

Dorm Celebrators' Riotous Wrecking Is To Be Probed

Smashed Windows And Doors Replaced During Xmas Vacation

Grilling Of Suspects Gives No Clue To Drunken Vandals

Students Responsible Must Pay For Damage If They Are Caught

An intensive investigation is now underway to determine the identities of the persons responsible for the damage done when several students ran amuck in the Dormitories before the Christmas vacation, The Tech learned last night from Professor Leicester F. Hamilton, chairman of the Dormitory Board.

No Admissions as Yet

Several men thought to be connected with the affair have been questioned, it was revealed, but definite responsibility for the damage done had not been placed last night. Expected admittance of responsibility by those involved has not yet been forthcoming.

Action to force the perpetrators to pay for the results of their vandalism was indicated shortly.

The heavily reinforced glass windows and doors which were recklessly smashed in the early morning carousal.

Catholic Club Holds Annual Charity Ball At Walker On Friday

Bundle Of Old Clothes Required For Admission; Proceeds Go For Charity

350 couples will dance Friday night at the Catholic Club's Charity Ball, to be held in Walker Memorial from 9 until 1.

The dance is sponsored by the Federation of college Catholic Clubs, and guests from all of the local clubs at Boston and vicinity are expected to be present.

Admission to the dance will be thirty-five cents and a bundle of old clothes. Those coming without the required bundle of clothes will be charged seventy-five cents.

The proceeds of the ball will be donated to charity, as will the old clothes taken at the door.

The girls at the dance will come from the various girls' colleges in the Boston vicinity. They will represent their local Catholic Clubs. Among these colleges are Wellesley, Portia, Simmons and Worcester Teacher's College.

Thermodynamics Lecture Cancelled for Silcox Talk

Over one hundred students will be excused from a regular Wednesday morning thermodynamic lecture scheduled to be delivered by Professor Carl L. Svenson, of the Department of Mechanical Engineering, in Room 3-270 at eleven o'clock.

At this time Dr. L. K. Silcox, vice president of the New York Air Brake Company, will speak on "Mastering Momentum". This lecture, which is the second of a series started last year, is open to all members of the staff and student body.

Junior Prom Set For Early March

Price Will Range From \$7.50 To \$8.50, Depending On Orchestra

Tentative plans for this year's Junior Prom bring the estimated costs to a range between \$1688 and \$1912, depending principally on the location of the dance. To take care of this it is expected that the ticket price per couple must be somewhere between \$7.50 and \$8.50.

These estimates were presented in a report to the Institute Committee on December 17.

If the dance is held in Walker Memorial, the lower admission price will take effect and a well-known orchestra will be procured. If the dance is held at the Statler Hotel, the \$7.50 price will still prevail, but with a less known orchestra. By raising the price of admission to \$8.50 the affair can be held at the Statler, but the services of a lesser known orchestra must be procured.

All these estimates are based upon 225 paid admissions, including incidentals. The date of the dance is not yet definite, but will be March 5, 12, or 19. The orchestra for the affair will not be chosen until late in January.

Generally rising prices are the

T. C. A. Ticket Sales Set Record This Year

Bus, Steamer, Plane Sales Up; Train Sales Down

Sales of railroad, airplane, steamship and bus tickets before the vacation by the T. C. A. travel bureau showed an increase of fifty percent over those of the same period last year.

The most notable increase in sales is credited to airlines, with receipts of over \$5,000 more than those of last year. The railroads were about \$2500 behind their mark set last year.

Total receipts this year from December

Seniors To Give Midwinter Dance Next Friday Night

Members Of The Class of 1937, Five Year Men, and Transfers To Be Admitted Free

Tommy Blanton's Band Plays

The annual midwinter dance given by the Senior Class will be held Friday evening, January 15th, in Walker Memorial. The dance, which is formal, is financed by the class treasury, and is free to members of the class of 1937.

Music for dancing from nine until two o'clock will be provided by Tommy Blanton's Hollywood orchestra. The band, which recently completed an engagement at the Westchester-Biltmore Club in New York City, is now on a road tour of the East.

There will be no charge for admission for members of the class of 1937, five year students who will graduate in 1938, and transfers into the class of 1937. No tickets will be distributed, admission being arranged at the door. The money from the class treasury, which will finance the dance, is obtained from profits from previous class functions and from the 44 cent dues paid annually into the class treasury from the tuition fees of every student.

Guests who have thus far been invited are Dr. and Mrs. Karl T. Compton, Dr. and Mrs. Vannevar D. Bush, Mr. and Mrs. Horace S. Ford, Dr. and Mrs. Delbert L. Rhind, Dean Harold E. Lobdell, Professor and Mrs. James R. Jack, Professor and Mrs. Leicester F. Hamilton, Mr. and Mrs. Ralph T. Jope, and Mr. and Mrs. John M. Nalle.

