LES-1 fails to separate
Satellite misses orbital

By Jeff Heece

Lincoln Lab's LES-1, an experimental solid state satellite, was launched into orbit Friday, February 21, via the UAP Titan III. Although designed to be ejected from the inert 1070 pound payload, LES-1 failed to separate and now remains in a 1500 mile circular orbit. Originally the LES-1 was to be spun-up to 180 rpm and placed into an eccentric orbit (apogee 10,000 miles; perigee 1,500 miles) by propellant rockets supplying 1400 pounds of thrust for 15 seconds.

Novel ideas embodied in the LES-1 included:
1) an all-solid-state communications transmitter
2) an earth-sensing and antenna-switching system
3) magnetic system for spin-axis orientation control

Principle Experiments
The reliable all-solid-state transmitters, despite the fact that at the present they do not have as high a power output or as high an efficiency as conventional transmitters, are considered potentially competitive as seen by the rapid rate of improvement within the last year. Transmitting at frequencies around 8000 megacycles per second, the "Chair," the LES-1 has an output of 61 watts. Limited radio power necessitates an efficient, defined radio-technique, not the experimental, but a stabilized orientation system that permits a stabilized orientation of the satellite. However, the LES-1 was exhausted in its initial 1070 pound payload, at the Lincoln Laboratory is shown above. The LES-1 was launched by a Titan A III last Thursday, but failed to separate from its launch vehicle.
Byrn... (Continued from Page 1)

Center Committee for activities’... the publicity center, the game room.
(11) 4. Establish informal understand-... from the commercial facilities — the food serv-... to insure student input into their daily operations and services.

Of course, it is essential that the Center Committee not focus so narrowly on the problems of the Center that other responsibilities... subcommittee, discussion of campus-wide problems and in-... student policy — are ignored.

The above issues will probably... the comment or attitude: ... the comment or attitude: “... which reveals itself in the Lewis Report, the Tech Report, and more re-... the comment or attitude: “... which reveals itself in the Lewis Report, the Tech Report, and more re-

Jones... (Continued from Page 1)

philosophy of the plan, the new freshmen council, the activities council, and the student center council will be areas of interest and evaluation. In addition to their other functions, groups such as the ADB, a committee of student trustees, and six others have helped to new activities but which in recent years has degenerated significantly... much work yet to be done by us before we can have another conference as successful as “The... the conference. I am the only candidate who was a voting member of the Institute Committee on this year’s Junior Prom Committee. I receiv... the conference. I am the only candidate who was a voting member of the Institute Committee on this year’s Junior Prom Committee. I receiv-

In an era where the frontiers of intellectual endeavor demand constant investigation, imagination must be the crus... the research laboratories at the National Security Agency exemplify that rare activity where imagination and a look at the possibilities of tomorrow are the accepted philosophy. A glance inside these modern, well equipped labora-

MAJOR COMMUNICATIONS SYSTEMS DEVELOP-

ment — Design of new antennas, transmitters, receivers and terminal equipment. Constructing preliminary and basic engineering models to demonstrate the feasibility of using new communications concepts, techniques and cir-... the design of a working prototype or field test model.

COMPONENT MINIATURIZATION STUDIES — Practical attempts, through basic design and analysis, to reduce the size yet improve the capability of communications and electronic data processing systems.

SYSTEMS SIMULATION STUDIES — Utilization of computer models digital and analog to evaluate feasibility of engineering ideas and innovations.

MATHEMATICAL INVESTIGATIONS — Exploring the phenomena of the transmission of information, as it occurs in the design of secure communications systems: as well as in the development of new techniques.

ENVIRONMENTAL TESTING — Proving the capabilities of components and systems by simulating atmospheric extremes. These tests are conducted with the latest equip-

The Washington Post.....

Perrit... (Continued from Page 1)

the UAP takes office, I pledge you all my effort to have them re-instated.

It remains for us to demon-... and to demonstrate to the MIT community that we are capable of managing the Student Center re-... to organize, develop and lead the Men’s Haven, the Black Students Committee, the Hockey, the Women’s Sports Committee, the Judo Club and the Irish Society.

Or better coordination of social events it is time to set up a sub-committee of Inscomm which will help with the organization, planning, legal problems and publicity.

There is scheduled for next year an intercollegiate conference. The successful completion of social events it is time to set up a sub-committee of Inscomm which will help with the organization, planning, legal problems and publicity.

It is my hope and faith that... philosophy of the plan, the new freshmen council, the activities council, and the student center council will be areas of interest and evaluation. In addition to their other functions, groups such as the ADB, a committee of student trustees, and six others have helped to new activities but which in recent years has degenerated significantly.

The right kind of leadership can transform student government into something which can benefit each student. Otherwise, there is little justification of the time and money invested. Only experience and determination can ensure that kind of leadership.

The above issues will probably come to light, but wherever and whenever the Center falls short, student government to a more favorable vehicle that will return student interest; the Council would then auto-... the comment or attitude: “... which reveals itself in the Lewis Report, the Tech Report, and more re-

I... (Continued from Page 1)

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The Washington Post...
Class of '65
Cash Peacock

In September, 1961, two fresh pulld a suicide from the Charles River. Ever since, the class of '65 has acted insidiously in class activities, athletics, and student government. I have made every effort to do my part for Tech and '65. '65 has concentrated primarily in swimming. It included award for Tech and '65. This year I talked to D. E. Newber and Fred Lenneth, President and Secretary of the Alumni Association, about many of the problems and responsibilities that their group face. These discussions and others with Harry Bone and Ken Brock in the fund-raising office have made me aware of the deeds that some of us at alumni must perform.

I am especially interested in Mr. Esley's newly-formed Committee on Student-Alumni Relations and I am more than willing to plan reunions, organize fund drives, and to continue on this year's Commencement Committee.

This year has afforded me many experiences which I hope will help me in doing a good job for the class.

Bill Samuels

Over the past year I talked to D. E. Newber and Fred Lenneth, President and Secretary of the Alumni Association, about many of the problems and responsibilities that their group face. These discussions and others with Harry Bone and Ken Brock in the fund-raising office have made me aware of the deeds that some of us at alumni must perform.

