

Former Editor of Christian Science Monitor to Speak

The Tech Will Hear W. J. Abbot
at Annual Banquet
Next Week

COMPTON ALSO TO SPEAK

Willis J. Abbot, member of the editorial board and former editor of the Christian Science Monitor, will be the principal speaker at the annual formal banquet of THE TECH next Thursday evening at the Parker House, in Boston. President Karl T. Compton will also address the gathering.

Mr. Abbot has had a long and noted journalistic career. He has been at various times managing editor of the Chicago Times, editor and part owner of the Battle Creek, Michigan, Pilgrim, chief editorial writer of the New York American, and a writer for the New York Journal, New York Sun, Chicago American, and Collier's Weekly. He was editor of the Christian Science Monitor from 1921 to 1927, and is now a member of the editorial board.

A number of books on the U. S. Army and Navy have been written by Mr. Abbot, in addition to several other books.

Founders of THE TECH to Attend

Arthur W. Walker, '82, first editor of THE TECH, and Isaac W. Litchfield, '85, and Arthur D. Little, '85, members of the first managing board, will be present at the banquet. Gerald M. Keith, '12, a former editor of THE TECH, will also attend.

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J. M. BIERER WILL ADDRESS A. C. S.

Northeastern Section Will Hear
Talk on Rubber Compounds

"Developments in Rubber Compounding During the Past Twenty Years" will be the subject upon which Mr. John M. Bierer will address the Northeastern Section of the American Chemical Society at the American Academy of Arts and Sciences, 28 Newbury Street, this evening at 8:00 P. M.

Mr. Bierer, factory manager for the Boston Woven Hose and Rubber Company, is noted for his wide experience with the chemistry of rubber. Judging from the titles of the more important papers that he has delivered, the audience may expect to learn how to make rubber red, how to test rubber to find how long it will retain its "stretch," and how reclaimed rubber may economically be used as a substitute for new rubber.

A dinner at the Engineers Club, with a reception of the members of the section, will precede the meeting as usual. The dinner will be followed by the showing of a two-reel film entitled: "Time-accelerated Colloidal Phenomena and Brownian Movement" at 7:30. All those who are interested are invited to attend the meeting and to see the movie.

SUBSTITUTIONS IN P. T. TO END SOON

Men who wish to substitute some sport for Physical Training during the next term must put in their applications before tomorrow noon. They should sign up at the office of Henry P. McCarthy, Director of Physical Training, before this time or they will be assigned to a regular class.

Men who are in the P. T. sections at present can transfer to a sport provided they have no cuts to make up. Men in sports will be allowed to continue only if they have no cuts against them.

Stratton Prize Contest Poster Prize Contest

A five dollar prize is now being offered for the best poster advertising the Stratton Prize Contest. All entries must be in Dean Samuel C. Prescott's office before Saturday, Feb. 10, at 1:00 P. M.

The Stratton Prize Contest offers prizes of \$50, \$30, and \$20 for the best scientific or semi-scientific paper received. The papers are to be of about 12 minutes each, and will be presented on Class Day. The papers will first be read before the several Professional Societies.

MARINE SKETCHES GIVEN TO MUSEUM

Publisher of Boston Globe Is
Contributor

A collection of 37 marine pencil sketches by the late William Bradford has been presented to the Nautical Museum of the Institute by Charles H. Taylor, publisher of the Boston Globe, who from time to time has made notable contributions to the Institute's collection of marine prints. The drawings are now on permanent exhibition in the museum.

Bradford, a native of New Bedford, Mass., began his distinguished career as a marine artist by painting ships in the harbor at Lynn and along the coast as far north as Nova Scotia and Labrador. He made several trips with Hayes, the Arctic explorer, into the ice regions of North America for the purpose of sketching and study, and his representations of ice floes and icebergs have been exhibited in this country and in London.

The group of sketches presented to the Institute by Mr. Taylor exemplifies the ease and spontaneity, as well as the careful treatment of detail, which characterize this artist's work.

TECHNOLOGY AIDS ACCIDENT SURVEY IN MASSACHUSETTS

C. W. A. Funds Made Available
for Comprehensive
Investigation

Under the direction of the Institute, a scientific survey of automobile traffic in the state is being conducted to enable authorities to determine safe speeds and methods of vehicle operation under varying conditions. Together with the analysis of automobile accidents already completed by engineers of the Massachusetts Highway Accident Survey, it forms what is believed to be the most comprehensive scientific investigation of its kind ever undertaken.

The accident analysis was made by a group of engineers working under the direction of C. P. Taylor, traffic engineer of the department of public works. The information is being applied in the form of maps which will show traffic danger spots on the various highways of Massachusetts. With the addition of information from local police records and field studies it is expected to be possible to make definite recommendations to each community in regard to stop signs, traffic lights, and road construction.

Information developed by analysis of state accident records, which is supplemented by local reports, is being compiled with the object of creating a definite plan of remedial procedure over a period of approximately 10 years. The survey is being made at the request of Governor Ely under the direction of the Massa-

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Clarence Moore Wins Competition for Oxford Prize

Graduate Student Is Awarded
the Rhodes Scholarship
at Washington

Clarence R. Moore, a graduate student at Technology was one of the thirty-two American students awarded Rhodes Scholarships. He is at present returning from Washington where he entered the competition. Other men from Massachusetts colleges who won scholarships are Daniel Boorstin and Richard B. Schlatter of Harvard.

Moore is a graduate of the University of North Dakota, class of 1933. He is pursuing graduate work in the Electrical Engineering Department leading to the degree of Master of Science. His home is in Grand Forks, North Dakota.

The Rhodes Scholarship, which was established by Cecil Rhodes of African fame, is equivalent to about \$2,000 per year for three years. It provides for two years of study at Oxford with a third year either at Oxford or some other university of the student's choice.