(Continued on Page 4)

Professor Bisharin Speaks About Plants At Chemical Meeting

Soviet Science Academy Member Talks On Vernalization December 28

Professor V. Bisharin, of the Soviet Academy of Science, addressed a meeting of the International Institute of Chemistry on Dec. 28 in Room 10-250. Professor Bisharin, speaking on "The Role of the Chemist in Agriculture," discussed recent developments in agriculture in the Soviet Union, including the new method of speeding plant growth, the so-called "vernalization process," invented by the noted Russian scientist, V. N. Molotov.

Stressing the importance of soil Chemistry in modern cultivation, Professor Bisharin mentioned the giant soil survey of the Soviet Union, which has recently been completed after several years of work. This survey, covering almost the entire productive area of the country, includes data as to the nature and productivity of the soil, as well as information obtained from borings and excavations.

"Vernalization," he stated, "consists in part of soaking plant seeds in water, and subjecting them to low temperatures. It has the result of speeding up growth, producing plants that mature sometimes as much as four or five weeks earlier than usual. He stated that the process, while still in its experimental stage, has shown great possibilities for use in countries with large populations and limited growing area.

Professor Bisharin is considered one of the world's greatest bio-chemists, and has recently been awarded the Order of Lenin by the Soviet Government, in recognition of his valuable work in this field.

T. C. A. Drive Exceeds Quota By Thirty-Five Cent Sum

An indication that prosperity has at last returned to Technology is that the T. C. A. drive has "gone over the top" for the first time since 1928. The \$3350 quota was exceeded by thirty-cents, the reason being that a man who had intended to give \$1.50, finding himself short of change, gave instead a check for \$1.85 which he had received from the T. C. A. book exchange.

Notices are being mailed to 855 students who pledged a total of \$1926. If desired, pledges may be paid with other Institute fees for the second term. Checks should be made payable to D. L. Rhind, Bursar.

B. Einarson Speaks On Ancient Greece

"The Academy In Plato's Time" Begins Lowell Series Of Lectures

The first in a series of lectures on the teaching of philosophy in ancient Greece is to be given on Friday, January 8, when Dr. Benedict Einarson of Harvard University will speak on "The Academy in the Time of Plato." The lecture will be delivered in the Lowell Institute, Huntington Hall, 491 Boylston Street at eight o'clock in the evening.

Dr. Einarson, who is a member of the Society of Fellows at Harvard, will give a total of four talks. The other lectures and their dates are: "The Lyceum in the time of Aristotle", January 12; "The Academy and the Lyceum in the Hellenistic age", January 15; and "The Academy and the Lyceum in Roman Times", January 19.

Tickets for these discussions may be secured free of charge by applying to the curator of the Lowell Institute, at 491 Boylston St., Boston, and enclosing a stamped, self-addressed envelope for each ticket desired.

Boston Tourist Group Will Inspect Institute

Compton Will Greet Visitors On Saturday Afternoon

President Karl T. Compton will greet a party of seventy-five tourists who will visit the Institute Saturday afternoon. This will be the first visit to Technology by this group, which is sponsored by the Greater Boston Federation of Churches. Trips are made weekly during the winter to points of interest about the city such as the waterfront, the Italian quarter, and Harvard.

After the president's greeting, the party will make an inspection of the buildings. Afterwards, moving pictures of the Institute will be shown, and, finally, dinner will be served the group in Walker Memorial.

Electron Theory Topic Of Speech By Dr. Compton

President Discusses Intellectual, Social Significance Of Electron

Ins. Head Is Retiring Pres. Of Am. Ass. For Adv. of Science

Declares Electron Has Added New Life To Modern Physical Science

"No instance in the history of science is so dramatic as the discovery of the electron, which, within one generation, has transformed a stagnant science of physics, a descriptive science of chemistry, and a conventionalized science of astronomy into dynamically developing sciences fraught with intellectual adventure, interrelating interpretations, and practical values," said Dr. Karl T. Compton, who is retiring President of the American Association for the Advancement of Science at their annual winter meeting last week in Atlantic City.

The subject of his address was "The Electron: Its Intellectual and Social Significance." "Progress comes not by revolution or the discarding of past knowledge and experience, but is built upon past experience and its natural extension once the vision from the new vantage point is secured," warned Dr. Compton.

(Continued on Page 4)

240 Couples Usher In 1937 At Annual Dance Of 5.15 Club

Mob of Enthusiastic Commuters Dance To Alden Porter Till 4 A. M.

