



Varsity Hockey Team Wins First Victory of Season By Defeating Norwich 5-0

Playing a hard and fast game, Technology's hockey team won their first victory of the season Monday night, defeating Norwich University by a score of 5-0. The Varsity showed a vast improvement over their other two games, their passing being especially good, considering their handicap of playing on poor ice. Norwich showed little in the way of offensive hockey seldom getting past the Engineers' defence.

The Varsity made one goal in the first period, three in the second, and one in the third. The first score came after ten minutes of play when Captain White and Crosby carried the puck down the ice together and scored on a shot from the wing, Crosby making the goal after receiving a pass from White.

Play Best In Second Period
The second period opened with a bang, the Technology men rushing their opponents off their feet and scoring after 20 seconds of play, Hall making the goal on a short pass from Cullinan. The team showed marked improvement in this period, the Norwich sextet being on the defensive continually. After 9 minutes of play in this period Crosby went through the entire Norwich team unassisted and shot one through for another goal. Two minutes later Ford made a beautiful shot from center taking the goal tender by surprise. That ended the scoring for

Holder of Aerial Records to Speak

Lieutenant Champion to Talk on
High Altitude Flying at
A.E.S. Smoker

A cordial invitation has been extended to all members of the faculty and student body by Paul S. Baker '28, President of the Aeronautical Engineering Society, to attend its smoker at which Lieutenant Carleton C. Champion will give a talk on high altitude flying in Room 3-270 tonight at 7:30 o'clock.

Lieutenant Champion is the present holder of the world's altitude record for both seaplanes and "all-types" of planes. These flights were made in a Wright "Apache" plane. The seaplane record is 37,995 feet while the "all-types" record is 479 feet higher, being 38,474 feet. He established the records within a few weeks of each other. He has expended effort toward the development of high flying and has perfected things which aid in altitude seeking flights. Lieutenant Champion is an officer in the United States Navy, and was graduated from the Naval Academy in 1919. He is at the Institute at the present time doing graduate work. The society will provide free smokes to all those who attend. This is the last smoker before Christmas vacation and following its usual custom, the society will open the meeting to all members during an informal discussion period after Lieutenant Champion's talk.

Tree Spreads Cheer To Homberg Inmates

Students at the Homberg Infirmary have been given a Christmas tree, which is located in the waiting room in Building 1. The purpose of the tree is to give a touch of home life to those boys who are ill. They may entertain their friends in the waiting room during the holidays. Five stockings which will be filled, have been placed on the tree, one for each class and one for the graduate students. Incidentally, it has been rumored around that there is a co-ed at the Infirmary at the present time.

Straw Ballot Shows Dorms Favor Circus

A straw vote to determine the opinion of the dormitories on the proposed reincarnation of the Tech Circus was sponsored by the Dorm Rumor Saturday. The campus dwellers were overwhelmingly in favor of the continuation of the circus as shown by the vote of 97 in favor of its continuation to the opposition's 6 ballots. Ten signified that they were indifferent and two ballots had to be cast out. The result of the vote represents the opinion of almost all the dorm men since those who subscribed to the Dorm Rumor and those who do not read the paper were allowed to vote.

SOPHOMORES HEAR OF ADVANCED R.O.T.C.

Remainder of Course Devoted to
Discussion of Work of
Various Units

Students in the Sophomore first term Military Science Course are to hear talks on the work of the various branches of the Army represented at the Institute in the advanced R. O. T. C. corps. These talks will occupy the last two weeks of the course and will be given by men who are in charge of the advanced work, and in the work on which they will talk.

Engineer Five Hopes To Gain Fourth Victory In Game Against Manhattan

Hoping to gain their fourth consecutive victory, the Cardinal and Gray basketball team will meet Manhattan College of New York City in the Hangar Gym this evening at 8 o'clock. Coach McCarthy expects the game to be interesting as Manhattan has the reputation of putting out strong teams.

VICTOR M. CUTTER IS LECTURER HERE

"Pioneering and Engineering in
The American Tropics"
is Subject

Mr. Victor M. Cutter, President of the United Fruit Company, is to be the second Aldred lecturer of the year. The address on "Pioneering and Engineering in the American Tropics" will be delivered in Room 10-250 at three o'clock on Friday afternoon. Only Seniors, graduate students and members of the instructing staff will be admitted to the lecture, and classes which are held at the same time will be excused so that these students may be present.

This series of lectures was founded in 1923 by Mr. John E. Aldred in an effort to give students of Technology

Much of yesterday's practice session was spent in shooting baskets as the team missed a large number of their attempted shots in last Saturday's game and Coach McCarthy hopes to cut down this percentage. Monday night the team held a fast scrimmage which was the only workout that the team has had since last Saturday's game; although there was a very light scrimmage last night.

Manhattan Loses First Game
In their first collegiate game of the season Manhattan lost to St. Francis by a 17-13 score. However, they defeated a strong Alumni team 33-16. The New Yorkers have a new coach, James Houlihan, and this will be the first time that the Engineers have been up against one of his teams.

In all probability Coach McCarthy will start the same five that he used against the Newport aggregation.

