New Groups Admitted

Class B Votes In Council

Two new groups, both fixing their attention on current social problems, were admitted to Class B at the last Thursday's Activities Council meeting, where five Class B activities took place. The two groups admitted were the MIT Student Association for Racial Approach to Disarmament and Peace (RADD) and the MIT Civil Liberties Committee. Both groups are affiliated with SANE—which plans, among other things, to support a February demonstration in Washington which would involve about 5,000 students from all parts of the country.

The MIT Civil Liberties Committee is affiliated with a national group but plans various demonstrations and research projects as does RADD.

Debaters Score At Tufts, Dixie

At Tufts University, the first of the larger New England tournaments, Tech debaters picked up second place after the season, winning second place in the tournament division, and tying for third place in the section teams.

The team of Glen Books, '63, and John Morris, '64, were undefeated during the six preliminary rounds of the tournament.

Frosh Quizbook Plan

A meeting of the MIT Freshman Council was held on Friday, December 13. The Walker Quizbooks, freshman questionaries, a fresh product of Beaver press, were discussed.

Students who bought quizbooks through the mail will receive without cost a second semester quizbook which Walker will publish. The book will be of better construction than the book distributed this summer, to justify a decision for or against the sale of Beaver pins.

T. S. Eliot Speaks Before Capacity Crowd Reads Own Choices

By Roger Weverson '89

T. S. Eliot, a poet and playwright, was introduced for the first time to the MIT audience last Wednesday night in Kresge auditorium last Wednesday night. Students, faculty, and everyone who could get a ticket filled the seats, the aisles, the top floor, and the balcony.

Eliot introduced his readings by pointing out two distinct groups of poetry—that which he liked to read and that which audiences enjoy hearing. Apparently feeling that MIT students are too uneducated to enjoy poetry, Eliot announced that he would read the poetry he liked to read. By implication, this is the poetry audiences do not like to hear. Many Tech students, however, expressed their delight that they were being insulted.

Eliot read selections from "The Family Reunion," "The Book of Practical Cats," and "Murder in the Cathedral" from his shorter works, including "Old俊ty." Throughout the program his voice seemed tired and unenduring. The audience had been informed that he would read the poetry he liked to read. By implication, this is the poetry audiences do not like to hear. Many Tech students, however, expressed their delight that they were being insulted.

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Dance Committee Suggests an All Day Event in the Spring

Due mainly to scholastic conditions, the Dance Committee suggested an all day event in the Spring. Such an event was being considered by the section leaders at the next meeting of the council on December 13.

Three days later the Society held a meeting in Kresge auditorium last Wednesday night.

Trend Toward Monarchy

By Michael Weiss '65

The two recorded wins over neighbors, and, in 91 EC, a large British expert on ancient Rome, brings us to a point of transition. The period approached those of a monarch, and these powers only increased in time. In Syria, these men had powers approaching those of a monarch, and these powers only increased in time. In Syria, these men had powers approaching those of a monarch, and these powers only increased in time. In Syria, these men had powers approaching those of a monarch, and these powers only increased in time.

The Roman Senate was composed of 600 members, and was led by ex-consuls, and ex-consuls, and ex-consuls. On the other hand, men like Cicero, Sallust, and Pompey had great influence, but the Senate was still in the hands of the voting men. As Cicero, in Gaul, Pompey in Spain, and Crassus in Syria, these men had power in the Senate, and this led to the emperors of the future. Cicero was an archaic and ritualistic man, and his funniest. He said that he would read the poetry he liked to read. By implication, this is the poetry audiences do not like to hear. Many Tech students, however, expressed their delight that they were being insulted.

