

PROFESSORS WEINER AND STRUIK EXPLAIN THEORY SET FORTH BY EINSTEIN

RELATION BETWEEN GRAVITATION AND RELATIVITY SHOWN

Work Of Scientists In Regard To New Theory Explained For The Layman

NEW GEOMETRY NECESSARY

Since the publication of the latest theory of Albert Einstein a few weeks ago considerable interest has been aroused as to just what it is all about. Professors Norbert Wiener and Dirk J. Struik of the Institute have written the following article in an effort to show the students of Technology what this amazing paper means. The writers were of course limited in their explanation as they endeavored to use only the simplest language that the students might more easily understand the complex problems involved. "In 1916, when Einstein published his theory of gravitation (the so called general theory of relativity) he succeeded in assigning to the mysterious force of gravitation a well defined place in natural science. Gravitation, according to him, is nothing more than an apparent force, just as centrifugal force and the force of Coriolis in the old mechanics, so that it depended only on the system of reference. Everyone who has ever solved a problem in mechanics knows what this means. If, for instance, a heavy mass moves in a tube rotating around an axis, the problem can be solved either by introducing a fixed axis and considering gravitation as the only working force, or by introducing a moving axis and also additional so called apparent forces, namely centrifugal force and force of Coriolis. Einstein's idea was to extend this notion of gravitation itself and he succeeded in 1916.

New Geometry Introduced

"For this purpose Einstein introduced a special type of geometry departing from Euclid and inseparable from gravitation. He thus succeeded in unifying two parts of science that were previously separated, geometry and mechanics. Two great subdivisions of natural science were unaccounted for, electro-dynamics and quantum theory. He was, however, able to show, in the same paper, that it was possible to have electro-dynamics in his world. The connection between gravitation and electro-dynamics was still very loose. Electrical forces remained real forces and quantum phenomena were entirely out of the reach of his theory.

"In 1916 a new series of speculations was started by Herman Weyl, the famous Zurich mathematician who now is a guest of Princeton. Weyl succeeded in setting up a theory which brought geometry, gravitation, and electro-dynamics under one unifying principle. Now, also electrical and mechanical forces became apparent forces. He did this by a slight modification of the geometry underlying Einstein's original theory. In fact, once you drop the geometry of Euclid, you may assume whatever type of geometry you please if the results really yield Newton's laws and

SENIORS

Representatives of the company by whom the senior rings will be made will be in the Main Lobby on February 12 and 13 to exhibit and take orders for the rings for the class of 1929. There are several types and a selection is to be made by each senior individually. The total cost of the ring will be between \$10 and \$11 depending upon the type chosen. An initial payment of \$5 is required when the ring is ordered and the balance is to be paid when the rings are finished. It is expected that ordered rings will be delivered by the end of March.

English Honors Option Restored

Prof. Seaver and Prof. Roberts to Tutor Two Groups of Ten Men Each

In addition to the regular English course and the literary option, an "Honors Option" in Sophomore English has been inaugurated this term. This option was started last year but was suspended the first term of this year in order to insure a more careful choice of the option groups.

This year the option consists of two groups of ten men each, chosen from those who would like to work under the tutorial system. In addition to having good grades in freshman English, the men must be interested in making an intensive study in some cultural field. The subject chosen however must be outside of the field covered by other departments at the Institute, and may include literature, history, music, philosophy, and the fine arts.

Men in the option are expected to select some specific topic for study, involving both a large amount of reading for background and some specialization to be carried out under an instructor who will act as a tutor at weekly conferences. Exemption from regular class work is one of the features of the course.