Eaglerock Company Gives Scholarship

Four Year Course Prize for Best
Articles—90 H.P. Plane
Alternate Award

In order to encourage an interest in aviation in all its branches, the Alexander Aircraft Company of Colorado Springs has recently announced a contest to be held among the undergraduate bodies of the various colleges in the United States. The chief prize will be a four-year scholarship in aeronautical engineering in any of the leading schools of the country. As an alternative, the winner may choose to receive a standard-equipped Eaglerock Airplane with a ninety horsepower motor. The contest is to open on January 1, 1929, and will close on April 30, 1929. Awards will be made June 1, 1929.

The competition consists of the writing of four short magazine articles on any phase of aeronautics. The winning series is to be published in the "Alexander Aircrafter," which is a monthly magazine published by this concern.

Offer Ten-Hour Flying Course
Besides this first award, the Alexander Aircraft Company is to give a certain number of ten-hour flying courses to those who deserve merit. This will give a chance to those who have no opportunities to learn to fly, as well as create interest in aeronautical subjects.

This contest is of special interest to Technology students because of the remarkable facilities for gathering material, whether technical or non-technical, about the Institute. Since the papers are to be only four to six hundred words each, it is easily within the power of the average engineering student. Anybody who is interested may write for information and rules of competition to Darell Boyd Harmon, Secretary, Committee on Awards, Alexander Aircraft Company, Colorado Springs, Colorado.

Illuminated Model of Institute on Display

Anyone who wishes to see a replica of the Institute at night should visit the Information Office in Building 10, anytime after 4 o'clock. Mr. William Jackson has placed three electric lights in back of a photograph of Technology and has cut holes through the windows, dome and street lights, making a photograph that appears very similar to the Institute as viewed from across the Charles after dark. This model will be exhibited only after dark as the desired effect cannot be obtained in daylight.

EXAMINATION SCHEDULE

Printed below is the list of first term final examinations being given from January 21 to January 26 inclusive. Registration Day for the second term is February 4.

Three hours are allowed for all examinations except as noted. Complete examination schedules, including the rooms in which the various examinations will take place will be distributed from the Information Office, Room 10-100, after the Christmas Vacation.

Three hours are allowed for all examinations except where noted under name of subject.

SUBJECT	YEAR
MONDAY, JAN. 21, 9 A.M.	
1.561 Advanced Structures	G
2.20 Applied Mechanics	G
2.501 Adv. Heat Engineering	G
3.31 Fire Assaying	G
4.411 Architectural History	1-2
4.461 European Civ. & Art.	3
4.481 European Civ. & Art.	3
5.20 Water Supplies	3
5.40 Special Methods	3
6.511 Electric Circuits	G
6.531 Org. & Adm. Pub. Serv. Cos.	G
6.603 Electrical Eng., Principles	G
7.31 Bacteriology	4
7.601 Health Education	G
8.01 Physics	1
8.381 Theory of Relativity	G
8.801 Electrochemistry, Principles	3-4
9.93 Automotive Fuel Problems	G
10.931 Automotive Fuels	G
13.11 Theory of Warship Design	G
13.13 Theory of Warship Design	G
D22 Descriptive Geometry	1
MONDAY, JAN. 21, 1.30 P.M.	
1.481 Foundations & Soil Mech.	4
1.70 Water Power Engineering	4
2.271 Theory of Elasticity	A.O.
2.43 Heat Engineering	4
3.43.3.431.3.432 Metallurgy	4
4.471 European Civ. & Art.	4
6.03 Electrical Eng., Principles	4
6.041 Electrical Eng., Principles	4
6.09 Electrical Eng., Principles	4
7.80 Biochemistry	4
8.231 Advanced Physics II	4
10.31 Chemical Engineering	4
10.311 Chemical Engineering	4
10.72 Iron and Steel	G
13.03 Naval Architecture	4-G
13.83 Terminal Facilities	3
TUESDAY, JAN. 22, 9 A.M.	
1.491 Soil Mechanics	G
2.31 Materials of Engineering	3-4
5.25 Chemistry of Foods	3
6.521 Alt.-Current Machinery	G
6.541 Power Stations	G
6.651 Elec. Power Dist.	G
8.431 Elas. & Photoelasticity	G
10.52 Chemical Engineering II	G
17.31 Building Construction	3
D21 Descriptive Geometry	1
Ec31 Political Economy	2-3
L63 French, Advanced	1
Special Examinations	