Decline In Religion

During the great decline in Roman life of the time in question was the decline of religion. Obviously, the gods were still worshipped, but not by individuals. The Roman religion was an archaic and ritualistic one, and this led to the emperors of the future. Cicero did not look to the Church of Rome, the Church of England in his second talk. He said that the Romans did not develop their own desire for control of the state, but reached this conclusion of control of the state by the emperors of the future. Cicero did not look to the Church of Rome, the Church of England in his second talk. He said that the Romans did not develop their own desire for control of the state, but reached this conclusion. He referred to another Church of England in his second talk. He said that the Romans did not develop their own desire for control of the state, but reached this conclusion. He referred to another Church of England in his second talk. He said that the Romans did not develop their own desire for control of the state, but reached this conclusion. He referred to another Church of England in his second talk. He said that the Romans did not develop their own desire for control of the state, but reached this conclusion.
10 ROTC Cadets Honored

This MIT ROTC Cadets were presented certificates today awarding them the title of Distinguished Military Student. The group of seniors were presented the certificates by Colonel Irving W. Finch, Professor of Military Science, before a formal promotion of the ROTC Battalions in the MIT Army. RO

The certificates honored were Gordon H. Jones, Oscar Orringer, Paul D. Abramson, Jr., Stephen J. Banks, Albert F. Gleim, Cadet Lieutenant Walter S. Cluett, Peter E. Thurston, Martin M. Homburger and Robert A. Lytle, Jr.

The certificates, signed by Lieutenant General Edward J. O'Neill, Commanding General of the First US Army, cited the cadets "for displaying outstanding qualities of leadership, high manhood, and exemplary academic achievement and exceptional aptitude for military service".

The designation of Distinguished Military Student is both a recognition for outstanding achievement, as well as an important consideration in gaining approval of applications for commissioning in the Regular Army.

New York's most exciting hotel welcomes you! We are hosts to Presidenta, Kings and Queens; to diplomats, ambassadors and travelers from every corner of the earth... and now we look forward to playing host to you.

STUDENT RATES
$3.00 per person, $1 in a room
$5.00 per person, $2 in a room
$6.00 per person, $3 in a room
Reserve your room through any Hilton Reservation Service or write direct to Miss Anne Hillman, Director of Student Relations, The Waldorf-Astoria.

Career Cues:

"This age of specialization opens special opportunities for the well-rounded man!"

Robert Saudlek, President
Robert Saudlek Associates, Inc.

"The more specialists society creates to cope with its complexities, the easier it can be for a non-specialist to achieve success.

If that seems paradoxical, look at this way: the more men who go out for specific positions on the ball club, the more chance you have to wind up as manager! Today's world—in government, business, the arts, even science—needs the well-rounded man. He's the man who can see the entire picture...the man who can draw on a broad background of knowledge, evaluate the problem, then assign the details to specialists.

The world of entertainment may seem somewhat special, but it's a case in point. Today's musical comedy score is often as sophisticated as grand opera. Drama draws heavily on psychology and history. Television productions are concerned with nuclear science and political science. If you've ever watched 'Ozma' you may have seen for your productions have run the gamut of a wide range of man's interests.

So I suggest to you that even though you may concentrate on one special field of interest, keep your viewpoint broad. Keep your college curriculum as diversified as possible. Attend lectures and concerts, the theatres and museums. Above all, read, read, and listen and baton! But pay scant heed to the oracle who says there's no route to that special of直径ization. I don't believe it!"

Robert Saudlek is the creator of many of television's most famous programs—including the award-winning "Ozzman" series. Former network executive and founder of the TV Radio Workshop of the Ford Foundation, Bob enjoys a "Cameal break". He's been a Cameal fan since undergraduate days at Harvard.

And for a special kind of smoking satisfaction...

Have a real cigarette—CAMEL

THE BEST TOBACCO MAKES THE BEST SMOKE

Do South African Lobsters Reside In South Africa or North Atlantic?

By Toby Zieb '63

College
World

Do you know where South Africa is? Probably, you say, it is the southernmost part of the continent of Africa. At least that's where it was the last time you looked at a map. Well, if lobsters are any indication, the location of South Africa is subject to considerable geographic change.

The details of the travels of South African lobsters have recently been reported in The Record, a local newspaper of Antioch College, Yellow Springs, Ohio. The news of the Yellow Springs' restaurant once featured "South African Lobster Tales." In protest against the racial policies of the South African government, however, the restaurant manager ordered a delicacy on the menu and even persuaded the wholesaler to stop importing the lobster tails. A wave of protest from lobster-hungry Antioch students, however, led the manager to investigate the situation further.