Professor Henry L. Seaver and Professor Penfield Roberts are in charge of the option groups this year. Those who have been admitted into the two groups are Herbert W. Chandler, Jeremiah F. Cook, Harold J. Davis, James R. Day, Harold A. Freeman, Oscar G. Goodhand, John N. Higgins, Frederic W. Nordsiek, John A. Shute, Alfred Ziegler, Roy W. Chamberlain, Emilio G. Collado, Hymen R. Davis, Jacob Bordon, Harold D. Gurney, Helge Holst, Charles G. Martin, Jr., Eugene Roger, William B. Schneider, Jr., Stuart C. Westerfeld. All these men are class of '31.

AERO EXPERT SPEAKS ON AVIATION LIMITS

Faculty Club Hears Talk by Mr. Bruce G. Leighton

"The Present Limits of Aviation" was the subject of a lecture given by Mr. Bruce G. Leighton before a luncheon meeting of the Faculty Club in the Faculty Dining Room, last Wednesday noon.

Mr. Leighton was formerly a Lieutenant Commander in the United States Navy Bureau of Aeronautics, where he had charge of the division of aviation engines. He contributed toward the development of the modern aircooled engine used in naval aircraft, and did much to bring the naval aviation service to the high standard of efficiency which it has attained. He is now employed with the Wright Aeronautical Corporation.

Mr. Leighton believes that the greatest obstacle to the development of the airplane is the inability to carry great weights. He states that up to the present time the greatest loads which airplanes have been able to carry is somewhat less than 25 pounds per unit of horsepower. He believes that if planes can be made practically which will carry greater loads, they will be very extensively used as vehicles of transportation.

Mr. Leighton also spoke of the phenomenal rise of aviation during recent years. He recalled that in 1903 it was almost impossible to procure an engine light enough for airplane use. Most of the development of planes has come since that time, the greater part during the last fifteen years.

In discussing the safety of air travel, Mr. Leighton quoted figures to show that the passenger per mile fatality rate over the well-managed transport routes compares very favorably with that of other means of transportation. The chief value of aviation is the fact that it is a time saver.

Club-Wielding Soph Corners Peeping Tom

Armed with a club and backed by another person with a hammer, Stanley J. Szymczyk '31, played the leading role in capturing a Cambridge "Peeping Tom" last Wednesday night at his boarding house on Magazine Street. For several nights the residents in the neighborhood had been annoyed by the actions of the interloper and now that he has been lodged behind prison bars the weaker sex can breathe more freely again.

When the police answered the hasty summons and arrived at the scene of action they found Szymczyk and another occupant of the house holding the intruder at bay in a corner and daring him to try to get away. After the "Peeping Tom" had been taken away in the paddy-wagon the two captors told the police that their suspicions had been aroused several nights before by the queer actions of a man who was prowling around the neighborhood. They determined to "lay for" the man an accordingly they hid behind some bushes on Wednesday night and caught the household menace in the act of peeping through a window.

Clubs Entertain Girls at Salem Normal Tonight

Program to Follow Dinner Given by Students—Dancing After Concert

Girl students of the Salem Normal School will give a joint program of music and entertainment with the Glee Club, the Instrumental Club, and the Tectonians tonight. The concert will follow a dinner given by the girls, each Club member who attends being assigned a partner in advance. For this reason it is important that the Clubs management know in advance how many men are to attend.

A xylophone solo by Gardner Harvey '32, accompanied by Thomas DeMarco '30, is to be the feature act of the evening. Several selections will be rendered by each of the Clubs, and the Tectonians will furnish music for the dancing which is to follow the concert.

Transportation will be furnished by busses, which will be ready in front of Walker Memorial at 4.45 o'clock and will leave promptly at 5. Club members are urged to arrive on time, and are reminded that it is essential that all members wear their Club ribbons to this affair.

TOTAL PAYMENT FOR PROM DUE IN 11 DAYS

Juniors to Get First Choice in Table Reservations

Redemption of signups for the Junior Prom will be held on Thursday and Friday of next week, February 14 and 15, and Monday and Tuesday of the week following, February 18 and 19. At this time those who signified their intention of going to the Prom must pay the remainder of the total cost of \$15.

