

NORMAN THOMAS SHOWS ENGINEER'S PLACE IN SOCIETY

Engineer is Keystone to Future
Of Present Industrial
Civilization

GUEST OF LIBERAL CLUB

"You, as engineers, hold in your hands the shaping of the world for better or worse," were the keystone words of Norman Thomas's speech, delivered before more than six hundred people who thronged Room 10-250, Monday, from 3 to 4 o'clock, to hear the noted Socialist leader. The meeting was sponsored by the M. I. T. Liberal Club, and Mr. Thomas was introduced by William Holst, Jr. '32, president of the Club. At the beginning of the speech, Mr. Thomas announced that he would talk on "The Place of the Engineer in Industrial Society," instead of on "The Roots of War in Economic Injustice," as had previously been advertised.

Urging a social change at once, Mr. Thomas quoted Veblen, one of the most famous of the early German Socialists and author of "The Engineer and the Pride System," and "The Theory of Leisure," — "There will be a social revolution when the engineer works for society as he does for absentee owners."

Living at the End of an Epoch

Saying, "We are living at the end of an epoch," Mr. Thomas then went on to state that the Capitalist reign of the age just past is not the method for the future. However, he admitted that the discipline of Capitalism was necessary, but that the disciplinary stage was passing. Types of society are effective for the times in which they exist, but one type is not good for all times.

Edison Responsible for Change

Thomas A. Edison's work has caused the coming of the end of this social period
(Continued on Page Four)

JAPANESE EXPERT TO DISCUSS EARTHQUAKES

Dr. Suyehiro Is Recognized As Authority on Earthquakes

Dr. Kyoji Suyehiro, Director of the Earthquake Research Institute of the Imperial University at Tokyo, will deliver a series of three lectures next week on Monday, Tuesday, and Wednesday in connection with the Civil Engineering Department of the Institute. On Monday his subject will be "Earthquake Research in Japan"; Tuesday he will speak on "Engineering Seismology"; and on Wednesday he will conclude with an address on "Vibration of Buildings Caused by Earthquakes." All three lectures will be given in Room 5-330 at 4 o'clock. The attendance of these lectures is not restricted and anyone interested may attend.

MANAGERS ASKED TO KEEP SUPPLY RECORD

At a meeting yesterday afternoon of the M.I.T.A.A., in the West Lounge of Walker Memorial, Thomas B. Rhines '32, presiding, the managers were asked to keep records of medical supplies used in their departments for the benefit of the Bursar and were also given a few points on the details of management. The remainder of the meeting was devoted to discussing the possibility of reviving All-Sports Night, but nothing definite was decided.

Sign-ups for Technique Senior Pictures Today

Technique will have representatives in the Main Lobby starting today from 9 till 5 o'clock for the convenience of the Seniors in signing up for Yearbook pictures. The deadline for the pictures will be the Christmas vacation, and all members of the Class of 1932 are urged to get their signups in early.

LOUNGER IS BOTH LAUDED AND LAMBASTED FOR CRITICISM OF STUDENT CRUSADER MOVEMENT

Fourth Year Men From Rogers Win Over Fifth Year

Co-Ed Named Kelly Coached
The Winners And Led
From Sidelines

Able led by Margaret B. Kelly '33, a Vassar graduate and architectural student at the Institute, the fourth-year Architects triumphed over the fifth-year men in a hard-fought 12-6 football game for the championship of the Rogers Building.

Miss Kelly had been specifically excluded from participation in the game by the fifth-year team in their epistle conveying the challenge. She revenged herself thoroughly for the indignities thrown her way by coaching the team, carrying water for the boys on the front line, and assisting loyally in the cheering led by Hazel Weld, another fourth-year student.

Fourth Year Leads at Start

Fighting a team which far outweighed them, the '32 men were able, nevertheless, to score the first goal, although they failed to make their kick for point. In the third quarter, their betters managed to punch over a score to tie the game. A moment of sloppy playing in the last period gave the younger team a chance, when one of their men intercepted a lateral pass which no one was taking care of.

Game Florid-Gothic

Architecturally speaking, the game might be compared to one of the more florid examples of Gothic design extant. There were flying tackles and one or two half-hearted slugs to take the place of flying buttresses and a magnificent background of shrieking feminine voices to remind one of the gargoyles on the roof line. All in all, the literal-minded science student might be a bit bewildered by it all. The Rogers gang may be unconscious, but they play football like men.

Competition Started For Assistant Track Sophomore Managers

All Men Interested Are Urged
To Report To Manager
Of Track

Two extra Sophomores are needed to fill positions as additional assistant track managers. All men who are interested in competing for the new positions are urged to report as soon as possible in the track office in the track house to the manager, R. L. Fossett '33.

Four Assistants

Contrary to previous practice, there will be four assistant track managers this year, and two vacancies have appeared to be filled with new men. The men coming out for these positions will have to compete, the two best men receiving the appointments. The competitions will continue from today and Friday, November 25 and 27, until December 19 at which time the two winning men will be named assistant managers of track.

Work Starts Immediately

All Sophomores interested may learn the details of the competition by calling at the track office in the track house between 4 o'clock and 6 o'clock today and Friday. Any man interested is urged to interview the manager at one of these times, as the openings are recognized as offering one of the best opportunities of the year for Sophomores to get into Technology activities.