SUBJECT	YEAR
TUESDAY, JAN. 22, 1.30 P.M.	
1.41 Structures	4
1.45 Theory of Structures	4
2.251 Dynamics of Machines	4-G
2.721 Machine Design	4
3.41.3.411.3.412 Metallurgy	4
4.61 Town Planning	4
6.221 Central Stations	4
6.251 Electric Mach. Design	4
6.281 Wire Comm. Prin.	4
6.311 Electrical Comm. Prin.	4
7.03 Theoretical Biology	4
8.82 Electrochemistry	4
10.21.10.211.10.212.10.213.10.214	4
13.54 Marine Engineering	4
13.58 Marine Engineering	4
16.04 Adv. Airplane Design	G
L65 French, Advanced	2
M21 Calculus	2
Special Examinations	
WEDNESDAY, JAN. 23, 9 A.M.	
1.35 Roads and Pavements	3-4
(2 hours)	
2.30 Materials of Engineering	3
2.70 Heat Engineering	3
(2 hours)	
2.40 Heat Engineering	3-G
2.44 Heat Engineering	3-4
2.44 Heat Engineering	3
(X only)	
2.801 Automotive Engineering	G
5.01 Chemistry	1
5.531 Organic Chemistry II	G
6.01 Electrical Eng., Principles	3
6.02 Electrical Eng., Principles	3
6.07 Electrical Eng., Principles	3
6.211 Electric Railways	4
6.58 Operational Calculus	G
7.301 Bacteriology	4
8.221 Advanced Physics I	3
16.06 Ad. Airplane Structures	G
16.76 Aeronautics	G
Special Examinations	
WEDNESDAY, JAN. 23, 1.30 P.M.	
2.17 Applied Mechanics	2
2.46 Heat Engineering	4-G
2.461 Heat Engineering	A.O.
2.71 Machine Design	4-G
2.711 Machine Design	4
2.731 Machine Design	4
7.361 Industrial Microbiology	4
7.58 Vital Statistics	4
8.03 Physics	2
8.241 Electromagnetic Theory	4
17.41 Building Construction	4
Ec56 Corporate Organization	3
Special Examinations	
THURSDAY, JAN. 24, 9 A.M.	
1.48 Foundations	3-4
(1 1/2 hours)	
2.441 Heat Engineering	3
3.01 Mining Methods	3
5.651 Chemical Principles	3
5.82 Physical Chemistry	3-4-G
(2 hours)	
6.301 Electrical Comm. Prin.	3
6.561 Electrical Comm. Prin.	G
7.07 Mycology	3
(2 hours)	
7.711 Tech. of Food Products	4
10.25 Industrial Stoichiometry	G

SUBJECT	YEAR
THURSDAY, JAN. 24, 1.30 P.M.	
13.33 Ship Construction	3
16.33 Airplane Engine Design	G
Ec61 Business Law	4
M11 Calculus	1
M12 Calculus	1
M51 Engineering Science	3
Special Examinations	
FRIDAY, JAN. 25, 9 A.M.	
1.26 Ry. Maintenance & Signals	4
1.63 Hydraulics	4
1.64 Hydraulics	4
1.75 Hydraulic & Sanitary Eng.	4
1.77 Sanitary Engineering	4
2.281 Adv. Mech. & Theory of Elasticity	G
4.421 Architectural History	2-3
(2 hours)	
5.10.5.101 Qual. Analysis	2
5.12 Quantitative Analysis	2
(V only)	
6.44 Elec. Trans. & Dist. of Energy	4
6.661 Iron Elec. Mach. Develop.	G
7.541 Public Health Admin.	4
8.15 Photography	4
10.361 Chemical Engineering	4
13.31 Ship Construction	2
(2 hours)	
Ec21 Political Economy	2-3
(2 hours)	
Special Examinations	
FRIDAY, JAN. 25, 1.30 P.M.	
1.21 Railway & Highway Eng.	3
1.211 Railway & Highway Eng.	3
(2 hours)	
1.731 Adv. Water Power Eng.	G
2.15 Applied Mechanics	2-3
2.151 Applied Mechanics	2-3
(2 hours)	
2.16 Applied Mechanics	2-3
2.211 Applied Mechanics	3
7.11 Anatomy & Histology	3
7.701 Tech. of Food Supplies	3
8.301 Atomistic Theories	G
13.01 Naval Architecture	3-4
E11 English and History	1
M31 Mathematics	3
Special Examinations	
FRIDAY, JAN. 25, 1.30 P.M.	
1.25 Eng. Constr. & Estimates	4
2.05 Mechanism of Machines	3
(2 hours)	
2.06 Mechanism of Machines	G
(2 hours)	
3.03 Economics of Mining	4
5.50.5.501 Organic Chemistry	2-3
(2 hours)	
17.21 Building Construction	2
M22 Differential Equations	2
History (College Transfers)	
Special Examinations	
SATURDAY, JAN. 26, 9 A.M.	
L11 German, Elementary	G
L21 German, Intermediate	G
L23 German, Intermediate	G
L51 French, Elementary	G
L61 French, Intermediate	G
M791 Th. & App. Elasticity	G
Special Examinations	
SATURDAY, JAN. 26, 1.30 P.M.	
Special Examinations	

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INBREEDING

LAWs of heredity have given us quite a pronounced distaste for the peculiar results of intermarriage. Where once the proper thing to do was to wed the nearest of one's kinfolk, the dictates of modern science and custom now call for unions that bring together the ends of the earth, and the old system of castes, self-sufficient families, and carefully guarded royal blood has rather passed into oblivion.