It was at this point that the first voyage of South Africa was arranged. South Africa, from the lobsters' point of view anyway, was moved to the island of Tristan da Cunha, 1800 miles off the coast of Africa. The South African lobsters soon remarried that racial policies were homogenous enough to encourage this change. "South African" lobster was rebaptized to the men.

Happiness was not lost to far away. Tristan da Cunha's volcano erupted, and the islanders had to move to the Falklands, where the lobsters was found to be a very inadequate source of lobster. Indeed, the fish from the islands had been more abundant. Yellow Springs, for the time being, had to be content with lobster from New England.

The British government has now announced plans to relocate the remains of the Shetland Islands, where they will be able to subdue South Africa's lobster population. The government will then be able to subdue South African lobster Tales" will come from the Shetland Islands.

Last week it was reported that Michigan students had abandoned the science of telephone-booking and had turned instead to the more practical art of the "talkathon." This week's paper reports that most talkathons are still going strong and that Eastern Michigan University students are keeping the "most musts" race in. In Campus, a new newspaper section has been launched to the science of telephone-booking. It has been reflected rather than abandoned. Students at the University of Alberta have gone in for cramming fallout shelters. It has practical applications, they say.

"Blackhawk" Joins Talkathon

"Meanwhile, back in Michigan, a new type of "musts" race has been set. The brothers of Phi Gamma Delta have abandoned the science of telephone-booking and entered the "talkathon." This week's paper reports that most talkathons are still going strong and that Eastern Michigan University students have set a new world record. The object is to have the most people over a period of time, "musts" race in. In Campus, a new newspaper section has been launched to the science of telephone-booking. It has been reflected rather than abandoned. Students at the University of Alberta have gone in for cramming fallout shelters. It has practical applications, they say.
Ib beer to have when you're having more than one.

Schaefer label--because Schaefer is the one...

It was devoted to reviewing the general concepts relating to the experiments. In classical physics, the term "cross-section" implies a certain area presented by a target in nuclear physics, only a vague semblance of this idea is retained. Depending on the energy of the photons being shot at nuclei, the "cross" presented by the nuclei changes. Photons are not merely stopped or passed, but rather are scattered at various angles to the side. Measuring the distribution of scattered photons enables the experimenter to calculate the cross-section for a photon-nucleus interaction.

At the energies of interest to Dr. Koch's group, two types of photon absorption occur: Compton Scattering, in which the wavelength of the photons changes as they are scattered, and pair-production, where the photon, in the presence of the nucleus, generates a positron and an electron. As the photon energies increase, the Compton process becomes less probable, while pair-production increases; there are corresponding changes in the cross-sections for each type of interaction.

In a certain energy range (different for each element), the two probabilities (before cross-sections) are about equal; some unusual effects occur in this range. In particular, a "giant resonance" appears, in which the cross-section suddenly rises above its normal value in the range. The sharpness of the peak depends on a variety of factors related to the target nucleus.

Dr. Koch next described certain dispersion relations, in a necessarily mathematical form. Theory predicts that the cross-section for elastic scattering depends on the integral of the absorption cross-section over all frequencies. By measuring this integrated cross-section exactly, a good check on the theory can be made. The whole purpose of the dispersion relation is to relate the absorption cross-section to the scattering cross-section.

Turning from the blackboard to a large number of slides, Dr. Koch described the actual experiment in the final fifteen minutes. In the apparatus, a white light spectrum strikes a detector and absorber; large crystals of sodium iodide (5" long by 5" diameter) were used for this purpose. A coincident counter is used to improve the reliability of photon detection in the apparatus.

The results showed a fair energy resolution; in some cases the statistical weight of a large number of counts per point allowed a good calculation of the attenuation coefficient of the photon beam, leading directly to a value of the photon absorption cross-section. Carbon and Beryllium are the two elements investigated most by Dr. Koch and his collaborators; he displayed slides showing results of test runs, the predicted "giant resonances," comparison of Beryllium with Carbon, similar data obtained by Soviet scientists, predicted energy-level diagrams, and an assortment of other results. Dr. Koch explained that by finding at what energy the resonances occurred, it becomes possible to make qualitative statements about the structure of the nucleus under investigation.

