Britain now holds world political power and the United States, world economic power. "This situation represents the stage of most acute, unstable equilibrium. What is going to happen?" Professor Nearing did not state definitely what was going to happen but offered several suggestions.

Britain Aggressor
 "It is foolish to suppose that the United States will be the aggressor as she holds business interests all over the world. Just as President Coolidge stated in his speech on Armistice Day, we do not desire war as it would ruin our economic structure. Great Britain's economic curve however, is constantly on the downward trend and to regain her position she is developing the combine. When Britain is ready, she will tip the boat, this unstable equilibrium, and we will have war. The break may come in a month, a year, or twenty years but history shows that the break will come."
 After Professor Nearing's talk an informal discussion period was held

STUDENTS TO HEAR ADDRESS ON TROPICS

President of United Fruit Co. To Speak at Institute

(Continued from Page 1)
 the address will be excused in order that they may attend.
 In his talk Mr. Cutter will speak of the potential richness of the American tropics and of conditions there, in the past and as they are now, and of the future possibilities for developing Latin America. He will stress in particular the chance of development in connection with roads, power plants, and air and rail communications which will enable these countries to market their vast resources. Mr. Cutter will also touch upon the opportunities for engineers in construction work and especially for men who, in addition to their engineering training, have administrative ability and vision.

Is Dartmouth Graduate
 Mr. Cutter was graduated from Dartmouth in 1903 receiving the degree of B. L. and the Phi Beta Kappa key. Immediately after graduation he went to the tropics to work for the United Fruit Company, and worked up to the presidency of the company. Mr. Cutter has been actively connected with affairs in the tropics for many years and is on the boards of several companies which operate in Latin America.

This is the second of the Aldred Lectures to be held this year. Mr. Walker D. Hines was the first speaker. He spoke December 13th on the "Work of the Cotton Textile Institute." Later in the year other prominent men will address the students to the end that Mr. John E. Aldred the founder of the series purposed of helping them connect the training in theory which they receive at the Institute with the practical problems they meet in the business world. This lecture is open to men in all classes.

FIVE NEW MEMBERS ELECTED TO STYLUS

At its regular monthly meeting held last Wednesday afternoon, Stylus elected the following men to membership: Wilfred F. Howard '30, Gordon K. Lister '30, Lester H. Fox G., Carl Connable '30, and Frank C. Fahenestock '30. Stylus is the honorary society of THE TECH, membership in which is extended to upperclassmen whose work on the paper has been especially deserving of commendation.

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 Boxed Stationery stamped with M.I.T. seal in red or gold at \$1.00-\$1.15-\$1.25-\$2.00 and \$2.25.
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