To the Editor of THE TECH:

It is a pleasure to hear one of such lofty mental achievement and universal literary fame cast aside hypocrisy and confirm the worst of our beliefs. I am glad to see that our intellectual elders reserve their criticisms for such time as sedition is rife, for in so doing I am sure that their long-awaited judgment will carry enough weight to stay this pernicious attack on the morals of our future captains of industry.

May I have the venerable Lounger's permission to amplify his altogether worthy and sufficient summary of the evils sponsored by the Crusaders and the devastating effects these evils will have on our nation as a whole and our young hopefuls in particular?

How unfortunate it is that such a fine upstanding government as ours should permit such revolutionary attempts to organize the able bodies of our nation for its own overthrow. Might I suggest that the R.O.T.C. keep a more careful guard on its arsenal? Might I also suggest that the Lounger cooperate with the Dean to expel all those found guilty of singing the Stein Song?

All in all, I wish to congratulate the Lounger on his crusade against the Crusaders and offer him my wholehearted support in the hope that these vermin may be speedily prevented from doing more damage to the greatest of America's infant industries. Canada Dry was off another two points yesterday.

(Signed) F. PRUYN '35.

To the Editor of THE TECH:

It is about time the Lounger realized that he doesn't know what he's talking about. As long as he confines his meaningless patter to completely unimportant subjects, as he fortunately does most of the time, his column does no harm and no good. When, however, he writes such an imbecilic and calumnious article as THE TECH published on the front page of Monday's issue, it behooves those of us who have any desire to prevent our undergraduate news organ from succumbing to the fate encountered by many extra-curricular activities recently, to upbraid the unthinking word juggler.

In that article, the Lounger classes members of the "Crusaders" as "dim wits." Of course this was only a vain attempt at sensationalism, such as should be eliminated from THE TECH if it is to keep, or gain, a reputation. To make it worse, that statement is immediately followed by the banal remark that "the children in it (the Crusaders) are too young to vote." If the Lounger has attained one-tenth the degree of sophistication he tries to impress us as having, he will realize that propaganda is immensely more effective than mere voting. In the very next line, this illustrious editor claims that members are being "sucked in by a gang of wild-eyed reformers." To me, this statement seems to be, speaking mildly, an enormous exaggeration. If, however, we go so far as to admit that it is true, do we find any reason for the Lounger's most venerable wrath rising against an organization existing for the sole purpose of ridding our government of one of the greatest breeders of graft, criminals, and hypocrisy ever witnessed in this country, or in any other since the decline of the Roman Empire? E. H. '35.

Embarrassing Confession Escapes Economic Prof.

"A sudden revival in the woolen textile industry has been observed during the past few months," exclaimed a serious member of the staff in the department of Economics to his class in that subject. "This has been caused," he went on to explain, "by the fact that women's dresses have been growing longer and longer. Also," he added amid questioning looks from the class, "the women are now wearing woolen underthings."

Mills Braunlich Makes Practical Quake Indicator

Device Is Designed To Enable
Construction Of Safer
Buildings

Buildings in earthquake zones will be made much safer by a new type of seismometer which is being developed by Mills W. Braunlich, research associate in the department of Civil Engineering. This new instrument is designed to eliminate much of the guesswork from construction of safe buildings in zones affected by tremors.

Mr. Braunlich's development was announced by the Philosophical Society in Washington, D. C., on Saturday. The meter, unlike the ordinary seismograph which is too sensitive, records the rate of change of speed on the ground during the time of the disturbance, he said in his report, so that buildings can be constructed with allowance made for the rate of change.

This rate of change of speed constitutes, in earthquakes, the destructive factor in building demolition, he explained, and this rate varies greatly in various zones. Heretofore there has been no means for accurate measurement of this change.

In a scientific manner, the seismometer will measure accurately, for the first time, the earthquake wave at, or near, the "epicenter," or that part of the earth's surface where the disturbances are centered. The new instrument is started by an accelerometer, a delicate mechanical nerve which feels the tremors at the centers of disturbances.

Test Flights Made By Professor Sayre In Spite of Weather

No Results Will Be Obtained
From The Observations
For Two Years

In spite of unusually bad weather encountered last week, Daniel C. Sayre, assistant professor of Aeronautical Engineering, went aloft in the newly-acquired testing airplane on all but one day. No definite results will be obtained from the data until it has been collected over a period of nearly two years, according to the pilot.

Originally a four-passenger cabin monoplane, the plane has had one seat removed to make room for meteorological apparatus. The craft was purchased from the Curtiss-Wright Company. Before it was bought by the Institute, the ship had had only eighty hours of use for miscellaneous commercial flights.

Makes Daily Flights

Professor Sayre makes the daily flights to an altitude of 16,300 feet alone. The scheduled time for taking off is 8.15 o'clock. It takes 55 minutes to gain the required altitude, and 20 more to descend, said Professor Sayre. The flights will be made every day that weather permits, except Sundays and holidays, during this, and the next Institute year.

So far, no difficulties have been met, and although no conclusions can be drawn from such a short observation of New England weather, the results are all that could be expected. Except for occasional relief, Professor Sayre will do all the test flying himself.

Meteorological and aeronautical equipment was added to the ship to adapt it to its present use. Some of the notable additions are: a Sperry artificial horizon, a bank and turn indicator, a sensitive altimeter, and a radio receiver tuned to air

(Continued on Page Four)

DRAMASHOP WILL GIVE "MR. ANTONIO" ON THREE EVENINGS

Play To Be Presented On The
Common Room Stage At
Rogers Building

LEAD PART IS RECAST

Dramashop announced yesterday that the first performance of its fall production, "Mr. Antonio," will be given on the evening of December 17. Two more presentations, to be given on the next two following evenings, are planned to allow everyone an opportunity of attending. The play will be put on in the Common Room of Rogers Building, and the seating capacity for any one evening will be very limited.

