

# TUITION RISES IN 1962



The original line for Centennial Weekend tickets as it appeared on Tuesday afternoon. It was later frozen until Sunday morning. — photo by Curtiss Wiler '63

## Two Hundred Dollar Increase Fifth In Ten Years; Salaries To Benefit

The MIT tuition rate will increase from fifteen hundred dollars a year to seventeen hundred dollars beginning in September of 1962, it was announced yesterday by President Julius A. Stratton. The increase was voted by the Corporation earlier in March, and marks the fifth rise in tuition since 1950.

"We deeply regret the conditions that make this change unavoidable, and we are postponing the increases for a year to give you more opportunity to plan for it," Dr. Stratton states in a letter to all students and their parents. The timing of the announcement was set to permit students to discuss the change in tuition rate with their parents over the forthcoming Spring Vacation.

Tuition will be seventeen hundred dollars for both undergraduates and graduates, maintaining a long-established MIT policy, of equal rates for all students. Tuition will still pay for less than one-half the cost of educating each student.

Charges for room and board are not affected by the increase in tuition; these costs undergo a complete review each January and no announcement concerning changes is possible until next year.

The tuition rise will go primarily to increasing faculty salaries, as well as to other educational personnel costs, such as library staff. Dr. Stratton writes, "Of late, faculty salaries everywhere have been falling behind those in industry and other professions. . . . Moreover, MIT must support a salary schedule that is on a par with the best of other educational institutions."

Walter A. Milne, Assistant to the President, stated that the greatest competition with industry came in the lower ranks of the faculty. Part of the in-

creased income will go toward alleviating the problem of attracting younger men into the  
(Please turn to page 8)

## NASA Satellite Carries Device Designed At MIT

The National Aeronautics and Space Administration's deep space probe launched on Saturday, March 25, carried an instrument designed by the MIT Laboratory for Nuclear Science to detect and measure interplanetary plasma.

Interplanetary plasma is a magnetized, electrically neutral mass of ionized gas that scientists believe is emitted from the sun and is responsible for a variety of physical phenomena both in space and on earth.

Dr. Bruno Rossi, professor of physics at MIT, is in charge of the Institute's interplanetary plasma project. Assisting him are Drs. Herbert S. Bridge, Frank Scherb, Alan J. Lazarus of the Laboratory for Nuclear Science, and Ervin Lyon of the MIT Lincoln Laboratory in Lexington.

## Centennial Celebration Next Week; Features Speakers, Procession

Preparations for Centennial Week, next Monday through Sunday, are nearing completion as scores of noted men of science from all over the world gather for the celebration of MIT's centennial year.

From Monday through Wednesday, closed panel discussions on scientific and technological progress and education will feature such well known names as Aldous Huxley, J. Robert Oppenheimer, Edwin H. Land, George W. Beadle and Dr. Jonas E. Salk.

Friday morning will feature reports from each of these discussions, given by MIT faculty members who will serve as reporters.

Friday afternoon will see the two principal speakers of the week, Prime Minister Macmillan of England and Secretary of State Dean Rusk.

Saturday morning and afternoon are allocated to panel discussions on various aspects of scientific advancement and the world situation.

Sunday will bring the academic procession and final centennial convocation, followed that night by a Centennial Concert given by the MIT Choral Society in cooperation with the Boston Symphony Orchestra.

## Roll Call Suspended

### Week-Early Camp-Out For Centennial

By Chip Goldblum '63

Tuesday, March 21, saw the lobby of Building 10 jammed with cots, television sets, refrigerators, tape recorders, musical instruments and other evidences of a high living standard, as the line formed for Centennial Weekend tickets—six days early.

Representatives of East Campus began the week-early competition for the 1,000 available tickets by establishing themselves as first in line about midnight Monday. Other living groups quickly followed suit after seeing the array of furniture in Building 10, and by late afternoon Tuesday nearly every campus living group had entered the waiting line for the sought-after tickets.

## Harrington To Speak For Undergraduates

Joseph Harrington, '61, former editor of *The Tech*, will represent the undergraduates of MIT at the Convocation on Sunday afternoon, April 9, marking the official end of the institute's Centennial Celebration.

The Sunday Convocation will begin with an Academic Procession attended by officials from many foreign and American universities, MIT officials and alumni, and several undergraduate representatives from Inscomm.



Harrington

The meeting in Rockwell Cage will be opened by Governor John Volpe, representing the Commonwealth of Massachusetts. Short speeches and greetings will be given by the representatives of the universities participating in the celebration; there will also be speeches by representatives of the MIT alumni. Harrington will present the formal greetings of the undergraduate body. The Convocation will be closed after a reply from President Julius Stratton.

This will be the finish of the official Institute Centennial celebration. However, there will be a student convocation on Monday morning, April 10.

A special meeting of the Centennial Weekend Committee was called for 5 p.m. Tuesday by Chairman Jerry Grossman, '61, after which a statement was released to the new residents of Building 10: the line would continue as formed until ticket sales the following Monday, March 27. Littering and noise were to be kept to a minimum, and periodic roll calls would be made to make sure each living group maintained its position in line.