Thursday, February 14, will be reserved exclusively for Juniors thus giving them the preference in the table reservations which will be assigned at redemption. This is the only part of the Prom in which Juniors are given any preference over the other classes.

Over 150 signups were received in the three days campaign that closed on Wednesday. This should not be taken as an indication of the number that will attend the Prom however as 275 were present at the Prom last year in comparison to the 125 signups. The attendance at the ball is usually more than double the number of those that signified their intention of coming during the signups. Those who did not purchase tickets during the campaign just closed may attend the Prom by paying the full cost of \$15 at redemption.

PROF. CHATFIELD TELLS WHY AIRPLANES FLY IN POPULAR SCIENCE TALK

German Scientist To Give Lectures

Professor Rudenberg, Guest of Institute, Will Discuss Earth Currents

Professor Reinhold Rudenberg, Chief Electrical Engineer of the Siemens-Schukert Works in Berlin, and Honorary Professor of Electrical Engineering at the Technische Hochschule in Charlottenburg, is now a guest of the Institute. During his stay here he is giving a series of lectures which began on February 4 and will continue till February 26.

Among the subjects Professor Rudenberg is discussing are problems of earth-currents and interference, traveling waves on transmission lines, and transmission of power over great distances. Each lecture of the series will be given in Room 10-275 at three o'clock. Because of the lecturer's prominence the addresses will be open to practicing engineers who may wish to attend.

So that his stay at the Institute may be more pleasant and in order that Professor Rudenberg may be more easily reached by men wishing to discuss problems with him Room 4-210 has been assigned to him. Beside gaining stimulus from these lectures, the professors are also availing themselves of this opportunity to have informal conferences and chats with Professor Rudenberg upon subjects of their own particular interest such as research problems and the like with which work is being done at the time of his residence here, and in which mutual interchange of ideas may prove of considerable benefit to us as well as interest to him.

These lectures are being given on Tuesday, Wednesday, and Friday afternoons and the subjects of the individual lectures will be posted on the bulletin boards about the Institute.

SERIES OF LECTURES SPONSORED BY T.C.A.

International Institute to be Held Here this Month

As the result of negotiations made by the T. C. A., an International Institute will be held at Technology on February 25, 26, and 27. The purpose of these gatherings, which have already been held by several New England colleges, is to inform the students regarding important international questions, by means of lectures and discussion groups.

Lectures will be held on each of the three days in Room 10-250 during the day, in the dormitories and some of the fraternities at night, and in several of the regular classes. The names of the lecturers have not yet been made public, but will be announced in a future issue of THE TECH.

The general committee in charge of this event at Technology is headed by William J. Harris '29, Manager of the Meetings Department of the T. C. A. The Liberal Club and the various foreign clubs have assisted in the work.

SEVEN HUNDRED SIGN UP FOR "TECHNIQUE"

Today and tomorrow are the last two days of the signup campaign for the 1929 Technique at the reduced rate of one dollar. Under no conditions will the campaign be continued after Saturday, February 9. This year there are an unusually large number of students waiting till the last minute and they are warned that the cost of a signup will be two dollars after Saturday.

The signups for the 1929 copy of Technique sold to date amount to 700. This number is below last year's sales for the same period. This year's Technique will contain among its new features pictures of the entire instructing staff. As usual it will have pages devoted to every phase of undergraduate activity, including the Junior Prom, Field Day, athletic contests, and fraternity and dormitory life.

THIRD ADDRESS OF SERIES FEATURED BY EXPERIMENTS

Capacity Attendance Expected At Lectures Today, Saturday and Sunday

ALL SEATS TAKEN SUNDAY

Professor Charles H. Chatfield of the department of Aeronautical Engineering will be the speaker at the third Society of Arts Popular Science Lecture to be given this year. He will speak on "Why an Airplane Flies" in Room 10-250, today and Sunday at 2:30 o'clock and on Saturday at 4 o'clock. High school students are invited to the lectures today and Saturday and the general public on Sunday.