Several additions and changes in the cast, as originally announced, have been made in the past few weeks. Gustave Kidde '33, chosen to play the lead part of Tony, has found it necessary to withdraw from the work and Felix J. Conti '34 has assumed the responsibility of heading the cast. Kenneth P. Brown '35 has been assigned to the part of Mr. Cooder.

Feminine Parts Filled

All the feminine parts have been filled and will be taken by the following: Pearl, by Virginia Davidson '34, the wife of a character known as "the man," by Hazel Weld '33; Mrs. Walpole, wife of the Reverend Walpole, by Nathalia Ulman '34; June Ramsey, a servant girl, by Priscilla A. Bacon '34; Minnie Riddle, by Isabel Ebel '32, Avilonia Journey by Genevieve Kittinger '35, and Mrs. Cooder, by Helen Moody '32.

Reserved tickets for each of the three presentations, at one dollar, will be on sale from today until the day of the performances. All members of the organization will have tickets for anyone who cares to ask for them.

TECHNIQUE OPENINGS IN STAFF ANNOUNCED

Fraternities Asked To Have
Pictures Taken

A call has been issued by the Photographic department of the Technique for Juniors to start in the competition for the Senior Board position, and also that the fraternity groups who have not had their pictures taken should sign up with the Technology Photographic Service immediately.

All candidates are asked to report at the Technique office on the third floor of Walker Memorial at 5 o'clock this afternoon. The photographic manager takes charge of all individual and group pictures, and the man selected will be in line for the position on the Senior Board.

HANDICAP RACE AT LAST SWIM PRACTICE

This past Monday afternoon at the University Club pool in Boston, the men on the swimming team had their first chance to show their mettle under the strain of competition in a 100-yard free style handicap race. Much interest was shown in the race, and quite a few men competed. The winning time, however, was slow.

An unusually large number of candidates turned out for swimming this fall, totalling about 80 men, which is more than twice the number which turned out last year. This, coupled with the fact that only two members of last year's varsity have graduated, assures the team of the brightest prospects in many years.

No Issue of THE TECH On Friday, November 27

There will be no issue of THE TECH this Friday due to the Thanksgiving holiday preceding this date. Regular publication will be resumed the following Monday, November 30.

A Record of Continuous News Service for Over Fifty Years



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

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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OFFICES OF THE TECH
Walker Memorial, Cambridge, Mass.
News and Editorial — Room 3, Walker
Telephone, University 7029
Business — Room 302, Walker
Telephone, University 7415
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OUR DIVIDED HOUSE

SCIENTIFIC training and practical knowledge may be derived from the same essential roots in an educational system, but when it is attempted to concentrate a curriculum upon the best in each extreme, in the opinion of many, each unit is somewhat reduced in its effectiveness. Time and time again we have heard it asserted that while there is much benefit to be derived from an arts course in the typical American college, to become properly aware of one's intellectual capabilities and to give those capabilities adequate training, one should attend an engineering school. Is this not evinced by the fact that many graduates of the Institute enter fields entirely distinct from those with which their particular courses dealt? In other words, at the Institute we have a two-sided student body, one group interested primarily in the development of their own intellects, the other concentrating upon the mastering of many practical engineering principles.

We may also ask, is it not possible for an education to become too practical, too bound up in data to develop reasons and principles? The direct result of a desire to avoid such a condition may be observed at Technology. Every year we see changes in the curriculum which introduce new and more broadening aspects into the courses. Within the life of the Institute we may see that the underlying tendency has always been, and increasingly so in recent years, to lay greater emphasis upon theory. At present there are several courses which deal entirely with abstract science. The reason for this constant change lies in a desire to develop thinkers and investigators, not necessarily along engineering lines, but in any undertaking where logic and reason play important parts.

Listed in the Institute Catalogue, the primary purpose for the founding of Technology "... is to afford to students such a combination of general, scientific, and professional training as will fit them to take leading positions as engineers, scientific experts, and teachers and investigators of science." We are also informed that the Institute will endeavor "to contribute to the existing store of scientific knowledge and to the promotion of industrial development through the prosecution in its laboratories of original researches in pure and applied science." It is obvious, therefore, that Technology has, from the beginning, endeavored to develop theory along with practical knowledge, to offer courses in the scientific arts, as they are sometimes known, in direct contrast to studies in applicable principles.

Clearly Technology is leaning more and more toward this attitude. Naturally we expect in teaching, that along with every practical point there will be developed the underlying theory, but the Institute is tending to go above practicabilities, and to investigate the theory alone. The correlation between these two ideals of engineering education may in time become extinct, the instruction concentrating entirely upon one or the other.

There is a distinct but quiet revolution taking place in engineering instruction. We are witnessing the development of a new type of education — that which studies the abstract, the causes behind the effects. Whether or not this is to be beneficial to engineering education as a whole, and to the Institute in particular, is a matter for personal judgment.

OPEN FORUM

R.O.T.C.

To the Editor of THE TECH:

Everybody has the itch, and I want it. It is the latest rage, like Empress Eugenie hats, and if a government doesn't have an equal number of battleships, and guns, and trained men, it doesn't feel in style. Oh, how they itch!