FORMAL DINNER DANCE WILL BE GIVEN BY DORMS

Fourth Annual Event Comes on
February 9 in Walker
Memorial

The fourth annual Dormitory Dinner Dance will be held this year on Friday, February 9, in the Main Hall of Walker Memorial, it was recently announced by the Dormitory Committee. The dinner and dance, which will be formal, are under the direction of a special committee which has been chosen from among members of the Dormitory Committee to take active charge.

Dinner will be served at about seven o'clock, with dancing following a short time later, continuing until three o'clock. Open house will be held in the dormitories before and during the dance.

Admission to the dance will be \$4, and the remainder of the expense will be carried by the Dormitory Committee out of the profits from previous dances. To facilitate the arrangements, sign-ups for tickets and table reservations will be obtainable in the Dormitory Committee Room on January 15, 16, 17, and 18 between eight and nine o'clock in the evening. The costs of sign-ups will be \$2 per subscription, and if those who desire them apply early enough, they will be able to secure complete

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T. E. N. WILL PRESENT NEW VERSION OF FLASHING LIGHT MYSTERY WEDNESDAY

Junior Devises Phenomenon
Which Is Expected to Baffle
Guessers; February Issue Out
at Same Time; Will Have Articles
on Weather Forecasting
and Philosophy

Continuing its policy of baffling the student body monthly with mysterious but very scientific devices, T. E. N. will offer a new version of its now-famous mystery, The Flashing Lamp, in the main lobby Wednesday.

To provide a piece of apparatus particularly suited to the "Technological" mind, the staff has constructed its own exhibit. James D. Parker, '35, is responsible for this particular physical phenomenon.

This "Master of Mystery" has given the problem a new twist by ex-

Bring Your Registration Material to Room 3-106

All registration material must be in the records office, Room 3-106, before 1 o'clock this afternoon to avoid the \$5 fine for late registration. Do not, however, put it in an Institute mail box today in hopes that it will be delivered before 1. If you have not previously returned your registration material to the records office deliver it directly at the office, Room 3-106.

Fees for tuition do not have to be paid until Thursday, February 1. These are paid at Room 10-180. As with late registration material, tardy payment of fees results in a \$5 fine. Bring your registration material to Room 3-106; do not mail it.

UNWIN CONCLUDES PUBLIC LECTURES

Final Talk on City Planning Was
Presented Yesterday

Sir Raymond Unwin, noted British authority on city planning and visiting lecturer in the Architectural Department, delivered the last of a series of distinguished public lectures on city planning yesterday in Rogers Building. His topic was "The Place of Imagination in City Planning."

Sir Raymond is internationally known for his contributions to architecture and long range planning of towns and cities. He has served as chief architect to the British Ministry of Health and as technical adviser to the Greater London Regional Planning Committee. He was formerly head of the Town Planning Institute, and is a fellow and former president of the Royal Institute of British Architects.

PHYSICAL SOCIETY ELECTS OFFICERS

At a meeting of the Physical Society held on Friday, January 5, the following officers were elected: William W. Buechner, '35, president; Walter Wallin, '35, vice-president; Edward F. Gaughan, '36, secretary-treasurer; Jacob Millman, G; Arthur O. Williams, '34; Howard E. Tatel, '35; Milton B. Dobrin, '36; and Will Lyons, '37, members of the executive committee.

Members of the Physical Society are actively engaged in preparing their exhibit for Open House day. They are constructing a ten-inch astronomical telescope which, when finished, will be a precision instrument of high quality.

Expect Large Attendance at Senior Dance

Tickets Going "Like Wildfire"
States Committee
Chairman

AL STARITA PLAYS

Every member of the senior class will be present tonight at their annual exclusive formal dance, according to Henry D. Humphreys, chairman of the committee, who says that the free tickets have been going "like wildfire." As scheduled, the affair will take place tonight in Walker Memorial from 9 to 2:30.

Music will be furnished by Al Starita's orchestra, already well-known to Tech dance-goers by virtue of its playing last year at the Senior Prom, and this year at the recent Boat Club Dance. The orchestra is one of widespread fame on both sides of the Atlantic. For the past eight years it has been playing in London and on the Continent. Al Starita and his orchestra have played at the Savoy Hotel, the Kit-Kat Club, and the Piccadilly Club.

The affair is an annual one, given free for Seniors only, and subsidized by funds from the Senior class treasury. According to Institute rule, \$8 of each student's tuition is given to

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DEBATE TODAY ON VALUE OF N. R. A.

Open Forum Discussion to Follow
Delivery of Speeches

A debate and open forum discussion on the virtues of the N. R. A. as a permanent feature of the United States Government will be held today in the East Lounge of Walker Memorial at 5:00 P. M.

Members of the M. I. T. Debating Society will take part in the debate, which will consist of two four minute speeches on each side of the question. Instead of the customary rebuttal, general discussion will prevail, in which either members or non-members may participate.

It is expected that the subject will provoke much comment, since it is a very timely one, and one with which everyone is vitally concerned.

The Debating Society was formed this year, by a number of men interested in conducting such open forums as today's, and in engaging in debates with other colleges. A number of challenges have already been sent out, and it is expected that a schedule will soon be drawn up.

Those in charge of the arrangements for the bi-weekly discussions plan to vary them as much as possible. For example, it is proposed to conduct the next one in the manner of a courtroom trial, embodying such features as examination and cross-examination of witnesses.

GLEE CLUB GIVES CONCERT AT COLBY

For the first time in the Musical Club's history, the Glee and Banjo Clubs will give a concert for Colby Junior College, New London, N. H., at 7:30 P. M. tomorrow. Buses will leave the Institute at 11 o'clock tomorrow morning. Following a rehearsal in the afternoon at 3 o'clock a tea dance will be featured for the clubs. A dance will be sponsored by the Music Department of Colby after the evening concert. It is expected that about sixty men from the clubs will attend and perform in the concert.

Plans are being made for a Pops Concert to be held February 21, the eve of Washington's Birthday, at which a popular Boston orchestra will be featured until 3:00 A. M.



MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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In charge of this issue: A. M. York, '37

THE HARD WORKING ATHLETE

THERE has been a great deal of discussion concerning the relative merits of Technology athletic teams and those of other colleges. Whatever the success of the Institute teams, their performance cannot be measured in terms of scores alone. Technology teams are seriously handicapped both by lack of facilities and time to practice. Thus we find the crew practicing early in the morning or late in the evening, while the hockey team and the swimming team must travel to Boston for practice.

Besides carrying a full academic schedule, many of those who go out for sports are earning their way through college. According to a report by the Publicity Manager of the M. I. T. A. A. at least six per cent of those taking part in sports must give part of their time to regular jobs. The number employed is probably higher than this since it is possible to get a record of only those students who obtained employment through the T. C. A.

Under these conditions we can hardly condone any criticism which claims that Technology teams suffer from lack of spirit. If we are searching for a reason for the poor showing of any team we must look elsewhere for the cause.

CO-OPERATION NECESSARY

AT a recent meeting the Institute Committee decided not to recognize the group of students who wish to form a railroad club. These students form a representative group of Technology men interested in a recognized technological subject. They could not find outlet for their interest in any of the regular professional societies, which out of consideration for the interests of the majority of their members can not hold a sufficient number of railroad discussions. Moreover, inasmuch as the men interested in railroading are for the greater number not members of a professional society, there can be very little possibility of a railroad club interfering either with the programs or the membership of the professional societies. Further, the Institute Committee is not called upon at any time to practice paternalism.

The only support left then for Committee's refusal of recognition is the possibility that a railroad club might turn out to be only a temporary affair. The Institute Committee did not base their action on this possibility.

In view of the smallness and possible velocity of a railroad club we believe it best for the men interested in such a body to seek to cooperate as, perhaps, a sub group of one of the professional societies rather than to attempt to get direct recognition from the Institute Committee itself. We have reason to believe that the professional societies would be glad to extend such cooperation to the group of interested men. This would save them the trouble of permanent organization, and at the same time provide satisfactory outlet for their interest.

STRONG SILENT MEN

ALTHOUGH we have no desire to set ourselves up as a modern Mrs. Grundy we cannot refrain from protesting against the wierd noises which sometimes emanate from the throats of Technology undergraduates. It is the custom for certain of the more musically inclined to whistle or even lift their voices in song (to be polite) whenever they leave a class. Perhaps it is a song of rejoicing or merely an expression of well being but in any case the result is apt to be distressing to anyone unfortunate enough to be within earshot.

Loud whistling is especially penetrative in offices and class rooms where people are working and should have quiet. Not as a matter of dignity but out of consideration for others we should make it a point to control such exhibitions of inner emotion. These strong, silent Technology men.

HUMAN MISFITS

ONE of the measures promulgated by the Nazi Government is the sterilization law, which goes into effect tomorrow and under the terms of which about 400,000 social misfits with clearly established hereditary physical and mental defects are to be immediately prevented from propagating their own kind. The purpose is to aid in the development of a physically fit and mentally sound race by preventing the dissemination of heritable disabilities.

Apparently this is a step in the right direction. According to Dr. J. H. Landman one-fifth of the population of the United States today is surplus—a mass of people that is socially unadjusted and that we can never altogether properly absorb into our social and economic life again. Yet he would hesitate to perform the Steinach operation on these 25,000,000 social misfits. In his objections he significantly added that what the so-called science of eugenics needs is "more research and less propaganda."

In view of the Nazi political creed and its arbitrary classification of races into "Aryan" and "non-Aryan" there is considerable doubt that the present law will not work great injustice in many cases even assuming that doctors now have enough knowledge to infallibly detect carriers of defective genes.

In the United States, sterilization of certain classes of defectives is practiced in several states. The case of the Jukes family is a classic illustration of the reason why. If proper tests could be assured it would not be too much to require every adult to take a medical examination and to institute compulsory sterilization for all individuals not meeting certain standards.

STUDENTS AND THE SHOW

IT IS significant to notice that practice for the Tech Show chorus has been going on for some time now and that work on the casting is beginning. Still the show is three months away. Why, then, all the hustle and fuss? Simply because it takes that much work to turn out such a large production successfully.

We expect that this year's show will be fully as good as last year's, if not better, because of the valuable experience gained in the resumption of the series. It must be pointed out that the success of the show depends entirely on student support, whether by participation or financial support. Therefore we urge that all those men who wish to join a real activity and have some fun report for work immediately. And to the rest who would rather sit and watch, remember to buy your tickets when the time comes and make the show a sell-out.

With the American College Editor

SYNCOPATED EDUCATION

SO HE went there. Verve and enthusiasm. You are through with high school, you are in college. Wake up, Pipes; little freshman caps; flag-rushes; greased poles; hazing pictures in the News; frat bids; get-together rallies; pep talks. Here are teachers, real men! We too are men. Assert ourselves, great freedom, individual development, culture. "The engineer must be at home in a dress suit as well as in a pair of overalls." New President is swell; slick talker; he knows his oats.

The gloomy dean. Got a Ph. D. way back in god knows when in Goettingen. Some floozy thesis; worked with Walther Nernst, by god; back in '93. Phi Psi, old guard scion. Practical man, knows his math. He's a good egg, he makes the guys write themes when they skip assemblies. But when he got one calling him, very politely, of course, very politely,—a sonofabee, he hikes right up to the Eng prof and finds out who wrote that theme. "at it all blew over. There were the regular elevatin' themes, they develop culture, they broaden the engineer, they give him that necessary polish. Essay on "Why I came to ——" Cook up something: "... lofty ideals; excellent technical background; individual contact with teachers; real mental training. Real college life, four years of pleasant work ahead. Engineers needed, good pay." Good pay! Well. Oh, those English classes! Cultural background for the engineer; Those old-school department heads. "But they can't kick 'em out, they've been here so long." Oh yes. And those sticks of profs. The old guard, swivel chairs, masonic pins, phi bete keys, hard collars: real professors. Yes, those English profs, they have their Ph.D's and the proper accent for cultural training. They see the dean now and then, go to a movie occasionally, and read Time every week.