First Professor Chatfield will show the principal parts of the airplane with slides. Newton's Law of Motion as applied to a solid body, a stream of solid bodies, a liquid, and a gas will be demonstrated by experiments. By means of a ball held above a long glass tube by a stream of air Professor Chatfield will try to give the audience an idea of relativity. The nature of the airflow around a body will be shown on the wall reflected from a glass walled container with colored water flowing around a solid.

Professor Chatfield will demonstrate the air forces on an airfoil by means of an open wind-tunnel. A wing section will be held in the air stream from a fan and the lift and drag on the airfoil will be shown on scales. The effect of a flap on the wing will also be shown in this experiment.

The resemblance of a propeller to a simple airfoil will be made clear to the audience by means of an apparatus consisting of a propeller mounted on a car running on a track. The thrust of the propeller pulls the car to the limit of a spring and when a stream of air is blown on the propeller the car moves back until equilibrium is again established.

Professor Chatfield will then put an airfoil without control surfaces in the wind stream from the fan and show that it is unstable. The effect of adding control surfaces will be shown. Finally an airplane model will be put in the open wind tunnel and the controls will be moved to show how the plane responds to the changes.

After the lectures anyone interested will be shown through the Daniel Guggenheim Aeronautical Laboratory. The large wind tunnel will be in operation and airplanes in the museum may be examined.

Candidates Wanted for Positions on THE TECH

Several men have already entered into the competition now being conducted by THE TECH for staff positions in the various departments of the paper. However, more candidates are needed and those who come out have their choice of working in the news, features, sports and business departments.

At the same time a competition, open to sophomores, is being held for the office of Features Editor. Any sophomore, whether he has had previous newspaper experience or not is eligible to enter this competition. In addition those students interested in photography are urged to come out as staff photographer candidates. The drive for new men will end on Wednesday, February 13, at which time a smoker will be held in Walker Memorial for all candidates and staff members.

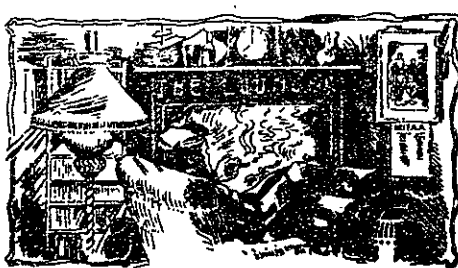
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Official News Organ of the Undergraduates of M. I. T.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Table with columns: MANAGING BOARD, ASSOCIATE BOARD, EDITORIAL DEPARTMENT, BUSINESS DEPARTMENT, OFFICES OF THE TECH, and SUBSCRIPTION PRICE.



There is some strange, sneakily suspicious, pernicious doctrine being spread wholesale around this Institution which the Lounger detests, and would expurgate.

—And another thing—Technology students are supposed to be men, but as the Lounger was walking down the corridor of Building 3 the other day, he smelled a peculiar odor that was far from masculine.

Who has seen anything of Tillie the Co-ed? Perhaps her apartment on Newbury Street was to popular for her well-being.

There have been several freshmen around this Institute in the last few days that have exhibited such worried looks that the Lounger took the trouble to find the cause.

NO SMOKING BY UTAH CO-EDS, QUERY SHOWS

According to a recent article in the Utah Chronicle the co-eds of the University of Utah are either way ahead or way behind the co-eds of other educational institutions throughout the country, depending on one's point of view.

OBSESITY OF FINALS

SOME two weeks have passed since the last final examination, and even in minds as mature as are those of the undergraduates two weeks is long enough to obliterate the sting of almost anything—from love to a FF.

Almost forgotten—but why should there have been such a series of surprises? It happens every time the finals roll around.

Many a time have we boasted to the outer world that "Sure, our finals count as much if not more than the entire work of the course—and try and pass them!"