In all fairness, and equality of opinion, and justice, let us attempt to agree with Mr. Barbour, and look at Military Science as a desired and needed course. "It is a bad necessity maintained for national defense, and for this reason alone should be tolerated in higher institutions of learning." Let us even go farther and say that one learns to issue orders suitable for adoption in a manufacturing plant by taking advanced R.O.T.C.

It is agreed that the methods of war have changed. No longer is an army dependent on military organization and training to win a war. This was not sufficient in itself to win for the German Army in the World War. They possessed one of the finest-equipped, best-trained armies the world has known; yet she did not win. Wars are fought and won by factories, by enterprising business organizations, and by the fundamental industries of nations.

As the United States is recognized as the strongest nation economically in the world, it seems foolish to maintain an army of men trained in the art of destruction. We have the finest equipped laboratories and the greatest industries, and the best trained men to run them. As these are the unspectacular things which win a war, we spend about \$800,000,000 a year too much for maintenance and preparation for war. There are other reasons just as important.

President Hoover has asked for the cooperation of citizens to cut national expenditures. As war costs us seventy cents out of every dollar paid in federal taxes, it seems that in these times of need we might relieve some of the financial strain by substitution of other courses in hearty cooperation with the President.

However, this does not take care of Mr. Barbour's thirty-five per cent who desire military training after the second year. Military Science with no financial inducements does not offer sufficient background to be attractive to the intellectual students of Technology. My opinion may be incorrect. Why then is the government compelled to pay one hundred dollars per year to each advanced student to secure a satisfactory enrollment?

Let us be fair, and credit each student with earning a hundred dollars by listening to boring lectures. On the other hand, sixty-five per cent of Technology students should be paid to take courses in Chemistry, Physics, or what not. These are constructive courses which are of much more vital importance to the nation than subjects which may never be used.

My personal opinion is that most men taking advanced military training are far more interested in the economics involved at the end of each year than in the actual intellectual advancement. It is clear in my mind that few would be interested in this course should the yearly pay envelope be removed, and Military Science be placed on a fair and equal basis with other courses.

No doubt the ability to issue orders is knowledge gained after arduous effort. I have a picture of some of the reserve officers in charge of factories. Each morning upon entry of our executive, the chief chemist will salute with a graduate. He will then press the button to the dismissal whistle. At the sound of the whistle five hundred chocolate dippers and packers will fall into line. "Right dress!" They will straighten the ranks with much gusto. Then as the boss comes into full view each worker will raise a box of chocolates and place it smartly over the right eye. (Mechanics are allowed to use a monkey wrench for saluting.) As soon as the boss reaches his office, he will shout through the mike: "At ease! Fall out!" Then all will promptly return to work.

Many will disagree with Mr. Barbour, and say that gentle suggestion learned as a member of athletic teams, and in such courses as Public Speaking is far more effective and useful than the ability to command.

Sincerely,
E. L. HALL '34.

Professor Willem de Sitter of the University of Leyden in Holland, believes that with a 200-inch telescope, twice as large as any now in existence, astronomers would be able to see to the end of our universe.

The SPECTATOR

Wet and Dry

About the best thing you can say for the Crusaders is that they mean well. That is damning praise, but it is probably the prevalent opinion at Technology.

Last year's poll revealed that Technology students stood two to one in favor of doing something about the Prohibition situation. But moderation was counseled. The vote was not for straight repeal. No man who professes to talk sense will try to argue that the advantages of repeal would outweigh the obvious and sudden evils which would follow it. We may justly resent Government restriction of our diet, but we don't need our beer as badly as all that.

The Crusader movement is a characteristic result of immoderate and intolerant thinking. It results from the same type of reasoning that forced the Amendment into the Constitution in the first place. Fanaticism works both ways. Turn an Anti-Saloon Leaguer inside out and you have a Crusader.

When Professors Were Young

The Spectator lately had occasion to peruse a copy of Professor Park's recently published "History of the Lowell Institute School." For a Technology man the most interesting feature of the book is the old photographs of professors, taken in the days when they were young, youthful, and in the first freshness of their newly-attained manhood. Professor Park's book is like an old family picture album.

In those days the photographers seem to have been in a conspiracy to make every subject look as foolish as possible. Not unnatural enough to make the picture an obvious burlesque; but just sufficiently stiff and pseudo-dramatic to make people laugh twenty or thirty years later. It was a very clever conspiracy, and the idea of the time lag was well worked out. Of course, some of the objects were undoubtedly stiff and nervous, never having undergone the ordeal before. But the effect as shown in group pictures could not have resulted otherwise than from diabolical design. Some of the old pictures resemble those stuffed-animal groups which you see in a science museum; professor *technologensis* in its native habitat, as it were.

In Professor Park's book you will find pictures of Burnham (with moustache), Haven, Drisko (as hirsute as ever), Laws, Lawrence, Sandman Johnson, Eddie Miller, and a lot more. The only one who looks natural is Eddie Miller. Eddie seems to be the local Peter Pan; he looks just about the same after twenty years. The Spectator has long been convinced

that Eddie would look natural anywhere, under any circumstances.

L'Envoi

And now it comes to pass that the Spectator must have his picture taken for *Technique*. After viewing some of the mutilated maps that have issued from the Photographic Service, he fears the worst. Now is the time when he regrets those midnight hours spent in doing Lab reports when he should have been catching up on his beauty sleep, which he needed badly. And after the above remarks anent photographers, the T.P.S. will probably do their worst. Revenge is sweet.