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Class of '66
Don Schwanz

The recognition of the class structure offers a good opportunity for improvement and expansion of the responsibilities undertaken by your class officers. However, the executive committee alone will not have the time to handle all areas really well. The solution is a good committees system with committees working on things such as concerts, graduation, etc. This will get more interested people working for the class, and also help develop a natural feedback system between officers and the class. The result will be better concerts, a better senior weekend and generally an improved effectiveness of your class officers.

Ken Browning

The senior class president must be a man not only with ideas for a program but also with experience in executing a program. I have served at all levels in a wide range of student activities and have acquired familiarity with handling the problems faced by a class president in his governmental, social, administrative and social endeavors.

Just as important as competence and experience, however, is responsiveness to student opinion. I have in the past and will continue in the future to do my best to speak and act in accordance with the wishes of my classmates.

Terry Vander Werf

The President must be versatile and omniscient, one who can cope with new problems. He must be able to effectively represent his class on the campus. My activities, which include Finance Board, Conference Committee, IFC, and PCs, have given me a unique understanding of problems and opportunities facing our class and the whole student body. I am prepared to share with you the experiences and knowledge I have acquired, and respectfully seek your support in this election so that I may provide the effective, dynamic leadership our class will need this year and next.

Class of '67
George Piccalig

In my campaign statement last year I emphasized the need for class communication. This year that emphasis was vindicated by the outstanding job made on Field Day. Official written communication was not in keeping with our plan to keep '68 in the dark—instead we used an extensive “grapevine.” The results are now history. No other class has succeeded in destroying its opponents’ project, nor has any class turned out in strength as we did — evidence of what this class can do when properly coordinated.

The class of '67 is one of the few to be in the black at this time. With our upcoming reunion and continued class unity, we plan the most successful PJ ever. This year has been a most successful year, with greater involvement of class members. The unity of our class is unparalleled in MIT history. With your support we can continue to achieve.

Steve Douglass

Junior Prez gives the Class of 1967 the opportunity to put on an enjoyable weekend at a reasonable price. I have had experience on the various facets of J.P. and as President would be willing to put in every bit of time necessary to make J.P. a reality.

In addition, the President’s seat on Incomm is the only official voice of the class in student gov- ernment at the Institute level. As President I would keep close touch with your opinions through polls and personal contact, and would simply, it would keep you regularly informed of Incomm proceedings.

Jerry Tomtnak

This is not an ad, or an editor- il. This is just me, Jerry Tomtnak, asking your vote on the basis of what I have done as a preview to what I can do for the future. I stand and make full use of Student Council and the new government.

My experience as chairman of four committees, member of Sec- retariat, and, important to this election, secretary of Spring Weekend Committee enabila plans, not promises, for a fine JP and new administration.

I have already reserved ballrooms, saving you money, practiced gov- ernment with many people. I now ask your vote to continue.

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Interviews March 4, 5

IBM
The campaign: a serious choice

The Tech has not yet commented on the UAP campaign; however, lest this be construed as indicating lack of interest in the outcome of their efforts and in the welfare of the students of the MIT community. It is inconceivable that such reflections go unheeded.

There will be real issues in the present election, one of which The Tech will comment next week. The qualified candidates have a real working knowledge of these issues. For example: the overriding role of Inscomm, fiscal responsibility and a practical approach to their ability to present clearly to the student body their opinions of the real, day-to-day aspect of these issues and their meaning for the average student.

We hope from the outstanding UAP race in several years, and we strongly urge the undergraduates to consider the differences carefully and seriously. They, after all, will be the ones benefited by the choice.

Quid pro prosum?

While it is foolish to completely ignore the grading system, it might be well to point out some of the misconceptions about that great abberation, the cum. The institute, the cum rating is only hiding, not helping. That misinterpretation of the system, and that rigid concept, is the real reason why the scholarship which it is supposed to represent.

The difference of one grade in a ten-hour course taken during a normal term represents a cum difference of .2. The difference of several grades might reach half a point. This may represent the difference in opinion of an instructor or two; it may result not being initiated, in parents being upset, in personal despair.

An individual student knows how much he has learned. But he is under pressure to convince others. Therefore, either the Institute is hard to convince, but in fact this is not true.

Conference with any Administration will immediately demonstrate the effort made to insure each student's success. It is paradoxically, much of the pressure comes from the people or groups which claim personal concern. Parents who see only a two-place figure worry about their son's relative standing; fraternities, with an eye both to national requirements and to the ignorance of the parents, earnestly insist on computing the even meaningless numbers.

First things come first. Setting a goal of 3.0 will not help someone not motivated to seek it. To set goals does not mean that motivation toward the higher goal is unnecessary. This attitude is not exemplary, but it is none the less. The search for cum and its attendant methods to get it, are useless unless first this attitude is helped.

Certainly it would be nice to forget cum and concentrate on scholarship; but no one seems to trust the maturity of the MIT men to do this without the added inducement of cum. Suppose, for example, that living group cum were dropped; would this result in poor work? Of course, the cum should be dropped; if so, there is a real problem of scholastic maturity which the cum is only hiding, not helping.

The problem of weeding out the stupid does not exist at MIT. The real problem is one of adjusting. The students achieve "group adjustment" by a weed-out process while weeding the legging. It is the duty, therefore, of all members of the community to understand the system, to see to it that the students understand the cum; and to act, unmindful of pressures from those who do not understand, to improve the scholarship of every individual.

Verbum Sapienti...

The freshmenn class officers should be aware that it is unsafe to make commitments in print, as in class newsletters, when the matters in question are far from certain. Retractions are at best embarrassing.
Four try for sophomore class president

Class of '68

Ken Morse

Believe it or not, after only one term in office, I will do part of my campaigning on the basis of my past record. I was Chairman of the Freshman Council which broke several records in less than a term: we got more frosh to Field Day than ever before, we had the best first term field hockey program the Institute has ever seen, and we sold more beaver pins than any other previous class, getting us out of debt.

I've had experience—from Field Day activities to the fine working relationship I have with the Deans, faculty, and my classmates. Enthusiastic response to the second term council will give us even more strength.

I feel that, on the whole, I've done a good job so far, and that the programs for the future should be run by the men who started them. The only political promise I'll make is that, if I'm elected, I will ask for lots of your help to try to break more records.

Jeff Stokes

I have always respected the individualism and originality of Techmen. Like the Athenians of Pericles they are always coming up with something new. I respect upperclassmen also. So by no means is this initiative with respect to the class of '68 and I feel I can discharge them effectively. By my candidacy, I pledge myself to make the necessary sacrifices and work for the betterment of the class of '68.