Far from being perfect tests of one's comprehension and normal ability, the finals have become rather an emotional climax upon which one's fate depends—a boon to the born gamblers, and a curse to the rest.

Prominent among the discussions and recommendations of the Curriculum Committee is this topic of the importance of final marks. The Committee advises strongly that the term examinations count no more than a third in the final reckoning—often less.

SCIENTIFIC MORALITY

MAN'S supreme goal is happiness. To that end there has been built up a system of morals which has not functioned adequately. Some of the advanced thinkers believe that there is a scientific basis for personal and social conduct, in antithesis to a code of morals based on supernatural authority, or puritanism, convention, or mere duty.

Such thought procedure appeals to the thinking "younger generation" (their number is legion) as being both scientific and human. Comprehensive, realistic ideas are always sure of a grateful audience.

Mankind is no longer satisfied to do right simply because it is told to do right. We must have proof of good results. Why not have a compilation of actual data of the effects of alcohol on the individual and the group by a committee of scientists and that presented to the nation in a widespread and effective manner?

Embryo Scientists Again to Receive Scholarship for Tuition at M.I.T.

Students Submitting Technical Project of Unusual Worth Are Given Award

Distinguished engineers and scientists, encouraged by the success of previous efforts, will again aid in the search for the "best discoverable boy" of 1929, to study at the Massachusetts Institute of Technology beginning next fall, it was announced today.

Among the committee which will seek to determine the most likely candidate for technical study in any of the Institute's Departments are Dr. Samuel Wesley Stratton, President of the Institute; Edward P. Warner, Assistant Secretary of the Navy for Aeronautics; Gerard Swope, President of the Pennsylvania Railroad; Frank W. Lovejoy, General Manager of the Eastman Kodak Company; Frank E. Jewett, Vice-President of the American Telephone and Telegraph Company; James P. Munroe, President of the Munroe Felt and Paper Company; Arthur D. Little, President of Arthur D. Little, Inc.; William E. Nickerson, Vice-President of the Gillette Safety Razor Company and Ellery Sedgwick, Editor of The Atlantic Monthly.

This committee, assembled by The Youth's Companion, which offers the scholarship, will give final consideration to the qualification of young men between the ages of 17 and 22, who have shown outstanding ability, and will award a four-year scholarship to at least one of them.

A similar search last year resulted

in the choice of two boys for the honor.—Elwood W. Schafer of Cleveland, Ohio and Rodney D. Chipp, Jr. of New York City. Both submitted original technical projects showing unusual scientific ability. They are now students at Massachusetts Institute of Technology. The success of the plan went far toward convincing authorities that this nationwide search for students of unusual ability opened a new field in educational research.

Mass. Airways To Give Extra Prize

\$300 Flying Course Augments the Alexander Eaglerock Co. Aviation Award

An opportunity to win a free flying course is offered students of the Massachusetts Institute of Technology by the Massachusetts Airways, operators of a large flying school at Springfield, Mass.

The Massachusetts Airways a distributor of Eaglerock airplanes in the New England states, has announced it would award a free 10-hour flying course, worth approximately \$300, to the college student in its territory who makes the best showing in the aeronautical scholarship contest which the Alexander Aircraft Company of Colorado Springs is holding this spring to arouse more collegiate interest in aviation.

The Alexander company will award a completely equipped Eaglerock, or, if preferred, a four year university scholarship in aeronautics on June 1 to the undergraduate who submits the best four short articles on aviation before May 1. The contest is open until that date. Both men and women are eligible.

If Al Smith lived in Czechoslovakia his name would be Al Novak. So would it be with several hundred thousand other Smiths, for in this country the name Novak is as common if not more so than the name Smith in America.