As We See the MOVIES

R.K.O.-Keith's

"Suicide Fleet," the Pathe picture now being shown at the R.K.O.-Keith Theatre, portrays the adventures of three buddies in the U. S. Navy during the World War. As is usual with war pictures, a sensational battle takes place and the heroes all come out alive to give a happy ending.

The plot is weak, but the interest of the picture is saved by the amusing incidences that are scattered throughout as well as by the massive scenes portraying the battles. The leading parts are played by Bill Boyd, Robert Armstrong and James Gleason in the roles of Dutch, Sheets, and Baltimore, three Coney Island concession operators in love with the same girl, and all of whom join the Navy at the outbreak of the war. One thousand sailors were loaned by the Navy Department for the filming of this picture. D. H. C.

(Continued on Page Four)

DINNER 45c. UP

LYDIA LEE

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RED NICHOLS
And his TEN PENNIES
Friday, November 27 at the Statler
NINE TO THREE
Saturday, November 28 at the Bradford
EIGHT TO TWELVE
ALSO ON FRIDAY
LEW CONRAD
And his MUSKETEERS
L'envoi
Couple \$5.00
Stag \$3.00
Tickets at
T. C. A. OFFICE
Walker Memorial

SUCCESSFUL YEAR CLOSED BY CROSS COUNTRY RUNNERS

Varsity and Freshmen Make Good Record in I.C.A.A.A. Meet This Fall

COURSE IS MADE EASIER

Cross-country running for this fall has come to an end with the varsity and freshmen teams having the best seasons since 1927. In the I.C.A.A.A. competition, both teams finished several positions better than in the previous year, while in the New England races the varsity showed up better than the less experienced yearlings.

By comparative scores it will be noticed that the times for the races in the past four years have been growing better. In Van Cortlandt Park in New York City the trail for the runners is being made easier and easier each year. Men are employed to remove all obstacles from the track, thus making it more of a road race than a real up-hill-and-down-dale contest.

New Record This Season

In addition to this the six hurdles corresponding to the regulation high hurdle have been removed from the course. The time for the six miles in 1925 was 30:24. This fall, Dean of the University of Pennsylvania, lowered the time to 29:43.

Technology's most important cross-country competition is, however, in the New England races. These races are the real old-fashioned cross-country runs. No attempts have been made to make the course easier for the runners and consequently endurance is one of the most important qualities of a good cross-country man.

Varsity Is Less Successful

For this reason Technology's teams have not been so successful in the meets held in New York since the course was changed. Proof of this is the comparative scores shown below. It will be noticed that before 1927 the varsity was finishing around fifth place and the freshmen doing equally well. With the inauguration of the better course both Technology teams dropped many positions because they were not accustomed to the high speed required to finish with the leaders.

Varsity standing for the past seven years in two main harrier events of the season is as follows:

T.C.A.A.A.A.			
Year	Team's Position	Places	Total
1925	7	14-26-36-48-62	186
1926	5	10-17-26-44-48	145
1927	5	13-18-23-34-62	150
1928	10	24-30-41-55-68	227
1929	11	30-36-66-71-91	294
1930	13	34-59-62-68-74	297
1931	9	37-48-50-57-59	250

NEW ENGLAND			
Year	Team's Position	Places	Total
1925	5	7-11-14-27-31	90
1926	3	2-9-12-27-30	89
1927	2	4-9-15-23	69
1928	5	11-19-34-47-49	160
1929	3	9-13-23-28-34	107
1930	4	3-25-29-30-31	118
1931	2	7-10-15-22-23	77

Coach Summers Picks Teams By Bumper Tourney

First Fifteen Survivors Of The Competition Will Make Up The Varsity

With the first scheduled meet for the quash teams coming off on December 5, Coach Jack Summers has devised a unique method of selecting the teams which will represent the Institute at this contest and at all contests to be staged in the future. He will choose his varsity teams from the first fifteen top men of the bumping tournament one week preceding the match. This is to enable the coach to notify the men chosen and to give them some coaching during the days before the contest.

From the first men on the list Coach Summers will compose the first varsity team and substitutes; and from the remainder of the chosen men he will make the second varsity team and substitutes. Likewise, the Faculty-Graduate team and the freshman team will be chosen from the top men in the bumping tournament of each division.

Bumping Rules Defined

Coach Summers urges the men to play many games as possible in order that a reasonably accurate classification can be made of the candidates for the various teams. Following November 28, all challenges must be played within three days of the date of challenge; if not, the game will be considered defaulted. Also, no

SPORTS DESK

Over at the track house, things have started up in earnest for the winter season on the boards. Coach Hedlund is attempting to keep the men on the cinder track as long as possible, but with the advent of much more cold weather, particularly when the snow comes, the men will have to work on the twelve-lap board track, behind the track house.

man is required to play more than two games a week and a man cannot challenge a candidate whose standing in the bumping tournament is more than three places before his own.

Opponents of First Match Named

On December 5, the following matches will be held, according to the recently-published schedule book of the Massachusetts Squash Racquet Association. The Faculty-Graduate team competing in Class B of the association will meet the Boston Athletic Association at the Institute.

Technology's first varsity team, which is in Class C, will be pitted against the Boston Athletic Association's Class C team. The freshman team will meet the Salem Club Class D team at Technology.