Bruce Anderson

The offer of sophomore class presidency is very ill defined. It is more a position of opportunity than a job laden with duties. The traditional tasks are organizing for Field Day and representing the class on Institute Committees: the spirited, competent president will find far more to do, however, in the areas concerning the fiscal, academic, and social aspects of the class.

I have given much serious thought to these responsibilities, and I feel I can discharge them effectively. By my candidacy, I pledge myself to make the necessary sacrifices and to work for the betterment of the class of '68.

Roy Folk

Student government, at any level is a business, and I feel that my leadership ability can make the class of '68 our level-headed management of the Institute and affairs of the class.

I have gained invaluable experience serving on the Freshman Council as chairman of Speech, and I feel that I can contribute much through my work on Junior Finance and Field Day.

I should like to work for better communication between all interested individuals of the class and their government and more participation by these individuals in class activities.

For this, I need your support on March 2.

3M company gives $4,000 chem. grant

Four thousand dollars will be granted to MIT by the 3M Company of St. Paul, Minnesota for a technical fellowship in chemistry. The grant is part of the annual aid-to-education program sponsored by the company, formerly known as Minnesota Mining and Manufacturing, Inc.

The company also announced that it will give $40,000 in cash during the 1966-67 academic year to more than 50 schools in 24 states for scholarships, fellowships, grants-in-aid, and other special programs.

Junior gets patent

Patent 3,386,807 was awarded to MIT junior Marion Wood for an educational device for solving problems in syllogistic logic. According to the New York Times, Wood won a prize at the 1061 Westchester, New York, science fair with his teaching machine and filed for the patent a year later.

Wood has been high on the dean's list and is on the varsity lacrosse and hockey teams.

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University of Minnesota
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NEW lodge with ski rentals, cafeteria
NEW ski school with expert teachers, under the direction of Hans Jaeger
NEW winter in general; new snow, new equipment, new interest, new enthusiasm, pleasure, thrills
Lincoln Lab's LES-1 attempted to test new experimental equipment

(Continued from Page 1)

The LES-1 is conceptually different, using no elaborate stabilization techniques. Your options assume the direction from the parent nucleus, the LES-1, is set pointing against an axis of 180 rpm. Interior weight is counteracted using no elaborate stabilizing methods. During the balance due to the intense sunlight, the magnetic field is generated. Interconnection reflect sunlight. Switchless then electromagnetic coils are connected toward the earth.

Inclined:

1000 bits per second. The digital data are then sequentially at a bit-rate of 0.003 watts' per one one-thousandth the power of the transponder (transmitter) and a 3-watt converter (receiver) and a 3-watt converter. Suitable voltages are then obtained by a 20 watt generator, which powers the telemetry and receiver) and a 3-watt convert. Suitable voltages are then obtained by a 20 watt generator, which powers the telemetry equipment.

The telemetry system can assemble data from as many as 80 instruments, convert it from analog to digital form, and transmit sequentially at a bit-rate of 100 bits per second. The digital portion is unique in that it uses one thousandth of the power of the best commercial devices: 0.0005 watts per "Talk-up." Information is then transmitted through four multichannel antennae to the antennae located on the upper half of the spacecraft. This insures a steady signal at the 300-bit-per-second ground stations.

The X-band transponder receives 10000 mexes from one frequency to another, and retransmits the command back to the spacecraft. It also serves as a beacon of 1 million watts, for tracking and tracking. This may be turned off by either a ground command or a set-two-year timer.

The LES-1 is the first of a series of Titan flight tests to be made during 1962-1966 for developing a number of devices and techniques which may be used in future military communication satellites and satellite communication systems.

TSE seeks student for public relations

Technologically, Student Enterprises, actively pursuing a policy of planned growth, is seeking a freshman or sophomore to be the MIT public relations representative for United Air Lines. When asked to comment on this position, Leon Lissman, President, observed, "This is the first of a series of positions within TSE where students of high ability will be selected as representatives of leading corporations. The positions offer opportunity to work at relatively high levels in these companies and also provide substantial financial rewards. We hope all interested students will contact Mr. Jacoby at extension 891 immediately."

Potential delegates sought for student conferences

Delegates are needed to attend five conferences on problems of United States foreign and domestic policy. The conferences will be held at various colleges and universities through the country during March 31 and April 3. The traveling expenses of the delegate will be paid.

The subject of the first conference will be "Latin America: A View of Progress!" which will convene at Brown & Pembroke, March 31. A second group will assemble at Wake Forest (North Carolina) March 31 to discuss "The Emerging World of the American Negro." At the U.S. Air Force Academy, "The Congress and America's Future" will be discussed between March 31 and April 3. A current crisis will be another in the conference entitled "Vietnam," scheduled for April 3 at Princeton, Illinois. And finally, "Problems of United States Foreign Policy in Africa and the Middle East" will wind up the series at the U.S. Naval Academy, from April 21-25.

Anyone interested in participating should sign up at Litchfield Leagues (room 06-95) by Thursday, February 18.

59 undergrads receive degrees

MIT awarded 300 degrees to 288 graduate and undergraduate students on February 8; seventeen students received two degrees. Degrees awarded include two Bachelors of Architecture, 27 Bachelors of Science, 14 Masters of Science, 14 Engineering, 20 Doctors of Science and 58 Doctors of Medicine. Of the 451, 53, 75 & 3 PhD degrees were awarded to women.

Roguests of February degrees may accept them at the June commencement, or two ceremonies if they so choose.

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Whether your career interests lie in basic or applied research, design, test, manufacturing or administration, there's a spot where your talents are needed at Boeing. Engineers, mathematicians and scientists at Boeing work in small groups, so initiative and ability get top expression. Boeing encourages participation in the company-paid Graduate Study Program at leading colleges and universities near company installations.

We're looking forward to meeting engineering, mathematicians and science seniors and graduate students during our visit to your campus. Make an appointment now at your placement office.

(1) Boeing 727, America's first short-range jetliner. (2) Vertol-600 twin-rotor helicopter for the nation's first experimental commercial jet transport. (3) NASA's Saturn V booster will power orbital and deep space flight. (4) Model of large space nuclear propulsion; vehicles for NASA. (5) Boeing Vertol 127 transport helicopter shown with Boeing 707 jetliner. 