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The Common Bond

"The true woman feels science hostile to the sense of shame;—she is always afraid that one will use it to peep under her skin, or, worse still,—under her dress and finery."

Nietzsche.

This marks the commencement of a new policy. All great editorialists must have a policy of some sort, and we are at last falling in line. This one we discovered via a Harvard student on the New York bus. It is, in short, the Common Bond. All human actions go, but to demonstrate the workings of this great Moral Principle we quote from the handiest authority whose remarks are, to say the least, quite Nietzsche.

Beans from the the Beanery

Biology is, in reality, one of the more leisurely and aesthetic of the sciences, that is, we understand, until one attains to the complex nastinesses of a course in biochemistry. However that may be, we sat right down the other day, in the midst of a fine frenzy of peering at botanical specimens, and dashed off some pretty poetic feelings about it all.

The Common Green Bean

I prate of the bean, the pure common green bean,
Whose life, I ween, is far from obscene,
Since it lives in a state, which hardly could sate
A connubial mate, and I surely would hate
To live a life so clean, so far from obscene

—As the poor lonely, pure common green bean.

Blankety-Blank Verse

Proving that Professor Müller is really the inspiration of more than a sense for the physical, we have the following outpouring from no less a one than Mr. Williams, who fairly bubbled over after an hour of wave equations and quantum particles, into blank verse.

Mary had a little lambda
Its value was n times n plus 1,
And everywhere that Mary went
She was in a quantum state.

All Washed Up

Lounger sub Two has had a lot of

FOR 8 YEARS

Tech Men Have Come to

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Opposite Aeronautical Laboratory

THE EDITORIAL SPECULUM

Why War?

Prevent war! Maintain peace! Don't let the nations of the earth engage themselves in a warfare which will net no one any good!

Such is the general cry today. Pacifist articles abound in the newspapers. Students all over the country are protesting against compulsory military science. But why? Can't they see what is coming? Can't they see that war is inevitable, because of the thousands of running-sores left open by the Versailles treaties? Can't they see that under the present order of things, nations are bound to fight one another to the finish? Can't they see that there will be a change only when the existing governments have so spent themselves in war that they are unable to fight any attempt toward providing for government for the general good? Can't they see that war is thus the salvation of humankind?

And still they cry "Peace!"
R. J. M.

things on the carpet, but we always feel for the public, in a manner of speaking, so we have waited all this time. However, encouragement is encouragement, and that means more stories, so this one is on us.

Our institution, dear reader, is being infected with a wave of Purity. The first indication of this was a student who came to class the other morning about fifteen minutes late.

The prof, being one of those severe gentlemen who have an eye for the clock, politely but pointedly inquired how come. Said the youth immediately, "I had to get up and wash this morning, sir. I had foundry last night and felt very dirty."

"And when," the austere professor asked, "did you get up to 'wash'?"

"About seven," replied the clean, if late comer, and then, perceiving the professor's raised eyebrows, "I was awful dirty."

As we have previously remarked, it just goes to show you.

The evolution of a college man is shown as follows:

Freshman: Embarrassed silence.
Sophomore: I don't know.
Junior: I'm not prepared.
Senior: I don't like to venture an opinion until I know more about the subject.—The Crimson and White.

READ & WHITE

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AT HOTEL STATLER

Boston, Mass.

TODAY and TOMORROW

HARRY SCHEIN, Rep.

READY: ADVANCE SHOWING, CLOTHING FOR SPRING AT REGULAR PRICES

HOOPMEN DOWNED BY LOWELL TECH IN 27-20 SCORE

Demo and Schneck Playing as Regulars in Season's Second Game

Coach McCarthy started his two new men, John Demo and Red Schneck, in the second basketball game of the new year with Lowell Textile Institute last Tuesday evening, but even so, the team was not up to the occasion, and although the Lowell team was playing without the services of its star forward, Louis Athanas, one of the best players in the East, they were able to win out by a score of 27-20.

Spirit Was Lacking

There was a noticeable lack of spirit throughout the whole game, and while the Engineers took plenty of shots, they couldn't seem to get the ball through the basket with any frequency, getting only five field goals and getting all the other points from fouls, of which there were many. Two men who were playing against Captain O'Brien of the Engineers were put out of the game, and others of the Lowell team had several personals called against them, but even in this department of the game the Engineers were not able to capitalize on their opportunities very well. Captain O'Brien had sixteen chances to score by this means but was able to do so only eight times. The rest of the team was the same on a smaller scale.

Lowell Shows Superiority

Lowell showed its superiority from the first of the game and was soon leading. Neither team did much scoring in the first half, but even so, Lowell was ahead 11-6 by the end. Starting the second half Thornton sank a long one to send the score up to 11-8, but Lowell kept on where it had started and was not offered much competition until it was leading 15-9. At that time O'Brien made his sole field goal of the evening and a little later four foul shots in succession to leave the Lowell team barely leading, 16-15. From then on the game began to liven up, and Red Schneck soon put the Engineers in the lead by one point with a beautiful long shot. For awhile the teams battled on even terms, but finally Lowell, leading at the time 20-19, put on a spurt and ran its total up to twenty-seven, while the best Technology could do was another foul shot.

Demo Twists Ankle

One of the unfortunate features of the game was that John Demo twisted his ankle and will be unable to play in the game at Tufts this coming Saturday night. This will be a blow to the Engineers, because they will have to be at their best to defeat Tufts, which has twice humbled Brown, the team which only a few days ago conquered Technology. The game will be one of the two this season with this team, the other occurring later in the Hangar Gym.

Wednesday evening the freshmen took a beating from the Harvard freshmen in a preliminary to the Harvard-Yale game. The Crimson showed plenty of promise in overwhelming the Engineer yearlings 50-11.