Walker Memorial, with the main hall and the grill room filled with tables, proved incapable to hold all the merry-makers who wished to attend the 5:15 club's annual New Year dance, and, as a result, many were turned away.

The success of the dance, measured by the attendance, the comments of the guests, and the number of dancers remaining until almost four o'clock, was greater than that of any former party. Alden Porter's music was received very enthusiastically.

Horns, klackers, rattles, and other noisemakers helped the 240 couples bring in the New Year; balloons cascaded from huge paper balls hung from the ceiling. Supper was served at 12:30 in the main hall and in the grill room. The chairman of the dance committee announced a tentative profit of about \$80.

The chaperons included Prof. and Mrs. Leicester C. Hamilton, Professor and Mrs. Robley D. Evans, Professor and Mrs. Wadsworth and Professor Charles S. Draper.

Strongest Magnetic Field Yet Attained Is Developed By Dr. Bitter At Institute

A magnet capable of producing a field of 100,000 gauss, the highest permanent field ever attained, has been developed at the Institute by Dr. Francis Bitter of the Department of Mining and Metallurgy.

Works on Power Station

The enormous amount of power required to produce this field—150 times more intense than that of the earth—was made available to Dr. Bitter by the Edison Electric Illuminating Company in laboratory space provided in one of its large substations. Here, with controlled, direct current up to 12,000 amperes at 250 volts to draw upon, the first test was carried out with a maximum current

of 8,000 amperes, and a field of 75,000 gauss was produced.

The copper coil of this magnet, which is six inches in diameter with an inside diameter of one inch, is enclosed in a bronze shell. Without the water-cooling system used to dissipate the heat energy developed, the magnet would melt within one second. The amount of power produced is sufficient to supply a small town and more than sufficient to operate 50 automobiles at 80 horse power. In the recent experiments conducted at the Edison substation, two large bus bars were used to carry current to

(Continued on Page 4)

Sophomore Earns Institute Expenses By Testing Cream During Summer

Living on the fat of the land is Francis A. Obert, '39. Obert, a Course VII student, is working his way through Technology by tasting cream during the summer for a Charlestown milk company.

A native of Mattapan, Obert is very modest about his tasting prowess. "Just come about it naturally," he says, and claims that he is fond of cream despite the fact that he has spent more than one thousand hours tasting dairy products from all over the country. "Sometimes I have to pass judgment on ice cream. Oh boy, is that some job!"

Samples of cream are taken from quart jars and tested for viscosity,

bacterial content, and sweetness of taste. Partaking each day from 300 of these 40-quant jugs for seven days each week, Obert, in the course of a single summer, tests more than forty-thousand samples—enough cream to feed all of Technology for more than six months.

Red cheeked and healthy looking, Obert claims that his "avoidupois" does not increase as a result of his calorific job. "Last summer, in fact, I lost twelve pounds."

"By the way," Obert exclaimed as the 10:05 bell rang and he ran off for an 8:03 lecture, "my taste in women is as good as my taste in cream. The Freshmen co-eds"

The Tech

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MASTER OF MONOSYLLABLE

HE KNEW WHAT THEY WANTED

PROBABLY few newspapermen were more praised and criticized at the same time than the late Arthur Brisbane. Certainly he was a successful journalist, from a monetary point of view. His reputed quarter of a million dollar annual salary was probably this country's highest for a newspaperman.

Brisbane's method of editorial writing is supposed to have set a new style. He used simple words, simple sentences, and on the whole simple ideas. No doubt he did influence other editorial writers to abandon the ponderous style of writing, but few went as far as Brisbane, who apparently, although never admittedly, must have realized that anything very complicated would go over the heads of his readers. After all, he did work for Hearst, and while he carefully avoided any appearances of "yellow journalism" he addressed his writing to the same class of readers that Hearst aimed for.

Brisbane was capable of dramatizing ideas effectively, although many of them were not very sound. He capitalized on the horrors of air warfare, although his ideas were far-fetched and rather fanciful. His attempts to write science news down to the level of his readers generally resulted in a hodge-podge, at least to one who knew something about it. Through it all, he never opposed any of Hearst's—his employer's—ideas, yet he managed to give the impression that he was independent and neutral.

How great a journalist he might have become had he remained independent we cannot tell, for he chose to serve Hearst, and he did it well and faithfully.

NEUTRALITY LEGISLATION

CIVIL WARS VERSUS INTERNATIONAL WARS

ONE of the most pressing tasks before this Congress is the framing of new neutrality legislation or the modification of the existing law. At present, executive fiat declaring the existence of a state of war between two or more nations makes legal an embargo on trade to all belligerents in the case of certain specified goods. This law has proved itself ineffectual in the case of the recent conflict in Spain, for the law applies only to international wars. Hence American industrialists are not constrained by law from shipping contraband to either or both parties to the conflict.