Boeing Douglas Aircraft Company Employee
Libraries to change cataloguing system to Library of Congress classification

By Al Green

MIT libraries have decided to change their catalogue system in order to adhere to the Library of Congress (LC) author and subject headings.

This change is part of the standardization policy started in 1965 by the adoption of the LC classification. It means that the authorized names and titles and subject entries under which books are catalogued will now follow the LC system.

Effective January 1, 1965, two catalogues were established in each library. Catalogue cards for all books acquired since the first of the year will be filed in the new catalogue according to Library of Congress classification rules. In addition, the library hopes to retire cards for all books acquired since 1963 (that is, all books with the LC classification) in the new catalogue as soon as funds become available.

Author cards for the remainder of the LC classification, those titles classified under the Dewey Decimal System, will be revised and retired under LC main entry headings over a period of several years. The library will have to spend approximately $490,000 necessary to facilitate the change.

The ultimate goal of the project is to have author cards for all books in the MIT collection revised according to the LC system and filed in the new catalogue. In addition, the new catalogues will constitute author entries for all books with an LC classification. To make this possible, the subject entry for books with the Dewey classification will be filed separately in the second catalogue.

It was emphasized that, during the period of changeover to LC main entries and subjects, library users will have to consult both catalogues to locate all the material in the library collection on the same subject.

Although the change creates a temporary inconvenience for the reader, library officials said that it will eventually facilitate library use. The new system will be a permanent standard which is established and modified. This means that books received hereafter will be catalogued under professional guidelines and are available to readers.

Annual Military Ball scheduled March 6

MIT's annual Military Ball, this term's formal campus event, will be held in the Boston dining hall on Saturday, March 6, from eight to twelve.

Music will be provided by the VIP Combo of the Eighth Air Force Band. Intermission entertainment will feature the MIT Lography Club and the concert, the MIT Military Ball Queen, will be announced. The ball will end at midnight.

Tickets are now available from various members of the military societies or at the headquarters of the ROTC departments. The price this year includes refreshments and non alcoholic wines. The price is $2.50 per couple.

Madnick

(Continued from Page 2)

The need to have men and women in the military, he said, does exist. As one of the training subjects stated: "Something should be done to get students to enter into military studies, not stay locked in their rooms. I don't know what can be done. They're worried too, you see.

President Schriroter worked it: "In short, we must encourage students on the part of the faculty as well as students in cooperation with the administration. We don't have money and we don't have a lot of money, but we will work hard for the Queen Contest. In addition to the laurels awarded the queen, each princess will receive a rennet from the sponsoring ROTC departments. Tickets are available from students of the ROTC departments. The price this year includes refreshments and non alcoholic wines. The price is $2.50 per couple.

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BY AL GREEN

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FEBRUARY 11, 1965

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YALE RUSSIAN CHORUS

"Admirable musical polish."—New York Times

"Superb musicianship."—Christian Science Monitor

"Wonderful expression..."—Christin Science Monitor

"Fabulous and enlivened performances"...the sinister bassos who drone like deep organ tones... wild, primordial forces."—New York Times

"Everywhere I went throughout Russia, I heard about the Chorus...A wonderful expression of America."—Eleanor Hepzibath, Paris

FRIDAY and SATURDAY

FEBRUARY 19 and 20, 1965

8:30 P.M.

SANDERS THEATRE

HARVARD UNIVERSITY

SEATS $1, $1.50, $2

Relax and Divert

CAMPUS CUE

590 Commonwealth Ave. (Opposite B. U. Towers)
Tech Show '65, "You Gotta Have Art," to be presented on March 5, 6 and 7, on the Kresge Auditorium stage. The first part of the Keene Auditorium is now in reserve. The seventeen shows held in December and January unwarmed and included a show of unknown humorous and serious efforts to find old faces and new, to the Tech Show audiences.

This year's original musical comedy is written and directed by Jeff Mottron, a second year's student. The show is entirely instrumental in the activities of both the cast and orchestra. The show is to be accompanied by a minstrel show designed to raise money for athletics. From this result, the Tech Show decided that this was the final form for an undergraduate production. A new custom of the Show was the annual performance at South College, made most enjoyable since the cast was all male.

The Tech Show is sponsored by the Dramashop and Tech Show, being in the spring after the Tech Show, one of the major events. The show is designed to bring students and the Tech Community together.

The concert will take place in the Kresge Auditorium and will be accompanied by "North to Alaska," John Wayne; Feb. 19, 8:00 pm. Also "Mission" 50c. Also "Girl With a Pearl Earring," 6:30 pm, in Room 26-100. Also "Girl With a Pearl Earring," 9:30 pm. Also "Girl With a Pearl Earring," 2:00 and 8:00 pm.

Concert Show is Wednesday, February 26, in the Kresge Auditorium. Also "Girl With a Pearl Earring," 6:30 pm; Friday, February 26. Also "Girl With a Pearl Earring," 9:30 pm. Also "Girl With a Pearl Earring," 2:00 and 8:00 pm.

Concert Band to play Saturday at Kresge.

The M.I.T. Concert Band conducted by John Corley, will play their first concert of the term, Saturday, February 26, at 8:00 pm. The program will include Fritz Reiner's "Symphony," Beethoven's "Symphony," and other similar works. The concert will be performed by the Dance Theatre of Boston, under the direction of John Zorn, in the Kresge Auditorium.

Also featured will be "Concert Band," by William J. Maloof and "Prelude and Happy Dance," by Andrew Kacsmar, a former M.I.T. student.

The concert will take place in Kresge Auditorium and is free to members of the Tech Community. Tickets can be obtained in the lobby of Building 10.
Three Irish one-acters at Little Theatre

By Norm Wagener

Friday and Saturday evenings, February 12th and 13th, the Little Theatre played host to Three One-Act Plays of the Irish Arts Festival.

The productions included a musical, a ballet, a play, a dance, a flute, a drumming, and a luteist, along with colorful costumes and lighting.

The highly theatrical first play, "A Full Moon in March," by W. B. Yeats (the poet, the brother of the playwright), is a monologue and dance. Two attendants at the theater also announce a boisterous laugh, and the final scene, "The Long Famine," is also a monologue.

In the opening scene, where With Fleming masterpieces, however, the perfect crime, a crime of almost perfect intrigue, is not the object of the unfolding scheme of the play. What concerns us is the crime itself. The talk, interspersed with playful alliteration, and perhaps some poetry, is quite the same in the same voices.