The summary of the varsity game

LOWELL TEXTILE			
	Gls.	fts.	pts.
Muller, r.f.	2	0	4
Diehl, r.f.	0	0	0
Basset, l.f.	3	0	6
Baronawski, l.f.	1	2	4
Georgacaulis, c.	2	3	7
Bukala, c.	0	0	0
Bogacz, r.g.	0	0	0
Jarek, l.g.	1	4	6
Totals	9	9	27
TECHNOLOGY			
	Gls.	fts.	pts.
O'Brien, r.f.	1	8	10
Thornton, l.f.	2	0	4
Garth, l.f.	0	0	0
Schneck, c.	2	0	4
Kennedy, r.g.	0	2	2
Demo, l.g.	0	0	0
Murphy, l.g.	0	0	0
Totals	5	10	20

AS WE SEE THE MOVIES

RKO KEITH'S

"Man's Castle"

Ideally happy is the ending of "Man's Castle," starting at Keith's

Swimmers Meet Williams Team

Natators to Attempt Comeback Tomorrow After Loss to Amherst

In an attempt to stage a comeback after its defeat by Amherst, the Technology swimming team will meet Williams College at the University Club pool tomorrow afternoon.

Captain Vaughan will compete in his specialties, the 220 and 440-yard events. Summers will be the Engineers' other entry in the shorter event, while Hamilton will swim the 440 with Vaughan. In the sprints Brown, DuRoss, Granberg, and Callan are Technology's entries. Hope and Edmonds will be entered in the 150-yard backstroke, and Muller and Vonnegut will represent the Engineers in the 200-yard breast-stroke.

The medley relay group will be composed of Edmonds, Muller, and Granberg. The latter will also be a member of the quartet participating in the 400-yard relay, with DuRoss, Summers, and Callan as the other three men. Wells and Paige will be Coach Untersee's entries in the diving.

Untersee's men have won one and lost one meet this season. They defeated Bowdoin in their opener in December, but Amherst was victorious in its recent dual meet with the Engineers.

Technology's natators will be strong in the 220 and 440-yard events, with Captain Vaughan expected to be the winner in both. The Williams swimmers are mostly unknown quantities, but Technology is expected to make a good showing.

INSTITUTE DOME MODELED AFTER ROMAN PANTHEON

Room of the Central Library Half Size of Ancient Structure

The general design of Technology's great dome, which houses the main library, was copied after the ancient Roman Pantheon, which is one of the few ancient buildings still standing in good condition today.

The Pantheon is a temple erected by Hadrian, 117-138 A.D., and dedicated by him to all the gods. For thirteen centuries it served as a Christian church and is now used as a burial place for famous Italians. The lower part of the dome is built up of steps of stone and the upper part is constructed like a truncated sphere. At the top is an open hole 141 feet above the floor of the auditorium, which is 142 feet in diameter.

Dome Is Half-size Copy

Builders of the dome at the Institute copied the general architecture of the Pantheon, but made it only half-size. On the inside the dome is supported by twelve Corinthian columns. In place of the opening in the Pantheon there is a skylight in the Technology dome, around the casing of which are arranged 32 electric lights of 500 watts each to illuminate the library reading-room below. From the center of the skylight hangs a pendulum on a wire string.

The origin of its architecture and the careful workmanship of its construction make the great dome of Building 10 a gem of architecture among the Institute buildings.

tomorrow, with Loretta Young as the happiness and Spencer Tracy as the man made happy. It is the story of a man who couldn't hear train whistles without wanting to hop a freight, and of a girl who knew how to bring him back.

Gone on one of his wanderings he meets ye beautiful show girl and Jezebel. Despite, he remembers the girl he's left and hearkens back to her. He begins to love her in his gruff way. Finally he is forced to commit robbery to get back to her. Miraculously that is cleaned up, and the two lovers are carried away to their Heaven—in a freight train.

The supporting cast includes Glenda Farrell, Marjorie Rambeau, Walter Connelly, and Dickie Moore. P. G. H.

SPORTS COMMENT

We would like to take this opportunity to congratulate the hockey team on its splendid work this season. To date its record is not very impressive, with two wins and five defeats to its credit. However, none of the teams played, and they consist of some of the best in the country, have showed a very definite superiority over the Engineers. Most of the losses have been due to weariness on the part of the overworked regulars and a lack of suitable replacements, and have been brought about by rival rallies in the last minutes of play. Two of the defeats were overtime games. We want to wish them luck in their game with Mass. State tonight at the Arena.

The other day, however, the Engineers showed a sudden reversal of form and a complete turning of tables. Last Saturday they traveled down to West Point to meet the strong Army team, expecting that they would be skated off their feet by the well-conditioned cadets. For a while such was the case and the third period found Army leading 3-0. Finally the Engineers put in a goal, but that didn't mean much, for another Army goal soon neutralized it. Then came the sudden and dramatic surprise! With only ten minutes to go the Engineers began one of those thrilling comebacks which make competitive sports so interesting to watch. The great Army team, which always was in such wonderful condition was swept off its feet; rush after rush was made at the Army goalie; the Army defense men, tired by their exertions, couldn't keep up with the flying Engineer forward line. The result was that the latter scored three more goals before the game ended, and in the overtime necessary because of the tie, they went on to score

three more and win, 7-4.

All of which reminds us of the game the soccer team played with these same West Pointers. It seems that when the first half of the game ended, Army was leading 1-0. Up to this point the Engineers had been playing safe conservative, defensive soccer. But one or two of the players mistook certain boisterousness on the part of the Army men as unnecessary roughness. The team decided to run the Army off the field, in short to give them as good as they themselves were giving. It wasn't a very wise decision, needless to say. In the last half the cadets, slightly angered at the way in which the Engineers took what they considered an everyday matter, proceeded to show the Engineers, now rapidly tiring, just how good they were. We forgot the final score, but perhaps it's all for the best as it turned out.