One proposed solution is to extend the power of the President by allowing him to declare the existence of a civil in addition to an international war. This proposal is opposed on the grounds that it would give the executive too much power. Yet some such declaration must be made. It is agreed by most that an embargo is a necessary part of

any plan to keep the United States neutral in case of a European conflict. The embargo extends to all parties to the dispute, so favoritism is obviated. It would, however, be manifestly ineffectual to have provision for an embargo but no means of determining when it should be put into effect.

The executive branch, and more particularly, the President, through his Secretary of State, is in closer touch with foreign affairs than any other organ of the government. Treaties are concluded by them and only ratified by the legislative branch. The Supreme Court, in a recent decision, has upheld this view. What is more natural, then, than to have the executive branch declare a state of civil or international war? Let he who is best fitted to perform a task perform it and business is conducted with greatest despatch and efficiency. There is no action where despatch and efficiency are more necessary in regard to neutrality.

Other problems present themselves which are not so easy of solution. Just what goods shall be declared contraband offers many puzzling bones of contention. How legislation, whatever its nature, shall be enforced also is a question of no mean importance. The answers to these problems are of momentous importance.

FORGOTTEN RULES

THE POINT SYSTEM

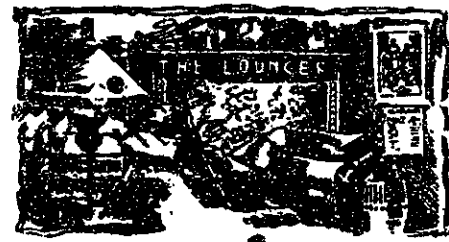
FOR some time now it has been a question as to what is to be done with those men who are overpointed according to the present existing point system. The question was answered at the last meeting of the Institute Committee when the names of all the overpointed men were read and motion was carried to allow them to continue to be so. It was explained that each case had been considered and investigated and that, since none of them were found to be in a crucial condition scholastically, there seemed to be no reason why they could not continue in all of their activities.

This method of treating men who are in more activities than allowed by the point system is not a new one, however. Those of us who attended Institute Committee meetings three years ago remember that it was a common occurrence for someone on the Point System Committee to get up, announce that so-and-so was over pointed, and move that that person be allowed to remain so. At that time it was agreed, even by the members of the Point System Committee, that such a use of a point system could not be of any use. Since that time the Point System Committee has been absorbed by the Walker Committee in an attempt to unify control and provide for the more effective functioning of both.

During the last year or so little has been mentioned about the point system and those men who have been overpointed. It was hinted about that plans were under way to revise the point system to make it more workable and enforceable. But now, at about the time when it was expected that the Walker Memorial Committee would be giving birth to something new and substantial in this line, it is suddenly revealed that, worse than having done nothing, the Walker Memorial Committee appears to be satisfied with the system as it stands.

Of course it is obvious that the whole system is very silly. If the set-up were any good it would not be necessary to make exception to the rule nine times out of ten. If it is not workable, as the case seems to be, it should be revised and rewritten in a form which is workable and enforceable.

Also it must be remembered that the purpose of the point system should not be to control cases of low scholarship and limit the activities of these men. There is a Dean's office at the Institute for the performance of these duties. Possibly the fact that all overpointed men at this time were found to be scholastically firm is evidence of the effective functioning of the Administration in this respect. But, on the other hand, it is the purpose of a point system to keep divided among many hands the duties and privileges of extra-curricular activity, and to encourage among all students the choosing of those activities from which they feel they can get the most benefit and to which they can lend the greatest service.



Split-Second Syncopation

Not that we have any firmly welded and catalysis-resisting horror of music-mid-der-food. But we can on occasion be induced to contribute enlightening comments as to the character and ancestry of the gentleman who tends to the disjointed musicale pervading the morning atmosphere of Walker. We can overlook his choice of selection, although Ratsy Waller in our opinion isn't fit company for even Cream of Wheat. We can forgive if not forget that he beheads and details all of the acceptable renditions that turn up by mistake. We can put down to the Technological temperament his experiments with volume. But we can only attribute to pure malice the defiant "squaa-tuowee-snukk with" which he obliterates the time announcements.

Perhaps he has no ulterior motive. Perhaps he really believes that Tech Men Who Get Up Late don't want to know what time it is. But we know from personal experience that with an unknown time margin of safety one gulps and devours and the first time, if at all, that one remembers the character of the intestinal impedimenta is when the Guy on Your Right whispers "Hey, you got egg on your chin." But that, our Soph Co-ed Advisor tells us, is unfair to Walker. We feel therefore that it is to the advantage of all concerned, especially Us, to make practical use of the Walker amplifying system and let us know how goes the hour.