The last of the three plays, "The Voice of Shem," is presented by the same interpreter of the medium, who is a medium, we suspect for the plot. The plot deals with an old and favorite theme—insanity—but from a new angle. The play begins with a monologue, "The Long Famine," and the final scene, "The Long Famine," is also a monologue.

In fact, the movie begins by mystifying us in several pleasurable ways. Billy cuts out printed letters from the newspaper, and Myra pushes back a painting, to look through a hole in the wall. These are not so proceed. They turn out to be integral details of the complex and original kidnapping scheme. The opening scenes lead us to expect a long and elaborate chain of symbols, resembling "Fleming's Wake," but we find that the mysterious holes and letters and glasses are merely foreshadowings of the unfolding intrigue.

"The Long Famine" tells us the story of a perfect crime, a crime of almost perfect intrigue. Unlike the Fleming masterpieces, however, the crime itself is not the object of the film. What concerns us is the character of the woman and the nature of her relationship with her husband. In the opening scenes, where they circle around the room eyeing each other across the bed and making allusions to "Artur," we see in Billy's eyes the agony of the estranged lover and lover. He is thinking not "Her love is a beast, I am my wife," as much as he ponderers a more forbidden sentiment: "She loved in going mad; slowly, irreversibly sliding out of my arms."

When she demands, "Say you love me, Billy, won't you?" he replies, "She's a beast, and I love her."

He knows that to deviate from her will let a little bit of great and needful pain, hardly any real action—just five middle-aged Irish washerwomen sitting around washing and talking too fast, all at the same pitch. Of these, two of them were a chorus to the other two, one of the two recalling her big romance with her historic lover. Both scenes were spread with a hearty sentimentality which, like a nopycic cloud, surrounded this woman and her forlorned lover, Ireland, the past, the glorious myths, etc., etc.

If this criticism is unfair, it is because "I could not understand what they were saying, since they wouldn't pause."

The chorus kept repeating "Home, Home," and the First Woman continued talking right back, with all that brogue, several clichés, heavy alliteration, and perhaps some poetry. She was quite animat, but the chorus was disintegrated. Now I ask you, how can three women talk together at the same time and in the same voice?
Looking Back

Student Center anticipated in 1955

By Jeff Trimmer

The increasing shortage of space at the Institute was the subject of a meeting held last Monday between representatives of the student body and of the administration. Discussion at the meeting centered around plans to provide temporary additional space in Walker Memorial. It was pointed out that there would be merely interim measures, to last a few years until the Student Union Building is completed. No interim plans were established, although many suggestions were forthcoming.

25 years ago

(Following a bad blizzard, The Tech ran the following story, Ed.)

With most of the students and professors left snow-bound at home by the 80-mile blizzard, the building is completed. No definite time was set for the opening.

1. I've been weighing the possibilities of becoming a perpetual student.
   Last week you said you were thinking of the merits of minsk farming.

2. With graduation drawing near I found my mind on that old fire extinguisher pump filled with gasoline.
   Yesterday the snow fights continued when the rivalry between the new and old dormitories came to a head. Among those unadorned professors were Norbert Wiener of the Mathematics Department and Lourdes Al-
   um of the Chemistry department. Also one professor came to school on skis.

3. I must admit the thought did enter my mind.
   Has the thought ever entered your mind that you might get a job and make a career for yourself?

4. What about my thirst for knowledge?
   Just because you work doesn't mean you have to stop learning.

5. You mean earn while learning?
   Right. And you can do it at Equitable. They'll pay 100% of your tuition toward your degree. At the same time, the work is challenging, the pay is good, and I hope you move up fast.

Make an appointment through your Placement Office to see Equitable's employment representative on
February 18 or write to Eq'l Div, Equitable's employment representative.

Manpower Development Division for further information.

The EQUITABLE Life Assurance Society of the United States

Home Office: 1200 Ave. of the Americas, New York, N.Y. 10036

An Equal Opportunity Employer

MIT Choral Society to sing at new War Memorial Auditorium

The new Boston War Memorial Auditorium will lack of its new season with a concert of choral music next Wednesday evening.

The program will include the M.I.T. Choral Society under the direction of Klaus Lippman. The combined choirs will do new work by Daniel Planish commissioned especially for the occasion.

a particular place for particular skiers...

NEW! All lifts now have mid-stations for your skiing pleasure.
A Double Chair Lift rising 1450 ft., a Single Chair Lift rising 2000 ft. and a T-Bar, serving a wide network of trails from beginner to expert.

NOTE: More trails and facilities have been added since the above picture was made. (1) The "Antelope," with varying grades, dozen of turns, 255 miles long, 2000 drop; (2) The "Grackle" trail cut off from the top of the Double Chair; and the "Parwinick." Also a colorful nursery building, and for older children, the popular Chipmunk Club with its own nursery branch and occasional races and prizes for almost all.

There's no better skiing anywhere in the East!

MAD RIVER GLEN
Ski Area
WAITSFIELD - VERMONT

GOT A MAN'S JOB TO DO?

Get it done right. Get MAN-POWER... the new power-packed aerial deodorant! MAN-POWER's got the stepped-up pene-
tration; 24-hour staying power a man needs. Goes on fast... never sticky... dries in seconds. Try it! 1.00

BY THE MAKERS OF OLD SPICE | SHULTON
New ROTC program
AF offers two-year plan

The Department of Air Science has announced a new Air Force ROTC program, which allows students with two academic years remaining, beginning with September 1965, to receive an award of an undergraduate or graduate scholarship when they complete the requirements for a commission in the United States Air Force.

To be eligible for the program, next September, male students must be within the age limit to complete the Air Force Officer Qualification course in two years, and be in the upper two-thirds of their class. They must be in good academic standing, and show the officer commissioning physical examination and background requirements. Those interested should contact the Department of Air Science.

Boston Rotary Club announces foreign fellowships

The Boston Rotary announced recently that it will be offering international fellowships for the academic year 1966-67. These scholarships are on a one-experience paid year of study, however, in a foreign country. Further allowances are made for travel within the country of study, candidates must also be invited to local Rotary clubs.

The Rotary Club hopes in this way to serve as "ambassadors of goodwill" in a time of international unrest, as well as help promising scholars. There are presently 12 Rotary Fellowships from 19 countries who are already taking graduate work in 50 countries throughout the free world.