Last year's championship freshman mile team will contribute several men to the varsity mile relay for this year. Among the men who are working out daily are Capt. Johnny Jewett, Al Mulliken, Walsh, Wood, Wrigley, Sousa, Rees Schwarz, and Rudy Rosas. Everyone of these men has been a heavy scorer for the Institute track team in the past, and there is every prospect of a good mile relay this year.

Bill Jewett credited himself with some fine performances last year, and much is hoped for from him in his last year with the Institute team. Mulliken is another old-timer who has raked in points regularly for Technology in the shorter races.

Kearns will head the list of the varsity two-milers this year, it is expected. He will be ably seconded by the four men who did so much for the freshman team last year, Barrett, just elected captain of next year's cross-country team, Charlie Hall, who last year set a new Institute freshman record for the mile run, along with Bob Mann, and J. G. (Goochy) Smith. Plenty of good work may be expected from this combination. Every man is a runner of proven ability and strength.

Thus far along in the season, it becomes reasonably safe to make a casual estimate

of the freshman team. "Red" Holby, who captained the yearling hill-and-dalers this year, has lots of running in him, and has brilliant prospects in the middle-distance runs, as well as his teammate, Doug Chalmers, who bested him in the Intercollegiate cross-country runs down in New York.

Four others that have been outstanding in their performances so far are Nelson, Lytle, Holly and Horton. Each of these men came out for track before the P. T. requirements forced them to do so, and they are benefitting by the extra amount of training, to the extent of bringing them far above the rest of the aggregation. Last year's freshmen set a fine example to every freshman track candidate, and with such a precedent any team would be inspired to its best. Counting up the likely prospects, this year's team will not disappoint expectations in this respect, as its material is pretty good.

Anderson, one of *Voo Doo's* touchdown fiends, has an alleged broken rib. This has held up the battle of the centuries, and the time has not yet been set definitely for the final playoff. The game really ought to be pretty fast and even. Both the teams beat their opponents in the semi-finals, by superior power, and appear

to be evenly matched. *Technique* is reported to be holding practices in secret, and to be ready for *Voo Doo* with a bewildering array of new and flashy plays.

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Edmund Lowe



Who can forget Edmund Lowe as "Sergeant Quirt" in "What Price Glory?" That mighty role made Eddie famous in filmland—and he's more than held his own in a long line of talkie triumphs. We hope you saw him in "The Spider." And be sure to see him in the Fox thriller "The Cisco Kid."

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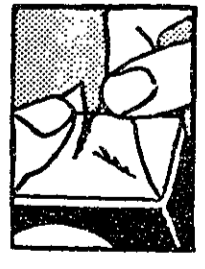
TUNE IN—The Lucky Strike Dance Hour, every Tuesday, Thursday and Saturday evening over N. B. C. networks



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CALENDAR

Wednesday, November 25
 6.00 p.m. — Instrumental Club meeting in East Lounge of Walker Memorial.
 9.00 p.m.-2.00 a.m. — Archimedes Club dance in North Hall of Walker Memorial.

Undergraduate Notices

DARTMOUTH-STANFORD TICKETS

The T.C.A. Ticket Service has five tickets for the Dartmouth-Stanford football game to be held at the Stadium next Saturday at 1.30 o'clock. The price is \$4.00 each.

Infirmiry List

Harvey, Gardner '33
 Paulsen, Norman '33
 Wuestefeld, George '34

NORMAN THOMAS SHOWS ENGINEER'S PLACE IN SOCIETY

Engineer Is Keystone To Future Of Present Industrial Civilization

GUEST OF LIBERAL CLUB

(Continued from Page One)

more than all the soap-box orators, according to Mr. Thomas. Previous to his times, inventions were "accidental and incidental"; during Edison's time, "invention became a conscious process."

Social organization of the age of the "covered wagon" is not fitted for the machine age; "antiquated customs and codes are no good for a highly-specialized period." Mr. Thomas summed up the situation by the statement that "The modern engineer knows more and more about less and less."

Mr. Thomas bewailed the fact that modern technical progress is not the work of individual workers of Edison's type, but the work of research workers for monopolistic corporations. The hope of society is now not the *entrepreneur* but the trained engineer.

Collectivism Necessary

Efficiency in this machine age calls for large groupings. Thomas said that the "blessings of individualism" of Adam Smith were overshadowed by the need for efficiency, collectivism being the way out.

Capitalism collectivism is not satisfactory, according to Thomas. Gardiner Means, Columbia University economist, shows in his statistics that two hundred business corporations control forty-five per cent of the business wealth of America. These corporations are controlled by two thousand directors, many of whom are inactive or ignorant of the work of the companies which they control.

Decline of Individualism

Herbert Hoover's administration witnessed the decline of individualism. Entering into office a rugged individual, he has had to consent to collectivism. The tariff is a good example of paternalism and the decline of individualism.

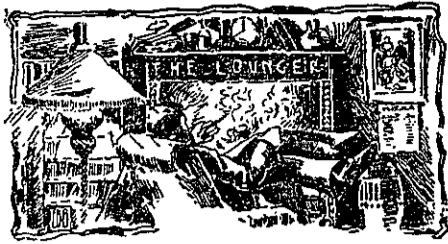
Thomas claimed that a present captain of industry is a juggler of industrial accounts; he doesn't know anything about his industry; he relies on helpers to run his business. Mr. Thomas asserted vigorously that our democracy of Capitalism is the craziest ever, that our theories do not match our practice and that technological progress is far ahead of social practice.