Delicacy

As always the topic under discussion was the turn-over in admirers of a Junior co-ed. One of the rejected of long standing commented upon the elevation to favor and recent banishment of his friend across the hall. Said she, "But he was forced upon me." Said he, "Well, he's still a nice fellow". So she remarked regretfully, "That's just the trouble."

Obliteration

Various sources of information report as follows on the New Year's Dance. "It was the wettest dance in years." "It was the driest dance in years." "Everybody left early." "It took the reserves to put everyone out." "The chaperones conducted themselves with dignity." "The chaperones were undignified."

All of which indicates that the dance was as ever, and even if there is a story going around about the individualistic couple who got away from the common herd in a side room off the East or maybe the West Lounge and were found all plastered up next morning when the place was being swept out, we haven't found anyone yet who'll give us a signed statement on the indiscretion, so you can take it for what it is worth.

Romance

Home for the holidays and several days post Christmas found ourselves meandering along behind three girls of lower high school age. The passing of Christmas was more than noticeable and in fact the effect from top to bottom would have turned a cross-eyed cow green. Being colorful. Around the corner in our direction swung Young America, marching very un-Christmaslike from the playing field. Romance flicked an eyelid and Young Hopeful full of the Yuletide Spirit and New Clothes dropped a Christmas Mitten. But Fortune who put runs in stockings at formals and grease behind ears after formals also places mud-puddles in the way of brilliant hand-fuzz and wool. Finis Life's Young Tragedy.

Comment

Heard in front of the T. C. A. Bulletin Board. "Titian didn't show any better taste in women than Rubens did."

Reviews and Previews

KEITH MEMORIAL:—Lily Pons, that petite, Frenchy, singing star, more or less of Metropolitan Opera fame, appears in *That Girl From Paris*. It is difficult to understand what Gene Raymond and Jack Oakie can do as supporting actors, but it may be safely assumed that Lily will come across with her customary pleasing presentations.

KEITH BOSTON:—Ken Murray seems to be the center of attraction this week on the stage with his sidekick Oswald, the original "oh yeah" man. Of course, as usual, the show uses the same gags that were used some time ago in Earl Carroll's *Sketch Book* and in all vaudeville performances since. However, they still seem to get the laughs in spite of themselves. In addition, the six men which constitute the original Dixiland Band, including the conductor who wrote the popular *Tiger Rag*, give the program a swing touch. On the screen, Patsy Kelly wows them again in *Kelly the Second*.

METROPOLITAN:—Cecil B. DeMille gives us another production *The Plainsman*, featuring Gary Cooper and Jean Arthur. Included in the supporting cast are James Ellison, Charles Bickford, Helen Burgess, and Porter Hall. Jane Withers, juvenile star of several screen productions, appears in person on the stage with the *Radio Rogues* and *Marty May*.

LOEW'S STATE AND ORPHEUM:—Eleanor (Dancing Feet) Powell of late Broadway fame in *At Home Abroad*, lends her talents to the motion picture production, in *Born To Dance*. If she doesn't surpass the dancing ability of Fred Astaire, she is at least a close second for first honors. There was once talk of teaming of these two upon the decision of Ginger Rogers to attempt dramatic roles, but, because of the difference in the type of dancing which the two do best, the plan was abandoned. But Eleanor doesn't need any help to put her dancing across because when she gets started there is the audible rhythm of a machine gun to say nothing of the visual effects which she adds to the scene.

FINE ARTS:—They are still holding over *The Ski Chase* featuring Hanne Schneider. This is the fifth week. Perhaps it is that, since there is no snow for the convenience of amateur skiing enthusiasts in New England thus far this winter, it is partially satisfying to see the remarkable scenes from this picture, and the breathtaking stunts of Schneider who is well known internationally for his professional skiing.

UPTOWN:—The *Smartest Girl in Town* features Gene Raymond and Ann Sothern. The two make a reasonably good team. Another team the Dionne Quins also appear in *Reunion*. As a specialty the latest edition of *The March of Time* is presented.

MODERN AND SCOLLAY:—They have made something of Tennyson's poem, the *Charge of the Light Brigade*. Breath taking drama is displayed as the 600 ride into the valley of death. Errol Flynn is the dashing young hero, and Oliva DeHavilland adds a touch of romance as the woman torn between two lovers. Jane Withers adds a lighter touch to the bill appearing in *Can This Be Dixie*.

WASHINGTON STREET OLYMPIA:—Two productions, each of which was a feature in itself when it first ran, appear together on the same bill. One of them is *Three Men on a Horse* which cannot come up to the stage production but which, nevertheless offers plenty of laughs if one is in the right mood. Mae West appears in *Go West Young Man*.