In order to qualify for a Rotary Fellowship, an applicant is required to be a male between the ages of 20 and 28, to be single, to be a citizen of the country of his permanent residence, to be in good standing in a college or university, and to have interest in world affairs, to have a college degree, and to be able to read, write, and speak the language of the country in which he is to study.

The fellowships are on a one-year paid basis for the academic year 1966-67, and are made available through a representative of Alpha Phi Omega. Paul Lindsay, of Lambda Chi Alpha, will oversee solicitations in the fraternity, he is a representative of Alpha Phi Omega.

APO, TCA and Red Cross join in annual drive

Alpha Phi Omega (APO) serves the Fraternity and the Technology Community Association (TCA) will be soliciting donations for the Red Cross blood drive to take place March 22 to 25.

Donations for the campus drive will be solicited from students beginning February 23.

Lucille Gay V7, of Baker House, will be organizing solicitations in the dormitories, he is in a representative of Alpha Phi Omega. Paul Lindsay, of Lambda Chi Alpha, will oversee solicitations in the fraternity on behalf of TCA. Together they hope to bring in 1700 pints of blood.

Last year's drive drew 1300 pints of blood, which represented a record high for the amount of blood accumulated at any single location on the Eastern seaboard during peace time. Gay and Lindsay have point out that prospective donors had to be turned away last year because of insufficient facilities and staff. However, this year's plans call for increased facilities and twice as many staff members, so that everyone who wishes to donate can be accommodated.

It is also significant to note that the drive will be conducted at a time when the Massachusetts blood supply is normally low. Thus the contribution from MIT will form a large percentage of the statewide supply of blood during a two week spring period.

Blood will be taken in room 4-342, formerly the Office of the Registrar. During solicitation week, there will be an information booth in Building 31. Parents' consent is needed for students under 21, unless they gave blood in last year's drive.

Comming: February 23 & 24, 1965

HUGHES announces campus interviews for Electronics Engineers and Physicists receiving B.S., M.S., or Ph.D. degrees.

Contact your Placement Office immediately to arrange an interview appointment.

Or write: Mr. Robert A. Martin
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Buy OLD SPICE NOW
Random poll on Vietnam situation completed by Harvard's Crimson

By Jeff Trimmer

Our neighbors up the river took a poll of various students and Radcliffe students the other day. The Harvard-Crimson undertook to call various students randomly in an effort to determine campus opinion on the Vietnam situation. In all, some 20 people were asked for opinions.

The poll revealed some surprising or some not-so-surprising results, depending on your point of view. Although 40 per cent of students favored U.S. withdrawal from Vietnam, some weren't so sure of anything. I don't know much about Vietnam," said a Radcliffe sophomore. "I thought was wrong. Isn't the Viet Cong Communist?" Another student added, "I just don't know; I'm not sure what we should do."

With all the attention of the nation focused on some recent student riots for free speech, coop- eration, etc., it was refreshing to read of one riot without political implications. The students of North Carolina Wesleyan College weren't too pleased with the food situation in their cafeteria and proceeded to protest with a strike. "I just don't know; I'm not sure what we should do."

February 20 marks the hundredth anniversary of the opening of classes at William Barton Rogers's new Institute. The 1961 Centennial celebrated incorporation of the Institute by charter, but shortly after that docu- ment was signed in 1861, the Civil War began, postponing MIT's beginning. It wasn't until February 20, 1865, that the first class was held.

First MIT classes 100 years ago: Institute began in one classroom

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Placement Bureau guides students

If from many companies across the nation will be interviewing prospective employees here during the next few months. Each year over 500 companies meet Tech students in this way.

In addition to helping place students in permanent positions, the Placement Bureau provides guidance in many other areas, including those of summer jobs and foreign opportunities.

Techniques of all levels may find aid at the Placement Bureau. For undergraduates seeking summer employment, the Bureau offers a comprehensive listing of opportunities throughout the country which regularly employ students on a summer basis, including in several overseas job programs. Graduating seniors have access to an extremely thorough library of graduate school catalogs from around the world, graduate fellowship information and permanent job opportunities. Those interested in either the Peace Corps or the military may also find guidance at the Placement Bureau.

Service to alumni is provided by the Alumni Placement Bureau, which operates expressly for serving MIT graduates.

The Placement Bureau is continually trying to keep the student body informed of all available opportunities. Notices concerning interviews with companies, job offerings across the country (including summer programs), graduate school and financial aid information, foreign opportunities, and Peace Corps and military announcements are sent periodically to all living faculty members.

Faculty members, department counselors and other office members are continually trying to keep the student body informed of all available opportunities. Those interested in either the Peace Corps or the military may also find guidance at the Placement Bureau.

Placement Bureau provides guidance in many other areas, including those of summer jobs and foreign opportunities.

By Karl Frederich

Tech riflemen triumphed over Brooklyn College, 1932-1366, in a no-doubt home match last Friday and took third place in an intercollegiate tournament held at the U.S. Coast Guard Academy in New London, Conn. on Saturday.

All firing was done on standard "American" targets.

Leading the attack on Brooklyn was Jim Dowdow, 63, who had an outstanding 292, followed by Dave Hamada, 72; Karl Frederich, 82; Andy Beeman, 72, 273; and Tom Hamada, 72, 273. In Saturday’s action, MIT entered three four-man teams in a field of 46 others. Our best score, an 1134, was turned in by Fredric, with Phil Rosenkranz, 72, 276; Tom Hamada, 72, 278; and Fred Hoopes, 72, 276; and a second team of Karl Frederich, 72, 281; Phil Rosenkranz, 72, 274; and Gordon Lo- ham, 72, 259.

Bowdoin tames Skaters 14-2

Record now 2-7; UMass next

By Gerry Banner

The MIT hockey team was hopelessly outmatched by a far superior Bowdoin team last Saturday 14-2 in losing to a seventh game of the season against two wins. The game at the Buckingham Meadow was the most frustrating game since the 15-0 loss to Amherst earlier in the year.

Bowdoin leads 11-0

The Bowdoin skaters took over from the opening faceoff and had scored six goals to none for Tech by the time the playing period ended. They added five more goals in the second period before Pete Catto got '66 scored on an assist from Loev wood 66 at 7:31. Steve Janes 66 scored the only Tech goal of the third period as it was assisted by Pete Catto, and Bowdoin was scoring its final three goals. Steve Wales scored the Bowdoin attack with four goals while teammates Bill Allen, Ben Sodier, and Pete Coope each contributed two.