Engineers Have Saved Society

New social building is necessary as the choices of peace or war which will shape the next generation will be decided very soon. There is no longer necessity for a sham capitalism. The danger that we have to face is the too rapid collapse of Capitalism.

Mr. Thomas said that Russia alone is on the upgrade. She has had her social revolution. All the rest of the world is on the downgrade. Mr. Thomas does not propose that the engineers lead a revolution but rather that they influence it. The engineer should be allowed to use his insight into social questions without being penalized.

To obtain this liberty, the engineer should form some kind of union. He should participate in politics; by thus doing, his social freedom will be gained. Mr. Thomas concluded by appealing to the engineer to side with the worker.



Rather startling results were obtained recently when Professor Magoun asked the men in his G31 section to record the answers offered by some of their fairer friends to three simple questions.

"Why doesn't a steam roller go as fast as a locomotive?" was a question that seems to have caused but little trouble in the minds of those questioned. "It can, but it just doesn't," seemed to one fair stenographer to be a satisfactory answer. A more technically-inclined young lady replied, with little hesitation, that, "The center of gravity is lower in the steam roller."

Two Wellesley students were heard attempting to answer the query, "What keeps a trolley on the track?" It was finally decided that electricity and the motorman contributed equally. Perhaps, however, the most difficult question in the group was worded as follows: "What is the change in weight of a car if each tire is pumped up so as to contain sixty pounds of air?" After rapid calculations with paper and pencil, a Radcliffe student replied, with the customary Radcliffe assurance, "Seven tons."

Lord Jeff was banned at Amherst when the magazine published dope that was not in good taste. This is characteristic of the usual Faculty attitude, "Now Johnny, run along and play; you may not have your lollypop." At Yale only Seniors drive cars; at Princeton, only graduate students and the managers of the four major sports are allowed to drive. It is not surprising that prominent Faculty members at Yale and Princeton are endorsing this kid game of "On to Jerusalem."

This attitude of juvenile treatment is spread throughout our college systems. At Bowdoin, for example, that lost little college in the woods, there is a student tax. Now student taxes are quite respectable animals. We have one at Technology which supports athletics. But here is the difference: we have a budget committee with all student members and a student chairman. This committee approves the sports budget for the year. Its findings are subject to approval by the Advisory Council, but even this council has student members. At Bowdoin the budgeting is in the hands of a strictly Faculty crew. The students pop in one at a time and beg for a little gravy to run their activities. What a swell mess that is! If the men are not capable of handling their cash themselves or capable of being trained to do it, the college should specialize in instruction for the feeble-minded.

Now comes a light of hope through all this dreary fault-finding, the energetic little lady who is installed in the Walker Library set the wheels in motion to attempt the recording of Technology Songs. The Lounger understands that this may be done. Rumor hath it that the Musical Clubs can do the vocaling of the Stein Song and Victor will record it if two thousand sales are guaranteed. The Lounger hopes the Institute Committee will get behind this and push it. He summons all men who are tired of 1926 musical comedy music to rally to the standard and get the Stein Song recorded. With fraternities, students, dorms, Faculty, Alumni, and the Lounger behind this, it can't fail.

While in a particularly paternal mood and dispensing sage advice, free gratis for nothing, the Lounger wishes to slip a word or two into the ear of the newly-elected Junior Prom Committee. It seems fated that our prom committees try so hard to get a big band for the hop that they fall all over their feet and end up on their noses. Last year's fiasco is a good example. The filler team of Leviathan players was ten-to-one better than the supposedly popular Barney Rapp's crew. Why not get a good orchestra (one, not two or three), without a lot of inflated reputation, and use the extra cash to provide decent favors? The favors in the past have been horrible, varying all the way from stationery to shoe trees. Ye great and cock-eyed gods, what a favor! Save on the band and hand out acceptable favors and decent food, says the Lounger.

More to add to this orchestra business. The Scabbard and Blade whirl at the Commander had Johnny Goodman's col-

HERBERT S. GOTT DESCRIBES SOCIAL WORK IN ESTHONIA

President Compton Presides At Meeting Of Students And Faculty

WAS ABROAD 18 YEARS

"You can't build a civilization on only a material basis." Such was the opinion expressed by Herbert S. Gott '10, as he addressed students and Faculty members in a meeting at which President Compton presided last Monday at 4 o'clock in Room 10-250.

At the request of the Technology Christian Association, Mr. Gott came to Technology to describe his experiences as a social worker in several European countries, including Esthonia, where for eleven years he has been the American representative of the Y.M.C.A. His subject was "Rebuilding a Nation."

Arrived in 1920

Arriving in Esthonia in 1920 he found the country in distress, he said. The manhood of the country was weakened by the war and men to act as leaders could not be found. It was necessary, he declared, to create leaders of the people. "It took me eleven years of hard work," he stated.

In an effort to detect and develop leadership in the youths of the nation, boys clubs were organized, Mr. Gott said. Athletics and other activities were sponsored and an effort was made to provide education for the boys who showed unusual ability.

His greatest task, Mr. Gott declared, was to teach the youths the idea of fair play and tolerance, of which he said, they had no conception. It was a long battle, but the appreciation of the Esthonian people was expressed as Mr. Gott and his family were leaving the country last May. Scores of people were at the dock to thank him and ask him to return. In concluding his talk, Mr. Gott said, "I don't see how you can save civilization unless you develop the inner streams in men."