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Hoopsters Drop Game To Mass. State Squad In Last Few Seconds

Foul In Last Period Decides Second Close Game Of Season

Friday night, Dec. 18, the M. I. T. basketball team lost a tight game for the second time when it was defeated 37 to 36 by Mass. State in the Hangar gym. With two minutes left to play in the last period the score was tied at 36 all, at which time Mass. State sank a foul shot making the score 37 to 36. The M. I. T. men were not able to score again in the remaining seconds.

The Mass. State team started very slowly and Tech grabbed the lead at once. Mass. State however rallied rapidly and the first half ended with Tech barely in front by a 19 to 17 score.

The game was well attended and unmarked by roughness, although Oliver Kangas, left forward and high scorer of the M. I. T. squad, took a heavy fall which luckily had no permanent effect on him.

The team turned in an unusually good performance as a whole. Paul Schneider was second high scorer despite a foot injury suffered in a former game. Lippitt and Katz at guard positions put up a stiff defence.

The team is in good condition now, said Francis A. Fisher '38, manager, today; and with a few breaks should win the better part of the games remaining on the schedule.

The summary:

Table with 2 columns: Technology and Mass. State. Lists players and scores for various games.

Rifle Team To Shoot In Postal Matches

Teams In First Corps Area Compete For Medals

Beginning this week, the Technology Varsity rifle team will shoot a postal match with the other First Corps Area ROTC teams. Four scores will be submitted by each contestant: the first to be shot from a prone position, and the others from sitting, kneeling, and standing positions. Shooting on the first stage is already under way, and the second stage will be started as soon as the whole team has completed the first.

The ROTC match, which extends over January and February, is a medal match. According to Major Hyde, coach of Varsity rifle, the team average must be at least 365 to win.

Scoring 902 points against 888, the squad defeated the first Corps of Cadets on the home range December 18. This was the team's fifth victory of the season.

Because of conflict with freshman firing for MS scores, the range will be closed for Varsity firing Saturday, January 9, from 12 to 1, and Monday, January 11, from 1 to 2.

Hockey Team Loses To Boston College

Sloppy Playing By Both Sides Is Feature Of Close, Rough, Game

In a game featured by poor hockey the Boston College squad defeated M. I. T. Friday, Dec. 18, in the Boston Arena, by a score of 5 to 2.

The teams were well matched and the game was a tight one, tighter than the score indicates. B. C. scored once in the first period, three times in the second, and once in the last. Both of the M. I. T. scores came in the last period. The game was characterized by aimless and sloppy play,

SPORTS COMMENT

Sincere, although belated, holiday greetings from your sports commentator. Our resolutions are but one: To present sports news interesting to a majority of readers. (All both of them!)

Our sportscaster sees a brighter year on the horizon for Technology sports with the soccer team taking the lead next fall. The crystal says that the Basketball team will finish its season in a blaze of glory with a possible win over Harvard. B. U.'s triumph on the ice looks to be complete with another win over the Engineers. The boxing team, will have an average season but the wrestling team will get going after a slow start. Another good year for track, both indoor and out and over hill and dale. The M. I. T. A. A. will recognize baseball sometime this year, but too late to put a varsity team on the field this year. The gym team will be another standout by sweeping all meets except a very tight tussle with Temple. Coach McCarthy's Tech Tourney will be the best in years. Jack Sommers will try again, but the result cannot be forecast. Lacrosse will turn out a surprising team in the spring. And we'll scoop Oscar by prophesying that the Sophomores will take Field Day again this year.

The outlook for the rifle team for the rest of the season looks good with the exception of a hard match with the Sagamore Rifle Club in two weeks. This confidence is expressed by several members of the rifle team and the coaching staff. Annapolis might be a stumbling block but if the shooters keep up the consistent improvement they have been making in the past few matches no doubt exists in our mind that their confidence will be fulfilled. Competitive rifle shooting is one sport in which lack of results cannot be attributed the human equation. Practice and consistent performance are the main elements that a rifle team man has to contend with.

Captain Dodge has done it again. Once again the leader of the natators has hung up a new Technology record in the 150 yard backstroke. That makes twice this year. He first started this pleasant pastime of breaking marks in his first appearance as a backstroker with the varsity team three years ago. Dodge is definitely a standout with Sophomore Chestnut not far behind, on a team of mermen whose ranks are sadly depleted. Our loss to Worcester can be traced to the fact that we lost the relay, and we lost the relay because the men participating in that event were exhausted from having to double up in other races.