SYNCOATED EDUCATION

(Continued from Page 2)

Now there was Stoddard. But he was a bit left-guard. They had to drop him. Really,—the college is afraid of personalities. They gotta keep up the old guard decorum. Evolution and all that sort of stuff, you know. Yes, Well, left-guard Stoddard was ok, he read the *Nation* and he knew some psych even if he did read Schmalhausen. But he wouldn't stand for a review of JJ's *Ulysses* or much of D. H. L. Yes, he thumbed the *Little Review* with the rest of the muck-rakers. "Why are you reading *Lady Chatterly*?" "So,—you'd like it too?" No. So, turn the crank, write out the highly elevatin' dribble. William Lyon Phelps says . . . No wonder the little squirt of a debate teacher got sore at that article on birth-control: he was the last of fourteen. Three cheers for modern eugenics. Cabell was his speed, and the *Post* (see it every week—ads are interesting—reflect American progress) for a good story. Maybe not art, maybe not *literature*, but damned interesting.

Sophomore year, branching out. Now we have culture: a stimulat'g debate course. Give yourself exhibitionistic balance. And the pure and untainted science of higher mathematics. New personalities, men. The phys prof, he compiles handbooks. Damned good ones too. Head of phys department collect oboes and shows Einstein up. That little green hotdog stand on the campus with the etherdrift apparatus. By god, started with Michelson. Yes sree, outside activities make the man. Yes sir, lab book copying, exam cribbing, home-work copying: the scientific method. Yes yes. Engineers are being trained here, come to our mill: exhibit A.

Junior year, you start to specialize. And more and more culture, even the engineer has got to have it, oh yes. "To improve the cultural background, to broaden the engineer—, we have outlined a new series of college assemblies beginning with the Rev. Dilworth Bluffton, who will tell you his impressions of that interesting country, Soviet Russia." So Dilworth spills his cant. Goddam good copy, that. But Dilly knows his stuff, Prexy speechmaker said, and besides,

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Track Team Holds Trial Meet With Boston College

Captain Bell to Lead Varsity Against Chestnut Hill Men Tomorrow

YEARLINGS TO BE TESTED

Coach Oscar Hedlund's indoor track team will meet Boston College Saturday afternoon on Technology's board track. Points will not be figured, as the only meet is merely to serve as a preparation for the opening of the local indoor season on January 27, when both teams will compete at the Knights of Columbus Games at the Boston Garden.

In the sprints Saturday the Engineers will have Captain Dick Bell, Runkel, Svenson, Keefe, Beckman, and Brown, while Crosby and Johnson are to run the hurdles. Blair and Muther are entered in the 600-yard run, with Mann and Barrett in the 1,000. Jenkins and Talbert will run the mile, while Hedlund's relay men will be Schwarz, Wrigley, Sousa, Jarrell, Hill, Hitchcock, Hazen, and Greenlaw.

Technology will have a strong representation in the field events, with Donnan, Stark, Dixon, Ray, Clapp, Walker, Graham, Brown, Lovering, Wrigley, and Johnson among the entries. The latter two are expected to provide an interesting duel in the broad jump, with a strong possibility existing of their setting up a new indoor mark for the Institute in this event.

Freshmen Have First Trials

Coach Hedlund's freshman team will receive its first test when it meets the Eagle first-year men on the same afternoon. Lipnick, Houghton, Corea, and Sabi have been showing up well in practice in the sprints. Hedlund has entered Faatz in the hurdles; Robbins, Roberts, and Hunt in the 600-yard run, and Guerke and Moffatt, the cross-country stars, in the 1,000. For the relay race the yearlings will have Cooper, Wilkes, Haskel, Roberts, and Remalia.

Although the abilities of some of the freshman runners are known from their cross-country performances, the field entries are untested by competition.

doesn't he speak at all the women's yapfests? Sure. So Russia is a great experiment. "Engineers, a gurate experiment, a humanitarian proving-ground. And I want to leave just one thought with you young men, you future engineers, you men who guide man's destiny—"

A great capitalistic funk! Sean O'Casey says world in state of chaos. Competition higher than ever! A. S. M. E. president gives talk to prospective engineers. "The engineers who will make money are those who have an executive training." Who will make money. Money, that's all, money. Enough said. Graduate, get a job, money. Dollars. Learn your science for dollars. F=ma= money. Knowledge is power. Power is production. Production is money, success is money. C'mon, c'mon, let's go. —ALEXANDER BUCHMAN, in the *Student Review*.

AL STARITA PERFORMS FOR SENIOR FUNCTION

(Continued from Page 1)

The Institute Committee, of which 44 cents are set aside as class dues. One-half of the total amount thus obtained is spent for the senior dance, while the remaining sum is used to help defray the expenses of Senior Week.

Chaperones for the dance will include: Mrs. Karl T. Compton, Dr. and Mrs. Vannevar Bush, Bursar and Mrs. Horace S. Ford, Professor and Mrs. James R. Jack.

Be popular, become a good dancer. Uptown School of Modern Dancing Personal Direction Miss Shirley Hayes 330 Mass. Ave. Tel. Circle 3038 All Latest Steps, Fox Trot, Waltz, "400," etc. Beginners Guaranteed to Learn Here 15 Private Lessons \$5 Boston's Foremost School

CLUB 43

wishes to inform its members and guests, that starting Saturday, January 13, there will be no cover charge at any time. There will be a minimum charge of \$1.50 per person.

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Other values for men throughout the Store for Men and the Sporting Goods section.

CALENDAR

Friday, January 12
 12:00—N. E. Y. M. C. A. conference, North Hall, Walker.
 3:00—Placement Lecture, Room 5-330.
 3:00—Tech Matrons, Tea, West Lounge, Walker.
 5:00—Radio Society Meeting, Room 10-275.
 5:00—Debating Society, Open Forum, East Lounge.
 5:00—Hockey, Mass. State vs. Technology, Boston Arena.
 7:00—Freshman Wrestling, Browne and Nichols, Hangar Gym.
 8:00—Varsity Wrestling, Rochester vs. Technology, Hangar Gym.
 9:00—Senior Class Dance, Main Hall, Walker Memorial.