Marked examples of the effects of inbreeding are too prevalent in history and present life to warrant repetition here. Insanity, debility, and disfigurement have often been blamed upon excessive intermarriage, more or less erroneously it is true, but the principal drawback is the failure of this practice to do aught but perpetuate certain existing traits. Nothing new comes into the relationship; the old is purified, intensified, till even it is of little value. Hence there comes the constant cry of the modern world: "New Blood!" New blood in business; new blood in manufacture, in art, in literature. Why not, then, a bit more new blood in teaching?

Almost a complete parallel exists between the instructional world and the biological as far as the effects of inbreeding are concerned. If graduates immediately become instructors in the halls of their Alma Mater, they may retain all the exceptional teaching methods they have experienced in their undergraduate days, but they retain unconsciously all the evils as well; only by accident do they instill anything new. Thus are the faculties of all our colleges who pride themselves on their self-perpetuation simply laboratories of professorial inbreeding.

Often these colleges attempt to remedy the situation by importing a foreign professor or so, with much the same purpose as certain eastern families have assimilated bits of European nobility—the added prestige is remarkable. But a single infusion here and there, for prestige alone, is futile. Were the practice to become more consistent and sensible much might result—we have seen such effects in earlier American immigration when hardy, spirited stock of every race mingled in such an influx of new blood as the world has seldom seen—and all for the best.

We at M.I.T. often point with pride at our innumerable graduates who now largely compose the instructional staff. We have profited by this inbreeding greatly. We have instructors who know the Institute and its methods better than could any outsider. But does not this lead to stagnation? True, we can perfect what superior qualities we now possess, but how can we expect to develop breadth of view solely within our own limited scope? It can't be done. We must either import new blood in abundance, or else give our own blood the opportunity to strengthen itself by a temporary transfusion into another collegiate family.

THE PRESENT TREND

PREVALENT indeed in the college world of today is this effort to find out just what is wrong with the schools, just where the inevitable stumbling block is hidden, and just how the situation may best be improved. Student investigation committees work spasmodically; newspaper editors attempt to tear to pieces the traditional American educational system; college professors themselves break into print condemning their very brothers for their antiquated, childish ways. Why? Because it is in the air.

Were this unrest merely confined to a small locality, its effect would be rather negligible; but spread as it is throughout the country, lasting results of some sort may be expected. That this wide-spread criticism is just a fad, however, should not be taken for granted, as there must be some deep-seated malady beneath to cause that unrest. In "Professor" by Allan Holben in the current issue of the "Atlantic Monthly", we find a gentle trace of this criticism, which is given far greater emphasis in "Our Truant Professors" appearing under the name of Addison Hibbard, Dean at the University of North Carolina, in the "Outlook" of December 5. We recommend these, together with "The Effective College", by Robert L. Kelly, as interestingly typical of this present trend.



The Lounger notes with interest and much chuckling that they've done it again—those fur-coated intellectuals from up the avenue, otherwise reknowned in the popular song. Did mere intercollegiate jealousy prompt the crimson ones to endeavor to outdo the Tech rioters of a couple of years ago? Was it all just an attempt to show the sermy engineers down the river that "the loyal sons of Harvard know no fear?" If jealousy was the underlying motive the Lounger must curl his lip in scorn, for Tech men have no community of interest with those whose favorite sport is the mobbing of individual subway guards or policemen.

Ask any witness of the latest Field Day whether the mob, some two or three hundred strong, molested a single fireman in the company that answered the alarm sent in by some over-scrupulous crank. We have vindicated our record, time and again, of respect for those in authority, and it is, perhaps, on this account that we are so cordially despised by John Harvard.

With nigh onto fifty years of Tech life behind him, the Lounger can safely predict that a great unpleasantness is due to come soon into the lives of those who inhabit the vicinity of Harvard Square. After many a weary hour spent in Ec lecture, the Lounger knows whereof he speaks, when he says that Harvard boys had better quit being boys, if they know what is good for them. For as surely as the hoi-poli of Central Square ape the collegiate ones their fun coats, their ill manners, and their untimely

drinking, just as certainly will they some day imitate their fashionable collegiate riots, and if some competent leader will only lead the inspired rabble up Massachusetts Avenue to Harvard Square, then will the lads with the crimson neckties be confronted with their first experience of those good old days when men were men and not college mobs. The fight would be better than the Lounger has seen for many a day.

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"OUR PIONEERING WORK HAS JUST BEGUN"

HOCKEY TEAM SHUTS OUT NORWICH 5-0

Varsity Basketball and Wrestling Teams Have Meets Tonight

Cardinal and Gray Hopes To Gain Fourth Victory In Game With Manhattan

Coach McCarthy Expects to Use Same Lineup as Started Against Newport

(Continued from Page 1)

Brig Allen, and Bob Nelson as forwards, Captain Bernard Brockleman jumping center, and George Lawson and Dave Motter on the defense. Bates will probably alternate with Nelson at forward while Coffey and McDowell will probably get into the game later.

Manhattan Line-up Announced
Mike Mazurki, a six foot five inch center weighing 220 pounds will be Manhattan's leading threat. However that does not worry McCarthy as Captain Brockleman is six foot two and is considerably lighter than the New York heavyweight, and thus may be able to take the jump away from Mazurki.