One sport was active last week. The dinghy skippers added to their laurels by capturing second place at the annual frostbite regatta on Long Island Sound last week. Although the Engineers were tied by Yale there can be no question of the fact that they have added considerably to the Institute's athletic prestige by placing so high. When they came in ahead of Harvard, they in part made up for the shellacking given to the Beaver pucksters earlier this season.

The examination Holidays, besides being filled with regret by some and anticipation by all, will be the occasion of long trips by the hockey, track, and boxing teams. The boxing team will take advantage of the respite from studies to journey to Western Maryland and Rutgers while the track teams travel to New York to participate in the Millrose A. A. meet at Madison Square Garden. The hockey squad has the most ambitious schedule with games with Hamilton and Union, both away.

Swimmers Lose Close Meet With Worcester

Captain Dodge Again Tops Own Record In Backstroke

Showing far better form than in their first competition the Tech Swimming team lost a close meet to Worcester Tech in a meet held there on Saturday, Dec. 19, 1936. The meet was featured mainly by the swimming of Captain Cleon Dodge '37 and Harold Chestnut '39, captain of last year's freshman team, both of whom scored two first places.

The final score, 43 to 34 does not indicate the closeness of the meet. The lead changed several times and the score was tied at thirty all, without the results of the dives, before the final relay. A victory in the final freestyle relay won the meet for Worcester.

In the opening medley relay Evans and Murphy opened up a sufficient lead to win the relay easily. Harold Chestnut and Frank Gardner '38 cut down this lead by taking first and third respectively in the 220 yard freestyle.

In the 40 yard freestyle, a first by Captain Dodge and a third by Archie Main, '38, tied the score at 12 all. In the following race, the 440 freestyle, Harold Chestnut and Charles Small, '38, put Tech in the lead by taking first and third.

Tech successfully maintained this lead in the backstroke with a win by Captain Dodge, which set a new institute record for the second time this year. Worcester overcame the lead in the breaststroke by taking the first two places and leaving Tech a poor third.

Archie Main turned in a good performance to win the 100 yard freestyle with Winthrop Steele '39 taking third to tie the score again at thirty apiece.

In the final relay, the strain of having to swim several events showed markedly and Tech lost this relay by a considerable margin to drop the meet.

The summary is as follows:

Swimming Medley relay—won by Worcester; team composed of Evans, Murphy, and Smith, time 3:31.2 220 yd. freestyle—won by Chestnut (T); second, Hanson (W); third, Gardner (T); time 2:43. 40 yd. freestyle—won by Dodge (T); second, Karna (W); third, Main (T); time: 20.2 secs. Diving—Won by Dearborn (W); second, Pope (T); third, Gardner (T). 440 yd. freestyle—Won by Chestnut (T); second, Karna (W); third, Small (T); time 6:22.6. 150 yd. backstroke—Won by Dodge (T); second, Hanson (W); third, Officer (W); time: 1:50.6. 220 yd. breaststroke—Won by Evans (W); second, Murphy (W); third, Bernays (T); time 2:54.6. 100 yd. freestyle—Won by Main (T); second, Steley (W); third, Steele (T); time 1:04.0. 400 yd. relay—won by Worcester; team composed of Smith, Evans, Hanson, and Karna; time 4:22.4.

Room will be shut. In this way, it will not prove an annoyance to those in the library and will enable music lovers to hear their favorite pieces without outside interruption.

neither team showing any marked superiority over the other.

The play was rough and numerous penalties were doled out by the referee. Several members of both teams took falls. Clint Hillicker injured his hip slightly.

The somewhat bad play of the M. I. T. team is due mostly to inexperience and lack of knowledge of the finer points on the part of the goalies.

On Monday evening, Jan. 11, the M. I. T. team will play Mass. State at Amherst.

The line-up: rw, Muther; c, Cohen; lw, Weber; rd, Eddie; ld, Hillacker; g, Walsh.

Walker Victrola Now Is In Faculty Room

Petition From Library Users Results In New Site

After a petition had been signed by over 150 students, the Walker Memorial Committee moved the victrola which had been in the Walker Memorial Library corridor into the north end of the Faculty Room. This action was taken because of the distraction caused by the victrola to those in the library.

In its new position the victrola may not be played between 12 and 3 p. m., and it is expected that when it is played the doors of the Faculty

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Midyear Exams Schedule

Large table with columns for Subject, Monday, Wednesday, Thursday, Friday, and Room. Lists various engineering and science subjects and their exam times and locations.

Advertisement for THE ASSOCIATED TUTORS, Riverbank Court Hotel, Suite No. 106—Cambridge—KIR 2680. Review Classes Private Instruction. Includes the slogan 'SAD BUT TRUE!' and 'Exams are only twenty days ahead'.