Dr. Koch closed by describing a new laboratory for this purpose operated by the National Bureau of Standards. Here a linear accelerator gives a high-intensity beam of high-energy electrons; the entire system is designed to permit a number of very unique experiments to be done.

Course XIV To Offer 'Urban Life Structure'; Field Work Stressed

"The Structure of Urban Life" (14.99), a double credit (16 hour) course, will be offered by the Political Science Department this spring. The course is designed to give, through lectures, readings, and extensive field work, a feeling for what makes the political, social, and economic systems of major cities work. Subjects range from transportation, crime, to urban renewal, to "suburbs," to public policy.

14.99 will be taught by Professor Robert C. Wood, assisted by Fredric Seasholes. Although 14.99 is the only limited prerequisite, the number that can be accepted is limited.

Field work comprises a large part of the course. Last year several students interviewed urban government officials in the Boston metropolitan area.
Graduate Grades

Graduate admissions each year become the concern of the larger proportion of MIT students. The average admission rate at MIT is between 3.0 and 4.5, and it is faced with the task of selecting the best students and determining which offers the best program in their field.

It is a sad reflection upon many schools that some of these students, who have earned a 3.2 in their first four years at MIT and who find that their application is not considered for admission, feel that they are not qualified.

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The first successful results in a detailed, long-term study of radio reflection from the sun were announced last week by the Lincoln Laboratory of MIT. The results of 20 radar measurements, made during the eleven-week period from April 19 to July 7, are reported in the December 1961 issue of the Journal of Geophysical Research. This work is part of the general research program conducted by the Laboratory with joint support from the U.S. Army, Navy, and Air Force.

The measurements were made with a new VHF (very high frequency) space radar system recently installed by Lincoln Laboratory at a field site near El Capito, Texas, believed to be the most powerful VHF radar in the world. The first radar contact with the sun was made by the Space Research Laboratory at Stanford University on April 7, 10 and 12, 1959. The Lincoln Laboratory observation, representing the first time that regular measurements have been possible over an extended period of time, and marks the start of a continuing systematic measurement program.

New VHF Radar System

The effective size and shape of the corona, and the way its size changes with the solar cycle, are accurately measured. The powerful signal from the sun, penetrating the atmosphere, stimulates the electrons in the corona to emit radio waves that are detected 8 minutes later at the earth. The resulting echo patterns, which vary with solar activity, can be used to study the dynamic properties of the corona, and to determine the speed and structure of radio waves propagating through it.

The Lincoln Laboratory's new VHF radar system was designed to study the solar corona, rather than to establish continuous operation for the next six-and-one-half million-mile deep in the north-south direction. The visible edge of the corona, seen in the solar atmosphere, is the point of closest approach to the earth. The effective size and shape cause the speed of radio waves, scattered from the corona, to be less than that of light. As the reflected radio waves travel toward the earth, the transmitted signal frequencies are changed slightly, and the receiver is turned on to detect the returned signal. The reflected signal is measured as it returns from the earth to the transmitter, and the effective size and shape of the corona are determined.

New Year Brings Fine Selection Of New Plays Rolling Into Boston Area

Boston play-goers will be able to choose from four major plays being presented here, after Christmas vacation. "Time, Son of Time," a musical comedy by Pulitzer Prize-winning Joseph Kramm, opens a five-week run at the William Theater on Tuesday, Dec. 28, with Nancy Kelly and Claude Dauphin.

The musical's international popular musical comedy, opens a limited engagement at the Shubert Theater on Thursday, Dec. 30, with Forrest Tucker in the leading role. "Old Vic," a hit play by Pultizer Prize-winning Joseph Kramm, opens a five-week run at the William Theater on Tuesday, Dec. 28, with Forrest Tucker in the leading role. "Sons of Giants," a musical comedy by Pulitzer Prize-winning Joseph Kramm, opens a five-week run at the William Theater on Tuesday, Dec. 28, with Forrest Tucker in the leading role.