However, growing dissension over the idea of a week's vigil in Building 10 brought about an agreement late Tuesday night that the waiting list for tickets, as established Tuesday, would remain unchanged by gentleman's agreement until the Centennial Committee announced the next roll call. Everyone went home.

The line formed again (on schedule) Sunday, March 26, at 9 a.m., and tickets went on sale just 24 hours later. Chairman Jerry Grossman said that "a limited capacity for expansion" of facilities at all events would be utilized; present plans call for extension of the Friday night dance into the Armory as well as Rockwell cage.

## Special Issue

*The Tech* will publish a special issue in connection with MIT's Centennial Celebration next week. The paper will be distributed to all Centennial delegates on Thursday, April 6, and will be on general sale after Spring Vacation.

## All-Tech Sing Is Success



One of the highlights of All-Tech Sing was the presentation by "a motley crew of student and faculty bums" of "Ein Musikalischer Spass" (A musical joke) by Mozart. Notably present in the group were Prof. Klaus Liepmann and John Corley who have been known to attempt more serious pieces.  
— photo by Curtiss Wiler '63

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# Art And Music To Complement Centennial Events

Centennial Week at MIT features many exciting and interesting events, including art exhibitions and musical entertainment of considerable variety. These events are daid out in a well-organized schedule for the week, April 2 through 9, and should prove more than adequate entertainment for the delegates and guests attending the week's celebrations.

Paintings, drawings, and sculpture from the private collections of MIT alumni will be on exhibition in the Hayden Gallery at the Institute and will remain there through the end of April. Included in the collection will be 40 paintings, ten drawings and prints, and 15 pieces of sculpture. Except for a small group of items, all of the works are by 20th Century artists, ranging from Manet down to the present day. Many prominent alumni have loaned art works for the exhibit, including I. M. Pei, architect for the forthcoming MIT Center for the Earth Sciences; Nathaniel Saltonstall; Robert D. Patterson; John J. Wilson; Mrs. Edwin Webster; Dr. James R.

Killian, Jr., and Dr. Julius Stratton.

The first musical event of the week will be held as a part of the Atoms for Peace Award on Thursday evening, April 6, at Kresge Auditorium, when Lady Susi Jeans, the noted English organist and music researcher, will play two organ works during an interlude in the ceremony—the "Prelude and Fugue in D minor" ("A Wedge") by J. S. Bach and the "Tocatta in C major" by Franz Schmidt. Lady Jeans, widow of Sir James Jeans, will be in this country on a concert tour and will also play a public concert, the final program of the MIT Organ Concert Series, on Wednesday, April 12, at 8:30 p.m. in Kresge Auditorium.

On Friday evening, April 7, the United States Navy Band

from the Boston Naval Base, under the direction of Warrant

Officer Glendon H. Weir, will play prior to, during, and after the third General Assembly at 8 p.m. in Rockwell Cage, when Prime Minister Harold MacMillan of the United Kingdom will address Centennial delegates and guests. The program will include the Brazilian March; Parisien Suite, by Jacques Offenbach; Overture and Finale from "Music Man," by Meredith Willson; Amparito Roca, pasodoble by Jaime Texidor; Knightsbridge March from "London Suite" by Eric Coates; Standard of St. George, processional English march by Kenneth Alford; the national anthems Star Spangled Banner and God Save The Queen. Closing numbers will be Stars and Stripes Forever by John Phillip

Sousa, and the Colonel Bogel March by Kenneth Alford.

The Centennial Convocation Sunday will be opened by the MIT Choral Society, conducted by Klaus Liepmann; it will sing the 67th Psalm in a setting by Charles Ives. During the program, the first performance of Gregory Tucker's "Centennial Overture," which was composed especially for the Centennial will be performed by the MIT Concert Band under the direction of John Corley.

The final musical event of the week, also on Sunday, April 9, will be a presentation by the MIT Choral Society of Franz Joseph Haydn's "Creation." This will be a special Centennial concert in Kresge Auditorium at 8:30 p.m. Klaus Liepmann will conduct the chorus and the Cambridge Festival Orchestra.

Soloists will be Helen Bosworth, soprano; Charles Bresler, tenor; and Paul Matthei, bass.

—Kraig W. Kramers '61

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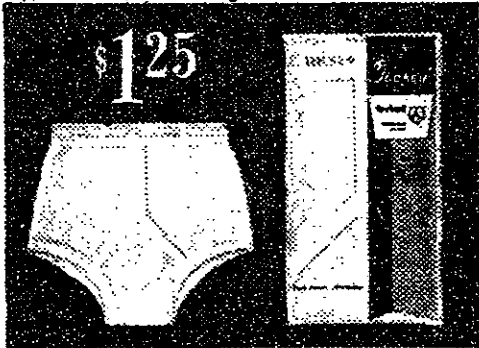
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# WTBS Shows Studios; FM Broadcasting Begins April 10

THE TECH

WED., MARCH 29, 1961

Page 3



## Non-Commercial Shows To Come From Walker

Shown above are several scenes of the open house held last Friday at the new WTBS radio studios in Walker 030. The station has occupied the studios since Thanksgiving vacation. At upper left, William Mohn, Chief Engineer, demonstrates the Ampex stereo tape recorder.