It is estimated that there was 80,000 persons by that name in the infirmary, and already 11,630 of them have joined a recently organized Novak society. The president of the new organization is Professor Care Novak, of the Czech Technical University. The present Czechoslovak Consul General in New York is Dr. J. Novak, and the Minister of Commerce also bears the name. The famous Prague composer, Novak, is noted in musical circles throughout the world.

The Novak society is planning to publish a journal, and also will seek to aid its members in a social and cultural way.

Salesmen Wanted!

Lively men wanted to sell THE TECH. Men having free hours on Monday, Wednesday or Friday report to 302 Walker Memorial for particulars.

J. K. MINAMI
Circulation Manager

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THE TECH BOOK LIST

- New Books Added to Walker Library: Burgess—"The Sanctity of the Law." Clifton—"Islands of Queen Wilhelmina." Bagger—"Francis Joseph." Nelson—"Fremont" (Two Volumes). Golder—"Documents of Russian History." Home—"Medieval History." Johnson—"Pafari." Locke—"Plays of Negro Life." By His Son—"Viscount Leverhume." Lasswell—"Propaganda Technique in World War." Powy—"Henry Hudson." McCormack—"Pleasant Days in Spain." Oswald—"History of Printing." Penouvin—"The Immediate Origin of the War." Robertson—"The Changing South." Stoddard—"As I knew Them." Russel—"The American Orchestra." Lynde—"Boss Tweed." Wilson—"More Aristocrats of the Garden." Van Loon—"America." Books of Fiction Calthorp—"Hyacinth." Delafield—"The Way Things Are." Fletcher—"Cobweb Castle." Gale—"Fellow Gentians and Blue." Goding—"The Miracle Boy." Kaye-Smith—"Iron and Smoke." McGrath—"The Changing Road." Philpotts—"The Jury." Pirandello—"The Old and The Young." Wodehouse—"Carry on Gieves." Belasco Ibanez—"Reeds and Mud."

TODAY—Young Men's Winter Overcoats

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WRESTLING TEAM MEETS HARVARD

Varsity Speed Men Leave For New York

MATMEN WILL HAVE HARD MATCH WITH STRONG OPPONENTS

DerMarderosian and Cooper Have Good Chance of Winning for Engineers

FRESHMEN MEET ANDOVER

Final practice has been held, and the Cardinal and Gray matmen stand prepared to meet the strong Crimson team in the Hangar Gym on Saturday night at 8 o'clock. The Harvard team is undoubtedly the strongest that the Engineer wrestlers will meet, but the Varsity hopes for a victory. The meet will be refereed by George Myerson, under the New Intercollegiate wrestling rules.

Chibas will be the first man to face the Crimson team, and although he has not had the experience of some of the other men on the team, he is expected to make a fine showing.

Perkins and Cooper Will Wrestle In the 125-pound class, Perkins will enter for Technology, and it is hoped that he will be able to score a victory. At Yale he was able to get a decision over his opponent, and he should be able to duplicate his feat tomorrow night in the Hangar.

Losing by only a decision to the Eastern Intercollegiate champion at Yale, Cooper 135 pounds, will step on the mat determined to win, and judging from his past record he should be victorious.

Captain DerMarderosian gained a decision over a Yale man who has never been defeated in collegiate wrestling, in the last meet at Yale, and should easily win his match tomorrow night against Harvard. He has done wonderful work all season, and should go the year undefeated.

Pittbladdo Hopes to Win Pittbladdo will be entered in the 155-pound class, and although he has lost all his meets this year, he hopes

to win his first victory against the Crimson matmen.

Stone, in the 165-pound class, has done very good work all season, and also expects a victory. He wrestled in the 175-pound class at Yale, and was able to get a decision over his Eli opponent, and is in fine shape for the coming meet.

Easily and Gordon in the 175 and unlimited have had little experience in collegiate wrestling, but have shown much improvement since the last meet, and will give their opponents a real fight.