Lincoln Lab Finds Sun An Inefficient Radar Reflector

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Public Service, Room 2132, 80 Park Place, Newark 1, New Jersey.
Choral Society’s ‘King Arthur’ Loses Polish

“King Arthur”, the dramatic opera produced last Sunday as the joint effort of the MIT Choral Society and the MIT Symphony Orchestra, was rather disappointing. It lacked the polish which ticket prices seemed to portray, and it turned out to be more like a choral practice than a dramatic opera.

Advance billing for the show indicated that it was to be a play to which the music and songs were only incidental. In actual fact, the Choral Society did nothing but sing the music (and not all of it, at that), leaving the rest of the play, which was considerable, to the imagination. At various times the orchestra, conducted by Helen Rootwright, Donald Sullivan, and Paul Mathews, played piano and string parts, which, though small, were apparently quite difficult to re-remember, for all three had to tell scripts in front of them while doing it. One wonders whether these professionals spend, much, if any, time in practice.

The orchestra kept the performance from being incredibly dreary, though certainly not by force of numbers. They did a commendable job with some of the rather difficult Old English scores, and made them enjoyable even in the absence of the chivalrous dramas these scores were intended to complement. The unearthly tones of the harpsichord lent a certain ancientness to the music which almost seemed to transport one back to Arthurian times.

As for the Choral Society, they made no obvious mistakes, but beyond this we have little praise for them. They strike one, strangely enough, as only a part of a whole which has been hurriedly assembled to Cob. They, like the neighborhood church choir, have a singing at the neighborhood church, and perhaps the material gave them no chance to display their talent; in that case, we may say they may choose to be up to the music which will be present for their next performance.

Warren Wiscombe ’64

New Plays Open in New York Over Xmas

“Madame Aphrodite,” a new musical concerning a middle-aged woman executive who manufactures a beauty cream concoction and a sensitive young salesman who comes to work for her, opens Wed., Dec. 31, at the Orpheum Theater in New York City. The play is written by Ted Mead, who won the Pulitzer Prize and the Drama Critics Circle Award last year for “All The Way Home.” Jerry Herman, who wrote the music for the hit play “Miss Saigon,” also created the lyrics and music for “Madame Aphrodite.”

Also opening in New York, at the Midway Theater, 430 West 42nd Street, is “The Ticket of Leave Man,” on Wednesday, Dec. 20. First produced in London in 1863, this classic 19th century drama, 42nd Street, is “The Ticket of Leave Man,” on Wednesday, Dec. 20. First produced in London in 1863, this classic 19th century drama, about a disillusioned. It lacked the polish which ticket prices seemed to portray, and it turned out to be more like a choral practice than a dramatic opera.

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**Squash Raquets Adelphi Smashed By Harvard, Navy, U. Pennsylvania**

By Bostwick Wyman '62

The MIT squash team beat Adelphi 6-3 at Garden City, New Jersey last Friday for their first win of the season. Don Nelson '62 was outstanding, going one-up in the number-eight spot, beating his opponent 6-3, in a total of five games. Al Pfeiffer '62 won the first match for Adelphi while MIT won all the rest in straight games.

After a victory celebration at Mamma Leone's, the team went to Philadelphia for a match with the University of Pennsylvania. The Penn match was very close, MIT 3-2. All six of the matches went the full five games. Morrow LaBottini '62, MIT captain, Jim Vinter '62, and Bill Mifflin '62, were the Tech winners, while M.I.T. had the best individual record this season, with three wins out of six in individual play.

On Wednesday December 13, the Techmen lost to Harvard, 9-0. Joe Rappaport '62, who lost 3-4, was the only MIT man to win a game from Harvard. Harvard had been ranked second under Yale. This was the intercollegiate squash circuit, and will be a strong contender for the title this season. The MIT freshman lost their first match 9-0; also to Harvard. Marty Snyder was the only MIT freshman to win a reasonable showing, losing to Harvard's Hank Morris, nationally ranked number-one man, in fairly close games.