Saturday, January 13
 2:00—Track, B. U. Varsity vs. Sophomores, Tech Field.
 3:30—Swimming, Williams vs. Technology, University Club.
 3:30—Squash, Yale vs. Technology, at Yale.
 8:00—International Students' Club Dance, Walker Memorial.
 8:00—Basketball, Tufts vs. Varsity, at Tufts.
 8:00—Basketball, Tufts vs. freshmen, at Tufts.

Monday, January 15
 12:00—Faculty Club, Lunch, Grill, Walker.
 5:00—Dorm Dinner Club, Grill, Walker.

Discuss Subject of Wind Stress

Dr. J. B. Wilbur Offers Improved Formula at Meeting of Civil Engineers

A new method of analyzing the stress in building frames due to wind forces was discussed by Dr. John B. Wilbur of the Civil Engineering Department in an address before the Designers' Section of the Boston Society of Civil Engineers in Tremont Temple on Wednesday.

Because tall buildings must be designed to resist great wind forces, the problem of providing safety and freedom from sway in these structures is one of great importance to engineers.

In the modern skeleton frame type of construction, wind loads are carried by the framework of a building, which consists of the columns and floor girders. The analysis of the resulting stresses is complicated because the stress due to wind in each member of the framework depends upon the makeup of every column and girder in the entire framework.

Because of this condition, an exact analytical solution would involve the solution of an extremely large number of simultaneous equations. To avoid this, engineers usually resort to approximate methods which neglect the effect of the makeups of the columns and girders upon the resulting stresses.

The method developed by Dr. Wilbur takes into consideration the makeup of the members of a building frame in such a way as to avoid the use of simultaneous equations, and gives results which are more accurate than those of the methods in general use. While based upon the involved principles of the method of slope deflection, it is simplified by providing a definite working formula to be used in routine computations.

FORMAL DINNER DANCE GIVEN BY DORMITORIES

(Continued from Page 1)

tables for parties of eight or ten. The affair is exclusively for dormitory men and outsiders will be able to secure reservations at \$5 after the midyear vacation when the dormitory men have had their choice. Redemptions for the sign-ups will be held in the Dormitory Committee Room after vacation on February 5, 6, and 7 after eight o'clock.

The committee in charge of the dance consists of G. Kingman Crosby, chairman; Glenn Woodbury, in charge of the orchestra; Frederick Vaughan, in charge of publicity; Charles Lucke, in charge of the menu; Maynard Sayles, in charge of decorations; Edgar Chiswell, in charge of ushers; Philip Walker, in charge of tickets; and Herbert Plass, in charge of chaperones and guests.

TECHNOLOGY AIDS ACCIDENT SURVEY

(Continued from Page 1)

Massachusetts Institute of Technology, in conjunction with the state departments of public safety and public works, the Governor's council on street and highway safety, and the office of the registrar of motor vehicles. The project was authorized by Joseph W. Bartlett, chairman of the State Civil Works Administration,

Youngest Freshmen Encountered in Hall

Younger and younger they grow. The other day a member of THE TECH staff was walking down the corridor when he saw two youngsters of approximately six years standing perplexed as to the direction they desired to go.

"Are you going to school here?" he asked generally of the urchins. The older of the two looked up uncertainly and then broke into a grin.

"Sure!" he responded. We knew that there were child geniuses who graduated from some of our universities at an early age, but this encounter takes the cake. Oh, for bigger and better men!

INSTITUTE PUTS OIL BURNERS IN HEATING PLANT

Three of the Four Boilers Are Converted to Use Fuel Oil; Fourth Burns Coal

A project which will prove of great benefit to the Institute, because of the financial saving involved, is the recent installation of oil burners in the boilers of the central heating plant. Two of the 520 rated horse power boilers have already been converted, and the work of installing an oil burner in the third has begun. The fourth boiler, of 278 horse power rating, is reserved for emergencies, and will be operated by coal, if the necessity should arise.

Work on the project was begun at the instigation of Dr. Bush, vice-president of M. I. T., who appointed the late Professor Miller, Superintendent Smith, and Mr. Bryan of the Charles T. Main Co. as a committee to make a preliminary survey of the situation and determine whether or not the use of oil in the heating plant would be more economical than coal.

Cost of Installation About \$40,000

One of the most remarkable features of the project is that the initial cost will be only about \$40,000, which means that it will pay for itself in less than three and one-half years at the very outside. The expected saving includes all factors, such as cost of fuel and cost of all labor needed to operate the plant.

The nut and slack coal previously burned was handled by single retort underfed Riley stokers. These have been removed, and all the coal handling machinery has been superseded by an extensive fuel oil supply system.

The system comprises two 30,000 gallon storage tanks, which receive the oil from the tank cars of trucks. The oil is pumped from the latter by means of two Schutte-Koerting transfer pumps, which are of the gear type. Then, by the operation of suitable valves, the oil is directed to and pumped into the 10,000 gallon service tank, which is located just outside the heating plant proper. An overhead pipe line connects the storage tanks to the service tanks.

and already more than 900 workers, many of them engineers who have been unemployed for some time, are participating in the survey.

The survey is to include a study of law observance, an aspect of highway regulation on which little accurate data is now available. Preliminary studies already point to the chronic violator of traffic regulations as the cause of the most serious accidents.

ALPHA CHI SIGMA ELECTS OFFICERS

Alpha Chi Sigma, honorary chemical society, elected its officers for the spring semester yesterday. The new officers who will be installed next Wednesday at a supper meeting of the society in the Faculty Dining Room at 6:30 are: Walter F. Read, '34, president; Thonet C. Dauphine, '35, vice-president; Walton H. Marshall, Jr., '35, treasurer; Philip F. Kurz, '35, reporter; Reid Ewing, '35, recorder; and Almon S. Parker, '33, master of ceremonies.

ABBOT AND COMPTON SPEAKERS AT BANQUET

(Continued from Page 1)

Frederick G. Fasset, Jr.; A. W. K. Billings; Dean Harold E. Lobdell; James R. Killian, Jr., editor of the Technology Review; John J. Rowlands, Director of the Technology News Service; and Track Coach Oscar F. Hedlund are expected to be present. The general managers of the other three Technology undergraduate publications will also attend.