Freshmen Will Meet Andover

On Saturday afternoon the freshmen will meet Andover at Andover, and expect an easy victory over the Blues. Axford, Ward, and Vassolotti, who are the stars of the freshman team are still undefeated, and should have an easy time winning their matches. Captain Vassolotti has been doing wrestling of Varsity calibre, and is one of the best freshmen wrestlers ever to go on the mat for Technology. Knoepple has shown much improvement and is expected to win tomorrow afternoon at Andover. Negus who has also done fine work, having been defeated only once, also expects to pin his opponent. The yearling team is the best freshman team in years, and will undoubtedly win many meets before the season is over.

TECHNOLOGY HOCKEY TEAM DEFEATS ARMY

Skating a hard and fast game, Technology's Hockey Team once again upheld the Cardinal and Gray when they handed Army a 5 to 2 defeat last Saturday. The game was played at West Point on the Cadets' own rink, and came as the climax of a carnival of ice events. The ice was fast, and the game was exciting throughout.

Strong in Second Period

The first period of the game ended with the score tied, each team having made one goal. In the second period, however, the Engineer icemen smothered the Cadets under a whirlwind attack which put the game safely away for M.I.T. Crosby, Cullinan, Ford, and Lucey each added goals to the first one made by White, and the period ended with the Institute far in the lead of Army. There was no scoring in the third period, each team playing an equally good game of hockey.

The line-up was as follows:

- | | |
|---------------------------------------|--|
| M.I.T. | ARMY |
| White (Hall), l. w. | r. w. Rothschild (Chaffee) |
| r. d. Schorr (Pink, Waters) | Crosby (Ford), c. c. Linquist (Toppin) |
| Lucey, r. d. | Cullinan (Mead) r. w. |
| Riley, g. | l. w. Sweeney (Colter) |
| Score—M.I.T. 5, Army 2. Goals— | Hazeltine (Donahue), l. d. |
| White, Crosby, Cullinan, Ford, Lucey, | r. d. Schorr (Pink, Waters) |
| Toppin. | Lucey, g. |
| Charles Mitchell. Time—Three 20m. | Score—M.I.T. 5, Army 2. Goals— |
| periods. | White, Crosby, Cullinan, Ford, Lucey, |
| | Toppin. |
| | Charles Mitchell. Time—Three 20m. |
| | periods. |

Basketeers Play Next With Yale

Practice Starts for Second Half of Schedule—Allen Hopes to be in Action

Now that exams are over Technology's undefeated basketball team has resumed practice and is preparing for the last half of the season's schedule. Due to their several week's vacation, the team is a little stiff and it will be several days before they will be in form again.

Although Brig Allen injured his finger during exam period, it is expected that he will be back into the line-up before the Yale game. The vacation has done his hand a lot of good and he hopes to get back into scrimmage before many days.

Engineers Go To New Haven

Yale is the next team on the Engineer's schedule and the Cardinal and Gray hopes to come out of this scrap with their seventh straight victory. Both teams appear to be evenly matched with the Bull Dogs having the advantage of playing on their own floor. This will be the second game that the Engineers have played away from home and it will be a real test of the strength of the team on a strange floor.

As the game is next Tuesday the team will have to put in a lot of hard work during the next few days

RELAY TEAM WILL RUN AT MILLROSE GAMES TOMORROW

Engineers Will Meet Colgate and N. Y. U. in Triangular Race at Garden

BENJAMIN WILL COMPETE

This afternoon Coach Hedlund of the track team and his relay outfit headed by Captain Jack Hallahan will leave for New York, where they will compete in the third big meet of the indoor season. Their objective will be the annual Millrose games at Madison Square Garden on Saturday evening. If their work of the season is to be taken as a criterion of their ability they should return this year with another feather in their caps.

The Varsity relay team which makes the trip is scheduled to meet Colgate University and New York University in a triangular race. It is of interest to note that these same two teams were the opponents of M.I.T. in the Millrose games last year. The race was of the usual close nature, and was won by Colgate, with less than ten yards separating the winner from the M.I.T. anchor man at the finish. N. Y. U. finished third in the race.