CALENDAR

Tuesday, January 5, 1937
 5:00—Debate Society Meeting, West Lounge, Walker.
Wednesday, January 6, 1937
 1:00—Exec. Comm. M. I. T. Corp meeting, Silver Room, Walker.
Thursday, January 7, 1937
 12:30—Department of Geology Luncheon, Silver Room, Walker.
 8:00—Faculty Club Meeting, Faculty Room, Walker.

Compton

(Continued from Page 1)

Value of Research to Business

He put a great deal of emphasis upon value of research to business, saying, "I take particular pleasure in mentioning these practical values, for even the most unimaginative and short-sighted, hard-headed, practical business man is forced to admit the justification for the pure research—of no preconceived practical use whatsoever in the minds of those who led in its prosecution—which has been directed at the electron."

"For out of this research have come the following things which all men understand and appreciate: A growing business in manufacture of electronic devices which now amounts to \$50,000,000 a year in America alone; a total business of some hundreds of millions of dollars a year which is made possible through these electronic devices, innumerable aids to health, safety, and convenience; and an immense advance in our know-

ledge of the universe in which we live."

This year's best estimates of the weight of the electron, in the figures given by Dr. Compton, is 9.051 times ten to the minus twenty-seventh. The year's best estimate for the negative charge on the electron is 4.800 times ten to the minus ninth.

Said Dr. Compton, "Many and ingenious have been devices for detecting electrons and measuring mass, charge, and velocity. Out of these, and other experiments, came the knowledge of their basic properties."

"By and large, it is true through the electron has come a marvelous conception of unity and relationship in the more obvious features of the phenomena of physics and chemistry."

By way of conclusion Dr. Compton stated, "I would not give you the impression that it is only the electron which has given new life to modern physical science. A story of similar interest could be built around the new concepts of radiation and atomic energy as expressed in the quantum theory."

Magnet

(Continued from Page 1)

the magnet, each consisting of six strips of copper six inches wide and a quarter of an inch thick bolted together.

The design of the magnet was modeled after a small experimental magnet operating with 25 kilowatts and producing a field of 35,000 gauss over one cubic centimeter. A model even more powerful than the 100,000 gauss machine now in use is in the process of construction. Dr. Bitter's experiments were financed by the Penrose Fund of the American Philosophical Society and from the Joseph Henry Fund of the National Academy of Sciences.

Low Temperatures Sought

The present experimentations in magnet construction were instigated by a desire to produce, by means of a magnetic cooling cycle, a temperature closely approaching absolute zero. Under the influence of a magnetic field, certain salts such as ammonium chromium alum can be made to give up heat to boiling liquid helium. The field is then shut off to protect the material from heat influx. By this method a temperature of approximately 0.2 degrees above -459.69 degrees F is developed.

Properties of Matter Questioned

In addition to seeking the development of absolute zero temperatures, the investigations into magnetic design will endeavor to inquire into the ability of magnetic fields to

change or distort matter and to alter its properties. For such fundamental research magnetic fields of great intensity are necessary, and until recently the types of apparatus available were very inadequate.

Senior Dance

(Continued from Page 1)

The committee for the dance, one of the two major Senior dances of the year, is composed of Richard B. Young, chairman, Wayne M. Pierce, Jr., Frederick R. Claifee, and Rutherford Harris.

Dorm Riot

(Continued from Page 1)

ing of a number of students have been replaced during the vacation.

Replacement Cost \$20

The cost of the replacement, estimated at \$20 by Professor Hamilton, will be assessed upon the vandals if they are discovered either by detection or by their own admittance. In the event that blame for the act is placed on no one, the charges may be borne either by the dormitory committee or by a general tax upon dormitory residents.

Infirmary List

Charles J. Donlan, '38; John F. Gilbert, '40; Maxwell E. Jacobs, '37; Henry A. Kettendorf, '39; Roman L. Ortynsky, '37; John J. Phillips, '38; Chester W. Ross, '39.

Vacation Sales

(Continued from Page 1)

December 14 to 22 were \$7,769.92, as compared with \$5,204.13 last year. A comparison of last year's receipts with this year's follows: Boston and Albany Railroad, '35—\$3,166.30, '36—\$1,261.27; New Haven Railroad, '35—\$1,550, '36—\$1,094.20; Boston and Maine Railroad, '35—\$110, '36—\$100; bus and steamship lines, '35—\$77.83, '36—\$150; airlines, '35—\$300, '36—\$5164.65.

Junior Prom

(Continued from Page 1)

cause of the slight advance over last year's budget, according to the committee. The 1936 dance was at the Statler, with Joe Hayne's orchestra. Eddy Duchin furnished the music at the 1935 prom, which was also held at the Statler.

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