The guests who are not scheduled to speak will be introduced to those present.

To Announce Managing Board

The new Managing Board of THE TECH will be announced at the banquet. This board will be in charge of Volume LIV of THE TECH. The new volume will start with the first issue next term.

The new Associate Board for the next volume will also be announced, as well as other elections and promotions to fill the places of those moved up.

Bunker "C" Oil Being Used

The Bunker "C" oil which is used in the burners is of very high viscosity, and for this reason must be preheated at every stage during its transfer to the boilers. To begin with, the tank cars contain steam coils which are coupled directly to the heating plant boilers while the oil is being unloaded. The storage and service tanks both contain coils which are activated in a like manner. When the oil is thus warmed, it passes through the transfer pumps at the rate of 100 gallons per minute. The service tank is maintained at 100-120° F. When full, the tanks contain enough oil to keep the plant supplied for five or six days when operating at full capacity.

Warm Oil Fed to Burners Under Pressure

The oil is not suitable for use in the burners until it has been strained and heated, and then fed to the boilers under pressure. For this reason, the oil from the service tank is passed through a Warren Duplex pump, is strained, passes through a Griscom-Russell straight tube heater at from 200 to 220° F., is strained again, and passes through an oil meter to the burners.

The burners were built by the Woolley Company, of Providence, R. I. The furnace walls and settings were rebuilt, using Babcock and Wilcox No. 80 Junior bricks. Fans located in the basement force the air through the hollow tile floor to the furnace, thus preheating it; or the natural draft may be used.

Boilers Generate Large Amount of Electricity

Two of the 520 rated horse power Babcock and Wilcox water tube boilers are normally used to supply the needs of the Institute. Ordinarily, they deliver from 125 to 175% of the rated boiler horse power, a large percentage of which is used to drive the Institute's generators, which comprise a total capacity of 3100 K.W.

The First Church of Christ, Scientist

Sunday Services 10.45 a.m. and 7.30 p.m.
 Sunday school, 10.45 a.m.; Wednesday evening meeting, 7.30 p.m.; in the church edifice, Norway, Falmonth and St. Paul Streets. The church is open to visitors Wednesday and Friday from 10 a.m. until 5 p.m.
 Reading Rooms—Free to the Public, 209 WASHINGTON ST., opp. State St., STATLER OFFICE BLDG., PARK SQ., 60 NORWAY ST., cor. Mass. Ave.
 Authorized and approved literature on Christian Science may be read, borrowed or purchased.

Break 16 Sq. In. of Property Per Hour

Two boys scuffling riotously in the corridor while waiting for the class to begin; a stronger push; a arm outflung to preserve balance, or an elbow or shoulder colliding with the door pane; a crash; an empty corridor.

This is the average story of the glass door panels of which 30 have been broken since the opening of the term. In Building 2 alone, six have crashed in the past six weeks. Occasionally, but very seldom, a door check gets out of order and the panel is broken as a result.

One pane broken every week is about the average breakage for these 32 x 42 panels of glass which look so substantial, and are not.

The largest single cell is an ostrich egg, because an egg is a single cell in the true sense of the word.

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TEA GIVEN WOMEN STUDENTS TODAY

A tea in honor of the women students will be given by the Technology Matrons today in North Hall from 3:30 to 5:30. Mrs. H. C. Hotel, in charge of the tea, will serve

Ladies of the departments of Architecture, Biology and Public Health, Chemical Engineering, and English and History will be in the receiving line. Also present in the receiving line will be Miss Deborah Rubenstein, president of Cleofan.

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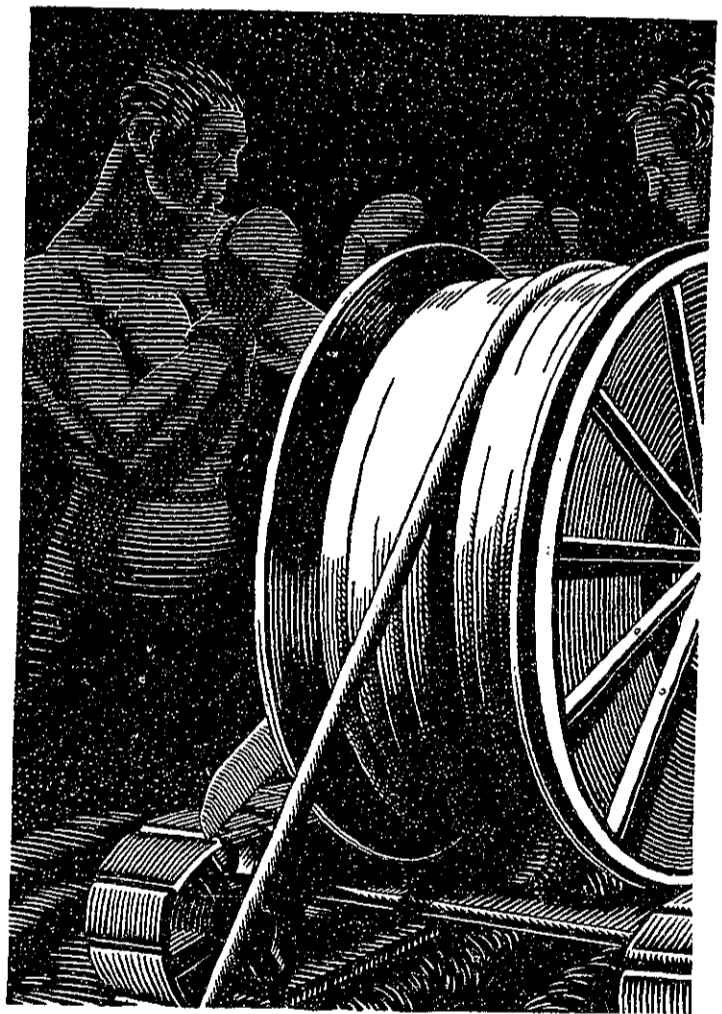
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