**Fencers Downed 18-9 In Duel With Harvard**

In a close match that belied its lopsided score, the MIT cavaliers lost their first major challenge to Harvard, 18-9. The match began poorly as MIT lost the first three sabre bouts to a superior Harvard sabre team; however, MIT countered with strong foil and epee teams, which took two bouts out of three for each weapon during the first round. The score for the first nine bouts was Harvard 5, MIT 4. It might be noted that there were twenty-eight bouts in the match, three rounds of nine bouts each; fourteen bouts are required to win a match.

The match was lost in the second round as MIT managed to win only two bouts to make the score 8 to 6 at the end of the second round; 17 to 6 in favor of Harvard. Several critical bouts were lost in this round, and MIT was unable to regain control of the match.

Levi '63, an excellent foil man, lost his first match, and MIT was unable to regain control of the match. Dave Juncker '63, an excellent foil man, lost his epee bout by one touch, Barry Rosen '63 lost the foil bout by the same score.

After two losses in sabre in the third round, one by Bob Mason '63 and one by Barry Rosen '63, MIT had accumulated the required fourteen points to win. Pat Pusey '64, MIT's epee man, defeated the senior Harvard fencer, and Dave Juncker '63 epee man, defeated the junior Harvard fencer, giving MIT a chance to win. However, Bob Mason '63, a very strong fencer, defeated the second Harvard fencer in a tough match. The MIT fencers lost the third round, 3-6, but MIT won the match, 18-9. The two MIT fencers showed considerable promise for the future.

The cavalier's next match is with Brandeis, Saturday, January 6th, at 2:00 p.m. at Da Ponte.
Friday's match, there had been a couple of outstanding scores in squad to average 1426 and shoot much higher on occasion. Until this year, these were: Richard Ludeman '63, 285; Steve Smith '62, and Wentworth in a match at BC last Friday night. The scores six of them could then be expected to come through with fire at least in the low 280's consistently. In each match any two 282; Jerry Skinner '63; 281; Bruce Peterson '63, 280; Joe Wyatt '62, 280.

Coach Ireland hopes to have the entire squad of ten shooters ready to pin his opponent is MIT's undefeated wrestler Jim Evans '63. Evans picked up five team points by being the only man to win by pinning. Several other Tech men were close decisions, giving MIT a narrow 16-13 margin over Williams.

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The Riflers Nip BC, Wentworth

The Rifler Team scored a double victory against Boston College and Wentworth in a match at BC last Friday night. The scores were: MIT 1618, BC 1391, and Wentworth 1234.

The most encouraging aspect of the match was the fact that MIT had six shooters with scores in the 280's for the first time this year. These were: Richard Ludeman '63, 285; Steve Smith '62, 282; Jerry Skinner '63; 281; Bruce Peterson '63, 281; Joe Wyatt '62, 280.

Coach Ireland began to have the entire squad of ten shooters fire at least in the low 280's consistently. In each match any two or three of them could then be expected to come through with a 280 or better. It was this type of situation that allowed last year's squad to average 1426 and shoot much higher on occasion. Until Friday's match, there had been a couple of outstanding scores in each match, but no depth to back them up.

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Phi Delta Theta won the Intramural swimming meet Saturday afternoon as the pool only to have their victory jeopardized by a Sigma Phi Epsilon protest concerning the status of Doug Spreng ’83, who took a second in the freestyle for the Phi Delts.

It seems that Spreng had swum in a freshman meet but was not, according to him, actually a member of the team. The SIG Eps protested this and the outcome of the meet is thus only to have their victory jeopardized.

The Sig Eps protested this and took the second in the freestyle for the Phi Delts; however, the protests were not successful.

A second point went for the Phi Delts in the meet, giving them 17 points to 16 for the Sig Eps.

By Jay Solomon ’83

**Pistol & Rifle**

Five being used to figure the total. Each man has a possible score of ten, a bullseye counting as ten. The participants each have 30 shots apiece for a perfect score of 300.

First place wins five shots (six seconds) slower than a 1 minute for each second, (two winds) a 2 second per string. In rapid fire the contestants have five five shot strings at ten seconds per.