Regular Team Will Run

Coach Hedlund is very well satisfied with his team as it ran in the B. A. A. meet a week ago, and intends to take the same men with him to New York. The line-up will be composed of Captain Jack Hallahan, F. A. Ladd, Jr., R. W. Reynolds, and Dick Berry. If an alternate is taken he will be named at the last minute from the list of able candidates. This team ran a great race against Harvard last week, losing to a faster team only after a brave struggle. The previous week the same men took part in the K. of C. games where they defeated Maine. They have been training faithfully and should improve their time considerably Saturday evening.

Benjamin Will Enter High Jump

In addition to the members of the relay team the coach is planning to take Phil Benjamin, the star high jumper of the squad, provided that his entry is accepted in time. Benjamin is a Sophomore and has won several prizes for his performances in the field events since his entrance at the Institute. His latest feat in tying for first place in the championship jump at the B. A. A. games, among such men as Charles Major, is enough to warrant an opportunity to try for new laurels afield. He made a jump of six feet in that meet, a mark that is good for points in most collegiate circles.

Sports Desk

As a preliminary to the meet with Princeton which is only a week away, the Gym Team will give an exhibition at Posse Nissen tonight at 7:30 o'clock. This is an annual exhibition, and will aid Coach Hincks in picking the team to enter the coming meet. Captain Fairchild, Couper, Reynolds, Wells, and Dolloff will be the stars in the exhibition. After their meet with Princeton, the gymnasts will meet the Army on the following day at West Point.

Many events are in store for the freshman tracksters this month, starting next Saturday, when a considerable number of them will enter the New England championship events at the Schoolboy Games. The freshmen have several men who could be dangerous competitors for the New England titles. These games will be held in the Boston Arena, and will be

in order to get back into mid-season form again. Coach McCarthy expects to have the team in first class condition by the time of the game, with all of the regulars back in the line-up. Boston University Business school is the next team on the yearlings' schedule and they play this team in the Hangar gym a week from Wednesday. The freshmen showed considerable strength in the Harvard game and with a little more practice they ought to come through with a victory.

attended by men from all over this section of the country.

On February 22, Washington's birthday, the freshmen will again have an opportunity to collect some honors at the National Junior Indoor Championship meet which will be held in the new Boston Garden. These games are for men who have never won a senior championship event, such as a sectional championship, or a first place in collegiate competition.

Tomorrow will be a busy day for Institute sports in general. At this time of the year things always begins to quicken, and continue to be lively for the remainder of the term. At the Hangar there will be a first class wrestling bout with Harvard, while the freshmen grapple with Andover in the academy town.

The swimming team will help to complete the program when the Varsity meets Rensselaer at Troy, and the freshmen take on the Boys' Club. The Gym Team performs with Bowdoin at Brunswick, Maine, the Varsity boxers exchange blows with Syracuse, and the Relay Team runs at the Millrose Games. Altogether it will be a busy weekend for the Cardinal and Gray.

On Monday, the yearling boxers will have their final tryouts before meeting Yale next Saturday. The frosh mittmen have been doing good work, and the competition in the lighter classes will be especially hot.

As yet the freshman team is still without a heavyweight, but it is hoped that the position will be filled before the meet.

On Wednesday, February 27, the first dual meet for the freshmen will be held. The opponents will be Huntington School, which has a track team worthy of most college freshman teams. Last year Huntington came over here and was beaten by a fairly close score. This meet will have the usual events and will give the men experience for the spring season.

With the opening of the new term interest is taking a revival among the
(Continued on Page 4)

FRESHMAN NOTICE

There are a few vacancies in the freshman assistant track managership competition, which leads ultimately to the position of Track Manager and Cross Country Manager. The competition lasts until May. Men who are interested should report at the track house this week.

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