Three other Manhattan men who are expected to start have had previous experience in Intercollegiate basketball circles. James Noonan and Vincent Keber, both veterans of three years will take care of the forward end of the line. George Shand a two-year veteran will be one of the guards while William Keegan, a senior, who has never reported for the sport before will be the other guard and is the only man in the starting lineup who is not a letter man.

Brockleman Plays Well
Although Captain Bernard Brockleman's name does not often appear among the list of the leading scorers he is one of the team mainstays. So far this season he has been able to out jump all of his opponents and he is confident that he will be able to get the tap against Manhattan's six and a half foot center.

Tonight's game will be the last one before Christmas, as the team will get a vacation until Jan. 9 when they meet Brown at Providence. The dormitory cheering section which made its first appearance last Saturday is expected to be out in full force again tonight.

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Dear Sirs:

I happen to be blest with a host of very fine friends, mostly "highbrows"—professors, scientists, et cetera. Generally at Christmas time they show their remembrance and all that with some little gift—a box of cigars, fishing tackle, a book—all that sort of thing.

Well, this Christmas many seemed to centre on tobacco. Now, mark you, these fellows have no communication with each other. They live in widely separated parts of the country, so it was no "put-up" joke on me or anything like that. But here came seventeen boxes of tobacco, and sixteen of them the familiar blue "Edgeworth!" The seventeenth was a very flossy walnut, brass-trimmed box, but if I know tobacco, the contents were Edgeworth with a little perique in it. Just coincidence, perhaps, but a queer one. Am not an habitual smoker of Edgeworth, so they weren't catering to any especial taste of mine. Looks like a consensus of opinion among the "highbrows"—or quite a batch of 'em—that Edgeworth is the stuff, the proper caper for a gift.

Sincerely yours,
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OARSMEN PRACTICING DAILY ON MACHINES

Haines Keeps Squad in Condition by Short Workouts

Rowing three times a week on the machines since indoor practice began, the Varsity crew has been keeping in shape for their spring program. Since Field Day, about twenty men have been reporting for half-hour workouts, which will be continued until the weather permits the shells to go on the river again.

Head Coach Bill Haines has had all of the men under his personal supervision, and has given each man individual attention to help correct any faults in his rowing. A new program for the workouts has been inaugurated this year, and has proved very beneficial to the men. The practice are begun with setting up exercises, the purpose of which is to develop the leg and back muscles of the men. The men are then allowed to take any position in the boat for a workout of twenty minutes. This allows each man to shift his position when he cares, and gives him the benefit of rowing behind different men each day to pick up the good points of his neighbor's style.

The regular tri-weekly workouts will continue until the mid-term exam period, after which intensive training will begin.



One of the most encouraging phases of the handicap meet of last Saturday, from the standpoint of the Varsity, was the fine work of Dick Berry in the six-lap and Jack Hallahan in the four-lap events. Berry ran this race, which is exactly a half-mile, in 2:02 1/5, starting from the five yard mark. This is very good time for early season work on an indoor track. Hallahan showed his old form, and should be a valuable asset to the Varsity relay team this season.

Mitchell's comeback in the eight-lap race was the surprise of the afternoon. He had not been out since the close of the cross country season, and was thought to be in poor condition. Though he had a handicap of thirty-five yards, he did very well to win this race from men who have been out continually since the beginning.

The 35-yard dash was the closest race that has been run on the track for a long time. It had the judges puzzled for a while, for the result was little better than a toss-up. To pick five winners in their correct order was next to impossible, although the decision of a dead heat would have been out of the question.

One freshman who is showing unusual ability is Lynch, who won the two-lap race from scratch in the fast time of 35 2/5 seconds. He was fifth in the 35-yard dash as well, putting himself in a class with the best.

In the field events the work of Rucker, in the shot put, and of Benjamin, in the high and broad jumps, was outstanding. Both of these men are Sophomores, and have already shown good form in their events.

Bringing their ever famous Dorm Cheer along with them, the Dormitory Cheering section made its first official appearance at the Newport game. Although some people maintain that it is impossible to stir up school spirit around the Institute the Dorms are out to show that there really is some left in the Institute. They promise to have another large crowd out for the Manhattan game. Some of the members present had kazoos along with them and this added to the dorm's quota of noise.

VARSITY MATMEN FACE NEWTON "Y" IN PRACTICE MEET

Squad Has Rubber Mat Cover to Reduce Mat Burns and Infections

TEAM APPEARS STRONG

When they meet the Newton Y. M. C. A. at Newton, tonight at 8 o'clock in a practice meet, the wrestling team will have an opportunity to look over the candidates for the official meets which will come in January, February, and March. Those men of the Varsity that have been entered for tonight are: Chibas, 116 pounds; Perkins, 125 pounds; Cooper, 135 pounds; Der Marderosian, Captain, 145 pounds; Pitbladdo, 155 pounds; Stone, 165 pounds; and Sterns, 175 pounds.