The target for slow firing has a 90 inch diameter bullseye and concentric rings decreasing in value to four. The timed and rapid fire target has a 1.8 inch diameter bull and rings going out to a value of 6.

The meet is controlled by a range officer who takes care of timing the men and making certain that the time limits are observed. Targets are scored by two scorers, one from each team, who may or may not be contestants. There are two types of match: postal and shoulder-to-shoulder. In postal, each man shoots on his home range and sends the results to the opponent. In a shoulder-to-shoulder match the two teams compete on the same range and an equal number of participants from each team shoot at the same time. The number being fixed by the size of the range.

The weapons used are all semi-automatic .22 rimfire pistols which are specialty designed for accuracy. All weapons have adjustable sights to produce the desired balance.

Turning to rifle, many of the participants are experts. Ten men fire for record, the high five being given credit. Thirty shots are fired by each man, ten from prone, ten from sitting and another ten from standing (positions). A time limit of 36 minutes is imposed on the match; alternately the contestants are given ten minutes at each position. A bullseye is worth 10 points and rings go out in descending values to 5. A contact target consists of a small bull’s eye and one shot is fired into each bull. Hitting a bull more than once costs a man one point. A new target is put up for each position. Again, 3600 team points are possible. Anything over 1600 is considered good.

The target rifles are especially made to precise tolerances and generally are single shot. The .22 rimfire usually has peep sights, as optical sights are not permitted. The weapons usually have peep sights, as optical sights are not permitted. The weapons are fired by both sports are furnished by the contestants themselves.

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New Hampshire, Bowdoin Defeat Hockey Team

By Tom Sheahan '63

After an suspenseful start with two victories, MIT's hockey team evened their record last weekend by being shut out twice. Friday night the team were downed by the University of New Hampshire, 4-0. Saturday Bowdoin drubbed the Engineers, 8-0.

Following the Christmas vacation, the freshmen will travel to Colgate for a January 6 encounter. Colgate is generally considered in the same class with UNH, and is favored to win this year. Last year Tech dropped a 3-4 battle with Colgate.

A battle of goalkeepers ended in a 4-0 defeat Friday night. Doug Dunning, New Hampshire's superb sophomores goalie, turned away dozens of concentrated MIT attacks, making 38 saves. MIT netminder Tim O'Brien withstood a heavy barrage to make 33 saves, many spectacularly.

Despite the score, the engineers made an exceptionally good showing. In past years, New Hampshire has taken MIT lightly, running up scores like 11-3 and 15-0; they were permitted no such romp this year. Tech displayed equal skating ability: The Beavers were beaten by a combination of Dunning's amazing goaltending, missing the net on a few key shots, and momentary defensive lapses.

UNH first scored at 15:18 of the first period on a shot by defenseman Paul Canuso which bounced off the knee of Merrill, catching the MIT net from a sharp angle.

In the second period MIT suffered two on-one break netted UNH another point as Sam Merrill carried in and set up Bill Mayher. Midway in the second period, first-line sophomore Mayher tallied again on a three-on-two break, assisted by Littl and Nichols.

The scoring closed at 17:32 of the second period as a wild shot by defenseman Paul Canuso bounced off the knee of Merrill, catching the MIT net from a sharp angle.

Late in the third period MIT sustained two injuries: Captain John Rupert '62 was hit in the face; Tony Weikel '63 hurt his hand. Against Bowdoin, the engineers were clearly outclassed, Tech managed only six shots on the Bowdoin goalie to Bowdoin's 39 shots, eight of which paid off. With the exception of infrquent bursts of activity by MIT, the boys from Maine were in complete control of the game at nearly all times.

The game was in most respects similar to Bowdoin's 9-2 trouncing of MIT last year. At 2:17 of the first period, Ron Famiglietti netted a slap-shot from the blue line, and MIT never really got started.

Bowdoin's first line of New Stowell, Ken Bacon, and Spence Greson accounted for three goals (one apiece); Lenly Johnson nailed two more. Def Harken scored one; outstanding defenseman Don Joly, who was impervious to MIT forwards, picked up a goal on a hard, low blue line shot.