Meadowsaver 26

Tech goalie Bob McDonald '66 played a much better game than his last two. The goalie had 38 saves, and several goals came on rebounds that should have been gathered up by the defense. Leger, the Bowdoin goalie, had a rather easy time in making only 13 saves during the three periods.

The game was scheduled for last Friday was postponed tentatively to February 22 because of inclement weather. Our best score will next see action tonight against UMass which has previously beat us.

On Deck:

Wednesday, February 11
Basketball (V) - Harvard, Home, 8:30 pm.
Wrestling (V) - Tufts, Away, 7 pm.
Field Hockey (V) - Wesleyan, Home, 4 pm.
Fencing (F) - Tufts, Away, 6 pm.
Swimming (F) - Wesleyan, Home, 3 pm.
Swimming (M) - Wesleyan, Home, 8 pm.
Thursday, February 12
Wrestling (M) - Boston College, Home, 4 pm.
Wrestling (V) - Boston College, Home, 7 pm.
BASKETBALL INDEX

Aeronautical Engineering
Applied Mechanics
Electrical Engineering
Engineering Mechanics
Industrial Engineering
Engineering Physics
Mechanical Engineering
Mechanical Engineering
Metallurgical Engineering
Engineering Science
Physics


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Mechanical Engineering
Mechanical Engineering
Metallurgical Engineering
Engineering Science
Physics


January 11, 1966

Tomorrow, February 18
Welding (F) - Boston College, Home, 4 pm.
Welding (M) - Boston College, Home, 7 pm.
Fencing (F) - Wesleyan, Home, 3 pm.
Fencing (M) - Wesleyan, Home, 4 pm.
Basketball (M) - Tufts, Away, 7 pm.
Basketball (V) - Tufts, Away, 9 pm.
Wrestling (F) - Wesleyan, Home, 3 pm.
Fencing (F) - Wesleyan, Home, 3 pm.
Fencing (M) - Wesleyan, Home, 4 pm.
Fencing (M) - Wesleyan, Home, 5 pm.
Fencing (F) - Wesleyan, Away, 4 pm.
Friday, February 19
Basketball (M) - Tufts, Away, 7 pm.
Basketball (V) - Tufts, Away, 9 pm.
Wrestling (F) - Wesleyan, Home, 3 pm.
Fencing (F) - Wesleyan, Home, 3 pm.
Fencing (M) - Wesleyan, Home, 4 pm.
Fencing (M) - Wesleyan, Home, 5 pm.
Fencing (F) - Wesleyan, Away, 4 pm.
Saturday, February 20
Basketball (V) - Tufts, Away, 7 pm.
Basketball (M) - Tufts, Away, 9 pm.
Wrestling (F) - Wesleyan, Home, 3 pm.
Fencing (F) - Wesleyan, Home, 3 pm.
Fencing (M) - Wesleyan, Home, 4 pm.
Fencing (M) - Wesleyan, Home, 5 pm.
Fencing (F) - Wesleyan, Away, 4 pm.
Sunday, February 21
Hockey (M) - Harvard, Home, 4 pm.
Hockey (V) - Harvard, Home, 7 pm.

The frosh wrestling team improved upon its fine record last Wednesday by defeating Amherst, 23-15. The frosh have faced all year long, Springfield College. The outcome was a 23-15 MIT loss, the worst defeat the frosh have suffered. The only winners for MIT were John Fish-tek in the 167 lb. class capped the final five points for Tech by pinning his man.

However, last Saturday the first-year matmen faced probably the strongest wrestling team they have faced all year, Spring-field College. The outcome was a 23-15 MIT loss, the worst defeat the frosh have suffered. The only winners for MIT were John Fish-

The freshman wrestling team was crushed by St. Paul’s. The five who played for Tech — Cy Thurl-tek, Jeff Trason, Terry Hamilton-Smith, Bill Carlson, and Bob Me-

Nevertheless, the rest of Tech’s freshman grapplers certainly have nothing to be ashamed of as each fought extremely well. Steve Bish-

Frosh sports

Wrestlers defeat Amherst 23-15

By John Kopelow

The froshman wrestling team improved upon its fine record last Wednesday by defeating Amherst, 23-15. The frosh were most suc-

out because of fouls trouble, things looked very bleak. But then the rest of the team caught fire. Led by the outstanding

But then the rest of the team caught fire. Led by the outstanding

Bratwurst with Sauerkraut
SANDWICH--KNACKWURST--
FAMOUS ROAST BEEF SPECIAL
BRATWURST with SAIJERKRAUT

ELSIE’S
ELSIE & HENRY BAUMANN
Noted for the best Sandwiches
in out or in take out.
FAMOUS ROAST BEEF SPECIAL
SANDWICH--KNACKWURST--BRATWURST with SAUERKRAUT
or POTATO SALAD
and die feinen Wurstwaren
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On-Campus Interviews
February 24 and 25

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ENGINEERING REPRESENTATIVES WILL BE ON CAMPUS TO GIVE SENIORS AND GRADUATES COMPLETE DETAILS ON ENGINEERING OPPORTUNITIES WITH THE PIONEER AND LEADING MANUFACTURER of VTOL AIRCRAFT

See your College Placement Office now for an appointment.

Wednesday, March 3
Overpowered by Springfield

Wrestlers lose twice, even record

By Dave Chasen

The MIT wrestlers dropped two

decisions last week to even their

season's record at 5-5-1. At Am-

herst Wednesday the team came

out on the short end of a 14-13

score. Saturday in the armory,

Springfield's brute strength was

too much for the Techmen as they

fell 3-2.

Amherst jumped off to an early

lead Wednesday by winning the

first three weight classes. Fres- 

co won a 6-3 decision over Lar-

gie Silverman '67. Thomas follow- 

ed with a 5-0 win over John

Reynolds '67. Amherst's lead

grew to 9-0 when Long outpointed

Chio Hullgren '66, 6-3.

Whitey Whitman '66 put MIT on

the scoreboard with a pin over

Soper in the 147 pound class.

When Whittier came back with an

evening pin, Whitman pinned him

on the scoreboard with a pin over

his opponent to make the score 14-10.