All of these first string men have had considerable experience, and have good backing in all classes except the unlimited and 175 pound, which have only one man. The Newton team has been strong in its past meets, and it is expected

Polo Club Opens Indoor Season on Trip to Vermont

Loses to Fort Allen Team After Hard Fight—Norwich Wins by Large Score

Traveling to Vermont to open the indoor season proved rather unsuccessful for the M. I. T. Polo Club. When the team returned to Boston after the weekend, they had been beaten twice, Norwich University and Fort Ethan Allen being the victors.

The first match, with Norwich at Northfield, was pretty even until the last period, when Norwich stepped out to win the game 18 to 6. Turnbull starred for the Engineers, making four out of their six goals.

In Sunday's game at Fort Ethan Allen, the Club was not beaten quite so badly. The match with the soldiers was very close throughout, and it was only after a hard struggle that the cavalymen managed to come out on top of a 16 to 12 score. Forbes of Ethan Allen was the star of the game. Longfellow of M. I. T. scored eight of the Club's twelve goals. One M. I. T. goal was made by one of the ponies kicking the ball between the posts.

Club Recognized by Institute Committee

Until recently the poloists were allowed to use the name "M. I. T. Polo Team," having been given provisional recognition by the Advisory Council on Athletics last spring, and was recognized as an official Institute team. At a recent meeting, however, the Council withdrew its provisional recognition because of the expense attached to the sport, and the players were no longer able to represent themselves as a Technology team. As the Institute Committee has recognized the Polo Club, the players are authorized to use the name "M. I. T. Polo Team," and as such the team actually represents the Institute, although it may not compete in I. C. A. A. matches. The team, not being in the M. I. T. A. A., is not eligible for the Institute athletic awards, and receives no funds beyond those contributed by members of the Polo Club.

SUMMARIES
First Game

M. I. T. Polo Club Norwich
Turnbull, No. 1 No. 1 Clapp
Longfellow, No. 2 No. 2 Guihault
McCasky, No. 3 No. 3 Ellis
Substitutions: Sise for Turnbull, Turnbull for McCasky. Score: Norwich 18, M. I. T. 6. Referee: Col. Edwards. Time: four 7 1/2 minute periods.

Second Game

M. I. T. Polo Club Fort Ethan Allen
Turnbull, No. 1 No. 1 Forbes
Longfellow, No. 2 No. 2 Forster
McCasky No. 3 No. 3 Greene
Goals: (M. I. T.) Longfellow 8, McCasky 2, Turnbull 1, pony 1. Score: Fort Ethan Allen 16 1/2, M. I. T. 12. Referee: Capt. Farrand. Time: four 10 minute periods.

Cardinal and Gray Puck Chasers Have Easy Time Defeating Norwich Team

to give the Cardinal and Gray matmen some real competition.

Freshman Squad Is Strong

Along with a strong Varsity, a very good freshman team has been developed. Many of the men on the squad have shown considerable aptitude toward wrestling, and although only two or three have had any previous experience, the squad appears capable of winning their coming meet with Harvard. All of the weight classes on the freshman squad are well represented, and a second freshman team will probably be picked, as substitute to the yearling first string. The more outstanding men on the freshmen squad who will probably be on the team are: Ward, Vassalotti, Negus, Axford, and Lozor.

A new mat cover has been spread over the old canvas one that has burned many a shoulder and caused many a pain, and it is meeting with increasing favor. The mat is made of re-enforced rubber, and does not burn the shoulders, which is a disadvantage of canvas mats. It can also be kept much cleaner, and the infections will be considerably reduced.

Coach Greene has invited all men who are interested in getting some exercise and learning something about wrestling to come out any Monday, Wednesday, or Friday. Coach Greene will illustrate new holds for about fifteen minutes every day, and a different hold will be taken up at every lesson. This is a good chance for any man desiring some experience in wrestling to come out, and learn under a competent instructor.

The freshman schedule for 1929 is as follows.

Jan. 5—Harvard Freshmen at home.
Jan. 9—Tufts Freshmen at home.
Jan. 12—Yale Freshmen, away.
Feb. 1—Springfield Freshmen, away.
Feb. 9—Andover Academy, away.
Feb. 15—Brown Freshmen, away.

The plea of new students at Western Reserve University (Ohio) is for more organizations and social functions. This lack of campus activity, which is experienced in so few schools, seems to be the result of the death of former clubs and organizations because of lack of interest or insufficient time.

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Brilliant Playing of Dan Lucy is Feature of First M.I.T. Win

(Continued from Page 1)

the period, the Cardinal and Gray being content to play a defensive game.

Many Substitutes Used
In the third period Cullinan after 2 minutes of play took a pass from Crosby and shot a fast one through for the fifth and last goal. The rest of the period found numerous substitutions on the Technology team. Coach Bill Stewart giving all the men a tryout.

Crosby played very well on the offence while Dan Lucy starred on the defence, Lucy showing himself to be the fastest player on the ice during the game.

The lineups:

M. I. T. NORWICH
White (Capt.) l. w. l. w. Youngerman
Cullinan, r. w. r. w. Hamm
Crosby, c. c. Wainwright
Lucy, l. d. l. d. Hourin
Hazeltine, r. d. r. d. Graham
Riley, g. g. Fullerton
Substitutes: M. I. T.—Peene, Ford, Hall, Donahue, Pear, Deyarnard, Fahey. Norwich—Bugbee, Bastion, Barney.