MIT spent a good part of its time killing seven penalties, as the referees called a fanatical close game. Bowdoin men sat out three equally curious infractions.

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BOX SCORES

MIT .... 0 0 0 -0
Bowdoin .... 2 3 3 -8
UNH ........ 2 2 0 -4

First Period: Goals: Nichols (Littel) 15:18; Mayher (Merrill) 18:00.

Second Period: Goals: Mayher (Littel, Nichols) 12:53; Canuso (Merrill) 17:32. Penalties: UNH: Merrill (Offensive Zone Checking) 6:00; MIT: McMillan (Cross Checking) 9:00.

Third Period: Penalties: UNH: Littel (Slashing) 5:35; Goaltender's saves: O'Brien (MIT) 13 10 33; Dunning (UNH) 9 13 27.

M.I.T. .... 0 0 0 -0
Bowdoin .... 2 3 3 -8

First Period: Goals: Famiglietti (unassisted) 2:17; Stowell (Greson) 5:49. Penalties: MIT: McMillan (elbowing) 7:29; Stowell (interference) 9:04; Denny (holding) 15:36. UNH: Harken (hooking) 15:34.

Second Period: Goals: Harken (Tarbell) 13:31; Johnson (Bisset) 12:36; Stowell (cross checking) 8:17; MIT: McMillan (hooking) 12:27; Stowell (charging) 14:36.

Third Period: Goals: Johnson (Bisset) 3:01; Greson (Stowell) 7:42; Bacon (Greson, Stowell) 12:36; Johnson (Bissett) 13:31; Penalties: Bowdoin: Stowell (cross checking) 8:17; MIT: McMillan (hooking) 12:36; Stowell (charging) 14:36.

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Cagers Top Bates, Bowdoin; Lose To Harvard 62-54

By J. H. Lewis '64

In MIT varsity basketball action last week, the hoopsters went two games and dropped one. Tech, leaving for the Christmas break with a record of 5-7, dropped Bates away on Tuesday by 61-47, and, in some action, defeated Bowdoin Thursday 65-56 and lost to Harvard 62-54.

The Bates game was played without the services of Captains and high-scorers Dave Koch and other, however. Two 6'5" sophomores in and Game 13: Larry Burnses and Jack Menter, who scored 7

rebounded well. Jeff Paars '63 (13), Chuck Gamble '62 (9), and Tom Burns '62 (9) also had fine games as Tech was never in danger after the opening minutes. A game can now serve as an indicator for the season, since Bates entered Tech last year with nearly identical personnel.

The Bates boys fought back Thursday at Rockwell Cage. Bowdoin, sparked by center Eddie Callahan, who threw in 12 of his 17 points, played Tech to a first half stand-off as they went into the locker room opening a 20-29 margin. Tech was kept in contention by the great efforts of Bill Eggleston, who had 14 of the 29 first half points. Coach Barry, in the usual routine, was concerned at the game's outcome, changed to a man-for-man defense shortly before halftime.

In the second half Tech played fine ball. Dave Koch, still recovering from an ankle injury, hit 9 points and Terry Dryden 11. Tech still trailed at 52-49 with less than 3 minutes left. At point Gamble hit 2 long sets and Koch a drive to take the lead. Gamble then led the game with 3 foul shots in the closing moments.

On Saturday night some 1100 partisan fans jammed Rockwell Cage as the largest crowd ever to watch an MIT athletic event overflowed all around the dinning room. The engravers were playing Harvard, who considered a definite threat in the Ivy.

Tech's tough zone defense held the Harvard "shuffle" down to a slow tempo throughout the game. Harvard called upon their speed and rebounded very effectively. The old guard of Harvard, however, used determination, skill and experience to turn back the younger Tech. The Mid-Eastern conference may put Tech and Harvard on the map next year.

Harvard's Frost outlasted MIT 52-46. In a game of little scoring, both teams played Tech to a first half stand-off as they went into the locker room opening a 20-29 margin. Tech was kept in contention by the great efforts of Bill Eggleston, who had 14 of the 29 first half points. Coach Barry, in the usual routine, was concerned at the game's outcome, changed to a man-for-man defense shortly before halftime.

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