Dick Nygren '65 rode Am-

herst's Wales through most of

the match, but the Amherst

wrestler was strong enough to

fight off the pin. Nygren won the

decision but MIT fell short by a

point, losing 14-13.

In the armory Saturday, Spring-

field put too strong a show for

the Scarlet and Gray. They didn't

wrestle in the 123 pound class,

giving MIT 3 forfeit points.

Springfield then proceeded to run

up the score.

Sadorf won a 5-3 decision

over MIT's Tim Connolly '66. An-

derson followed by placing Chio

Hullgren at the 175 mark. Hull-

gren added three more points

to the Springfield score with a

pin over Larry Johnson '66 and

Ellie Tschetter's fall to give MIT

the score 14-10.

The unlimited match between

Nygren and Springfield's Neil

Stilphen '66 was scoreless for

seven minutes but Nygren escaped.

Stilphen came back with an es-

take-down to take the lead.

Nygren managed a take-down to

take the lead. Stilphen came back

with an escape and take-down in

the last 70 seconds but Nygren

escaped. The match ended in a

4-4 draw giving MIT its only

wrestling points of the afternoon.

NRSA downs Theta Chi in IM hockey tournament

By Jack Scopaci

Two goals in the first period

told the story in the biggest

upset of the week as NRSA

shocked favorite Theta Chi 3-1 in

IM hockey action Sunday night.

Theta Chi actually began the

scoring when Ralph Lamson's

'66 drove in one at 0:30 of the

first period. However the title of

the game turned when Walter

Reynolds '67, from the stick of

NRSA goalie Al Leslie who

wins over magnificently under

the Theta Chi barrage.

In another tight game Sunday

night Lambda Chi Alpha just

edged the surprise team of the

playoffs, Baker House 1-0. The

only goal of the game came at

the middle of the second period

from the stick of Lambda Chi's

Don Schum.

Great job Sigma Chi wins!

Two goals by Garret Grant '67

enabled Sigma Chi to eliminate

PI Lambda Chi from the play-

offs on Sunday night also. Grant's

goals came in the second and

third periods, respectively. Also

to be eliminated was Delta Uni-

versity as they were crushed 4-0

by Phi Gamma Delta. Don

Schwanz '66 had four goals and

two assists and Paul Trimner

'66 had three goals and one as-

sist to lead the FPhi assault.

Phi Kappa Theta wins Grad House

The only other team to be

eliminated this past week was the

perennially strong Grad House

team. Suffering from the loss of

their best wrestler to the new

MIT Community League, Grad

House still managed to finish

strong as it took three minutes

and twenty-one seconds of over-

time for Phi Kappa Theta to

knock them out of the race.

In other games last week NRSA

bounced PI Lambda Chi 3-1 on

Tuesday but came back to only

narrowly avenge by Zeta Beta

Tri 24. Theta Chi also had an

easy game as they shelled Phi

Kappa Theta 5-0. Phil Smith '65

was the big stick with five goals

while John Cressa contributed

three more.

In this games coming up this

week the winner of the Phi Gam-

ma Delta-Barton House game will

take on the winner of the Sigma

Chi/Phi Kappa Theta game on

Thursday night. On Saturday NRSA

will take on Lambda Chi Alpha.

These two teams fought a real

tough game during the regular

season which Lambda Chi Alpha

came out on top by 5-2.

NRSA 13, PI Lambda Chi 6

Phi Kappa Theta 3, Delta Upsilon 2

NRSA 2, Zeta Beta Tau 1

Theta Chi 3, PI Kappa Alpha 1

NRSA 4, Theta Chi

Lambda Chi Alpha 1, Baker House II

Sigma Chi 2, PI Lambda Chi

PI Gamma Delta 14, Delta Upsilon 6

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WEDNESDAY, FEBRUARY 17, 1965

Page 15
Ski Team finishes third
In Intermediate Easterns

By Bill Renter

Skiing counted the points of all 11 competitors last weekend. Yale took first place, followed by Cornell and MIT in second and third, respectively.

Swimmers top Trinity,
Exhibit good team depth

By Neil Gibson

The varsity men's swimming team placed fifth in its victory over Trinity College. The meet was held last Friday and Saturday.

Trackmen place fifth in
Intercollegiate Championships

By W. Thomas Compton

The trackmen placed fifth in the EISA Intercollegiate Championships. He ran eighth.

Cage Scoring Record Set

By James Robertson

Alex Wilson goes up for two of MIT's 101 points against JNPH. Jack Musa (12) and Bob Hardt (16) look on.

Trackmen finish in
Greater Boston meet

By John T. White

MIT's indoor track team finished fifth in the Greater Boston Collegiate Track and Field Championships held last Friday and Saturday at Harvard. Harvard was an easy first place winner as they rolled to their second straight championship.

Smeared by Harvard

By Alan Olsen

The MIT fencers had a busy schedule this past week, fighting four matches. They were defeated decisively by Harvard 29-8 and 21-3. The fencing team of Brooklyn College 14-5 when captain Bill Delonte '67 returned to the U. In the team's first match of the season, Bob Goeke '65 and Ken Morash '65, both of the Harvard fencing team, were never in doubt. Harvard won 15-0, 15-2 over Theta Chi 9, Phi Kappa Theta 0.

Fencing team wins two, loses two

By James Robertson

Al Stottflemyer '65 carries a Brooklyn College opponent of the Du Pont Athletic Center last Friday night. Stottflemyer was easily defeated in the preliminaries, taking two victories under the clock. MIT was upset in an unexpectedly close match 14-12.

Still without Bill Delonte, 5-4 with Kurtz and Seddon getting even. The boys then fed each other with two easy victories on Saturday against Brandeis 30-11. The 30-11 was again for the harvest's overall record in a row.

Harvard too strong

The victory was no match for Harvard. Harvard was down 3-2 and 4-1. Harvard won 15-10, 16-14 over MIT (V) 16 - Brandeis 13.

The same fate. Substitutes were given a chance to practice. The boys ran the other part score, 5-6, 4-5, 6-5. Lenny Zucker '67, normally a sub in the other two divisions, had his first match experience against Karl Kinn '67 also had three wins.

Norwich triumphed

Norwich won two and dropped one against Brandeis after they had taken the lead. The final score was 29-21, 30-8, and 30-11. Norwich's win immediately followed after Brandeis lost 13 points.

How They Did

By James Robertson

Penalties: Fencing, 2; Track, 1.