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OFFICIAL BULLETIN

ECONOMICS

The following speaker will lecture before the class in Business Management in Room 1-190:

Mrs. L. M. Gilbreth
Consultant in Management
December, 19, 9 A.M.

Subject: "New Approach to the Problem of Wage Incentives"

FACULTY CLUB

Lecture in the Walker Memorial, Faculty Dining Room, by:

Mr. Paul H. Wilson
Secretary of Grafton & Knight Co.
December 19, 12 M.

Subject: "Calendar Simplification"

ALDRED LECTURE

"Pioneering and Engineering in the American Tropics"

by
Mr. Victor M. Cutter
United Fruit Company
Friday, December 21, 3 P.M.

For Seniors, Graduates and Members of Instructing Staff

CALENDAR

Wednesday, December 19

12:00—Faculty Club Meeting, Faculty Dining Room.
6:00—Alpha Chi Sigma Supper Meeting, North Hall.
7:00—Mathematical Seminar, Faculty Dining Room.
8:00—Varsity Basketball, M. I. T. vs Manhattan, Hangar Gym.

Thursday, December 20

4:00—Motion Pictures of Ontario, Canada, Room 10-250.
6:00—Boston Theta Chi Club Dinner Meeting, Faculty Dining Room.

Friday, December 21

3:00—Aldred Lecture, Room 10-250, Mr. V. M. Cutter.

Saturday, December 22

6:30—Chinese Students Club Dinner Meeting, North Hall and Faculty Dining Room.

Notices and Announcements

GROUP PICTURES

Group pictures are now in the Technique office on the third floor of Walker Memorial and may be seen by undergraduates.

SENIOR PICTURES

All proofs of Senior Pictures must be returned to Room 11-004 before 5 o'clock tomorrow.

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WRESTLING

All men wrestling in the meet with Newton Y. M. C. A. are requested to report at the Hangar Gym at 5 o'clock today. All men are urged to be present as final plans will be discussed.

TECH SHOW

There will be no Tech Show rehearsal this afternoon but there will be on Wednesday and Thursday immediately after the Christmas vacation.

T.C.A. XMAS TREE PLACED IN LOBBY

In order to further the Christmas spirit at the Institute, a Christmas tree has been decorated in the Main Lobby, and a sign placed on it wishing all a merry Christmas from the T. C. A. This is the first time that this office has placed a tree in the Main Lobby, previously having it in the Main Dining Room of Walker Memorial. It was decided that more students would view the tree at its present location than in the Dining Room.

Canadian Movies Outline Means of Fire Protection

Other Films Present Scenes of Niagara and Ontario's Natural Beauty

In addition to exhibiting the natural beauty of Ontario, the modern means of fighting forest fires were explained in the official motion pictures of the Province that were shown yesterday afternoon in Room 10-250.

In the film entitled "Spare Time," a graphic story was told of that little known branch of the government service, the forest protection. Contrary to popular belief, the forest ranger is busy at all times, for "on the extent of our preparedness depends our efficiency when a fire comes." The average cost of protecting the vast forest area is approximately two cents an acre.

In modernizing the fire fighting equipment, Ontario has adopted the airplane as a means of "spotting" fires. This branch of the service was shown in the film, "Air Patrol." "Summer Sorceries" and "Niagara in Winter" presented many picturesque views of Ontario's scenery which serve as a great attraction for tourists.

Woman Graduate In Philippines

Miss Edna Gerken '26 Appointed to Position in Far East Islands

Miss Edna Gerken '26, Director of Health Education at the Durfee High School, Fall River, Mass., has been appointed to go to the Philippines for two years to assist in the development of a health education program for the school children of the Islands. In this capacity she becomes the associate of Miss Sally L. Jean, consultant in health education in New York City and formerly Director of the Child Health Organization of America.

While at the Institute Miss Gerken participated in the health education researches under way in the department of Biology and Public Health and contributed to the development of a school health appraisal form which has been widely used in evaluating the quality of health work in public schools. Up to the time of her appointment she has been connected with the high school at Fall River where one of the most progressive pieces of health work has been carried forward under Superintendent H. H. Belisle.

MR. V. M. CUTTER TO LECTURE ON FRIDAY

Second Aldred Address Open to Faculty and Students

(Continued from Page 1)

an opportunity to hear men who have achieved eminent success in business, industry, and engineering discuss their experiences. Mr. Aldred found that when students got out of college they usually became confused when they tried to connect their theoretical knowledge which they obtained at college with the problems confronted when they get to practical work. He believes that the students can get a better understanding of such conditions by hearing these prominent men. Later in the year Mr. M. H. Aylesworth of the National Broadcasting Company, Dr. Owen D. Young, chairman of the board of directors of the General Electric Company, and Dr. F. B. Jewett, president of the Bell Telephone Laboratories will lecture.

Now that the excitement of football season has passed away, the students of all the colleges are turning their attentions to basketball, hockey, and other winter sports for amusement.