Honored at Dinner

Speaking at a dinner given in his honor by the Advisory Board of the Technology Christian Association, Mr. Gott described some of his personal experiences in Russia, Esthonia, and in Manchuria, the scene of the recent-Sino-Chinese dispute. Twenty-six persons were present, including several members of the T.C.A. Advisory Board and members of the Faculty. He also addressed a luncheon meeting of the Faculty Club at noon.

ARMY DEMONSTRATES NEW POWERFUL LIGHT

Captain Eaton Flies Bomber Equipped with Invention

Captain Eaton, commandant of Rogers Field in Pittsburg, flew over the city in a Curtiss Bombing plane with one of a new type of powerful searchlights mounted on the front cowl of the ship. He nosed the plane toward one of the large hotels in the city where had been planted a photo-electric cell. The beams of the light set off a flare from the roof of the building, set off by the cell action.

This new searchlight, a very compact unit weighing a little more than fifty pounds and about eighteen inches in diameter, yet which may throw a beam visible for more than fifty miles, employs a 250-watt lamp and may be operated from an ordinary storage battery. It is the world's smallest searchlight and yet one of the most powerful.

"Under battle conditions," stated Captain Eaton, after the flight, "night flyers feel their way in pitch dark far above the enemy lines or over cities, and with this new light there would be no uncertainty whether or not bombs were falling on the city. Troop movements at night no longer would be a secret."

ored crew. This was a ten-piece army far superior to last year's Prom music. Why not get Johnny or someone like him? A couple of years ago, Leo Reisman played at the Junior Prom. This year it was given at the Statler, and rhinestone bags were the favors. Why can't a Walker dance with an equally good orchestra be given, with the saving on rent and band sunk into favors? This is a rhetorical question to which everyone knows the answer. Well, go thou and do likewise.

HEAT INSTRUMENTS SHOWN YESTERDAY

Travelling Exhibit Displayed at Institute Has Covered 84,000 Miles

Various forms of thermometers and other temperature measuring instruments as well as several other types of indicating and recording instruments made up an exhibit yesterday in the basement of the Steam Laboratory which drew a considerable crowd of passers-by.

Supplied through the courtesy of the Taylor Instrument Company at the invitation of Professor Edward F. Miller '36, head of the Mechanical Engineering Department, and Professor J. J. Eames '02, in charge of the Steam Laboratory, the exhibit is one which to date has travelled nearly 84,000 miles and visited thirty-nine states, Mexico, and Canada.

A range of nearly four thousand degrees Fahrenheit is covered by thermometers measuring from 328 degrees below zero, to thermo-piles and thermo-electric junctions measuring as high as 3600 degrees above. There are also a number of other thermometers with maximums of from two to nine hundred degrees, suitable for measuring the temperature of steam and flue gases. Thermo-couples of various temperature ranges, both portable and for permanent installation, were shown as well as several meters of the recording type.

Other instruments included several wet and-dry bulb hygrometers, a sling psychrometer, barometers, altimeters, and many home and clinical thermometers. A number had sections cut away to show the construction, and many samples of thermometer tubing of almost invisible bore were shown.

A representative of the Taylor Company stood guard over the delicate and expensive collection and explained their use and construction.

As We See The Movies

(Continued from Page Two)

R.K.O.-Keith-Boston

Bill Robinson and his Dark Cloud of Joy are featured at the Boston this week; the accompanying cinema is "Men In Her Life," with Lois Moran and Charles Bickford. To this reviewer, the program seemed distinctly below par.

Bill Robinson is one of the best tap dancers we have ever seen, and he is a pleasure to watch; but you can't build a whole revue, even a small one, around one man's dancing. The rest of the show, although funny in spots, was a second-rate imitation of Broadway productions. One scene, in a church, of all places, was in distinctly bad taste.

The picture had nothing to recommend it; it was a blend of all the plotless, characterless pictures we have seen. This program is disappointing, especially from the Boston.

C. W. S.

Fine Arts Theatre

With humor that delighted the patrons able to understand the rapid German of the dialogue, "Die Grosse Sehnsucht," current offering at the Fine Arts, follows the career of a young actress in her quest for stardom in a movie colony and shows the workings of the production end of German films.

After many misunderstandings and considerable excitement, Eva von Loe, played by Camilla Horn, reaches her objective and is given a reception attended by the greatest stars of the screen. Her love affair follows through her success and figures large in the climax of the film.

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Yacht of Late Coleman DuPont to Hunt Pirates

"The Tech" will soon be harassing oyster-pirates and crab-robbers in Chesapeake Bay. "The Tech" is a \$100,000 steam yacht owned by the late T. Coleman duPont '84. Mindful of her late husband's interest in the protection of Maryland's oyster beds, his widow has presented "The Tech" to the State Conservation Department to be used as the flagship of its patrol fleet.

TEST FLIGHTS MADE IN SPITE OF WEATHER

(Continued from Page One)

beacon and weather broadcast signals. Movement of air masses is the technical phrase applied to the phenomenon to be observed during the testing. Some measurements of cosmic rays, never before measured from an airplane, will also be attempted.

Professor Martin Sprengling of the University of Chicago believes that a Bedouin foreman of a mine, working for the Egyptians in the half century between 1850-1800 B.C., first used the characters which have developed into the modern alphabet.

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