Roy Chapman Andrews

Just back from three years thrilling expedition in Asia. Will give his lecture "The Newest Search For The Oldest Man", illustrated with motion pictures, Wednesday evening, December 12, at 8:30 o'clock in Symphony Hall.

Benefit of the Associate Nursery School
Tickets \$1.00, \$1.50, \$2.00, \$2.50 and \$3.00.

No Military Science for Frosh on Friday

Freshman military science classes will not be held on Friday, December 21, according to the announcement of the Military Science Department. The vacation of all the members of the class of '32 will therefore begin at 4 o'clock. This favor is being granted to the freshmen as it was done before Thanksgiving so that they may be able to catch the trains and boats which leave between 4 and 5 o'clock.

R.O.T.C. UNITS TO BE EXPLAINED SOON

Will Present Various Courses to Sophomore Students

(Continued from Page 1)

These lectures will give the Sophomores the information necessary for an intelligent selection of the unit with which they wish to pursue the required second term course and also of the scope and advantage of the Advanced R. O. T. C. Course.

All lectures will be given in Room 5-330 and as there are three sections each lecture will be given three times. There will be but two such lectures the first week in January. These will be a talk on the National Defense Act by Major Eddy, and one on the Engineer R. O. T. C. Unit by Lieutenant Moore. The following week Major Winslow will give two lectures on the Coast Artillery Corps and Major Somers will give a lecture on the Ordnance Unit. The third week Major Somers will give his second lecture on the Ordnance Unit and Captain Kellogg will talk on the Chemical Warfare Service. The final lecture of the series will be by Lieutenant Frierson on the Air Corps Unit.

Captain Eyster has been giving talks for the past week on the work of the Signal Corps and movies will be shown today and tomorrow on the work of the Signal Corps Unit.

T.E.N. PRESENTS ITS NEW DECEMBER ISSUE

Various Engineering Subjects Are Discussed

(Continued from Page 1)

understanding by the people of the factors of our industrial development. "Science and Fire Fighting" by E. R. Schwarz '23, is an explanation of the late improvements in reducing fire hazards by scientific means.

Other articles are "Technical Training—Plus" by T. J. Little Jr.; "Industrial Possibilities of X-Ray Examination" by Prof. John T. Norton '18; "The Industrial Application of Microbiology" by Prof. Samuel C. Prescott '94; and a description of the cooperative course in Railroad Engineering given through the Boston and Maine Railroad.

Departmental notes, excerpts from articles describing the latest developments in engineering, book reviews, and editorials complete the issue.

A.A.U. PASSES NEW ELIGIBILITY RULE

According to an announcement made by Dr. Allan W. Rowe '01, an amendment has been made to the rules of the Amateur Athletic Union which has the effect that from now on all men entering meets under the jurisdiction of the A. A. U. will be certified by an official representative of the college entering them.

This rule places the responsibility of certifying the status of the competitors on the colleges, and relieves the men from having to fill out certificates themselves from time to time. In addition the small entry fee, usually \$.25, will be paid by the college athletic association instead of by the men themselves. This matter was turned over to the Executive Committee of the M. I. T. A. A. for further action with the suggestion that the certification be taken care of by the president and secretary of the Association.

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Boys Club Work Is Discussed At T.C.A. Meeting

Many Prominent Workers Were Among Those Present Yesterday

Several men who are prominent in boys club work, in and around Boston, attended the Boys Work Conference which was held at the Grill Room in Walker Memorial yesterday afternoon from 1 to 3 o'clock. The main object of the meeting was to discuss the needs of the boys of Greater Boston and methods of assisting them.

Among those present at the meeting were: Mr. Donald C. North, Boy Scout Executive, Mr. Gilbert H. Roehrig, Boys Work Secretary of the Boston Y. M. C. A., Mr. W. Duncan Russell, Director of the boy's activities of the Community Service, Hugh Hamilton, Jr. '29, M. Richards Boyer '29, John B. Hutchins '31, Lowell M. Moses '30, Louis S. Morse, Jr. '31, Gordon R. Williams '29, and Wallace M. Ross.

Methods that the T. C. A. might employ in order to help the needs of the boys of Greater Boston were discussed. It was agreed that, at the beginning of the second term, representatives be stationed in the T. C. A. office or at some other location convenient to the students, at certain hours and over a period of several days, in order to answer questions. It is believed that many men at the Institute would be interested in assisting in this type of work.

It is hoped that three things will be accomplished, namely, that the various boys clubs around Boston will be aided, that students at the Institute will be helped, and that the individual undergraduate himself will be developed personally along the lines of human engineering, and humanities. Men who have recently graduated from Technology will be given an opportunity to spend their spare time in assisting these activities.

This is the first time that a meeting of this kind has been held at the Institute and it is hoped that much good will result.

MR. WILSON TO TALK ON CALENDAR CHANGE

Mr. Paul H. Wilson of Worcester will address a meeting of the Faculty Club in North Hall today at noon. The subject of his talk is to be the proposed thirteen month calendar, on which Mr. Wilson is an authority, having had considerable experience in connection with the plan to simplify thus our calendar system. Mr. Wilson is Secretary of the Craton-Knight Co. of Worcester, well-known makers of leather goods.

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