At lower left, Phil Marcus engineers at the console while visitors observe his technique. In the background are relay racks which will hold FM broadcast equipment. At right, announcer Russ Norris shows how a Night Owl request show is run. The scene is in the station's newly equipped Studio "A."

WTBS is preparing for FM broadcasting which will start April 10. The station will occupy a non-commercial channel at 88.1 mc. FM and will transmit to the Greater Boston area. All photos by Boyd Estus '63.

## Techmen Place Third In Math Competition

The MIT Math Team placed third in the Mathematical Association of America's William Lowell Putnam Competition this year. The University of California (Berkeley) and Harvard placed first and second respectively. Members of the MIT Team were: Frank Rubin '62, John Wells '63, and Stephen Orszag '62, who was awarded Honorable Mention in the Individuals category.

In addition to the team, six Techmen, ranging from sophomores to seniors, competed as individuals.

## Corporation Member, Professor Kaye, Die

Two individuals of long-standing service to MIT died last week. Joseph Kaye, '34, Professor of Mechanical Engineering, died on Monday, March 20, after 22 years of association with MIT. He was the co-inventor of the thermo-electron engine, a device to generate electricity directly from heat.

James McGowan Jr., '08, Life Member of the MIT Corporation, died in Philadelphia on March 15. Mr. McGowan was the former chairman and president of the Campbell Soup Company, and was elected a Life Member of the Institute Corporation in 1952.

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### Lecturers - 3

(Continued from page 4)

— gave period of relief from the humdrum of Tech. Without equal anywhere — energetic, interesting, understandable. Stimulates thinking — only lecture which is adequate by itself, without text — good for both math lovers and those who accept math as a funless necessity. Inspiring — very patient — can sense when class doesn't understand — fantastic.

*Prof Reissner:* Creates no interest. Humor creates interest — worries too much about trivia, such as what is left on blackboard — textbook is more help — good — excellent — paid too much attention to trivialities — doesn't mention interesting sidelights, only presents essentials — writing hard to read — vague — right out of the book (unfortunately) — no life — gets point across — parroted the text, useless — very good — very good blackboard technique and diagrams.

18.01 in general — need more time for problem solving — an extra problem solving session would be helpful — one recitation not adequate — recitation instructors the quality of the lecturer (Prof. Singer) would be ideal for three recitation periods a week — recitation presently a waste of time — should find recitation instructors interested in teaching. Multiple choice reminiscent of high schools — tests ability to do multiple choice quizzes, not knowledge of calculus — no partial credit possible.

### Letters:

(Continued from Page 4)

to achieve your purposes. Professor Mattuck has given you good advice about how something constructive can be done. The method he suggests has the disadvantage of doing absolutely nothing for *The Tech's* circulation, but if you are sincere, I would urge you to take his good advice.

F. Albert Cotton  
Assoc. Professor of  
Chemistry

To the Editor:

This letter is to encourage you to publish, as promised in the March 1 issue of *The Tech*, the remainder of the lecturer evaluations made available through the SCEP reports. As long as these reports are properly identified—i.e., as the separate responses of about 25% of the individuals in the Freshman class—I can see no objection to so doing.

MIT students and faculty should realize that an underclassman's evaluation of his instructor usually runs in almost direct proportion to his final grade in the course. If he got an A, he's a great guy; a B, on the whole, a good teacher . . . etc.

They should realize that many Freshmen are not yet aware of the two-way relationship between lecturer and student. They should note the 25% figures, and see that the more vocal elements, those people with extremes in opinion, are the ones who commented.

Such obvious contradictions as "a very good teacher . . . presented the subject in an uninteresting manner" in separate references to a single lecturer bear this out.

When you look at the published report for what it is, in a realistic light, the reaction of some faculty members seems faintly ridiculous. A few paragraphs of comments by Freshmen on four professors, ranging in fact from pointed criti-

cism to high praise, seem to be enough to make some faculty members decide not to teach freshman courses.

I, for one, would like to see the series completed. There is no reason to single out the Chemistry Department. Let the criticism and praise fall where it may, and let it be evaluated for just what it is: the somewhat opinionated reactions of somewhat immature scholars, and a minority of them at that.

This being the case, it might be asked what value lies in publishing the comments. The answer is that if it falls under the heading of constructive criticism of education at MIT, it is valuable.

Who is so good that he can not at least listen to the comments of others, and judge their validity for himself. The student newspaper is the logical place for the publication of student opinion. Although it is certainly a blunt approach to the problem, it has been made clear that the channels of quiet diplomacy were tried to no avail.

The bitter reaction of what is hopefully a minority of faculty members ill bespeaks their attitude toward what should be their primary source of information in improving their teaching power.

Joseph Harrington III '61

To the Editor:

I respectfully request to disagree with Professor Mattuck. Let me first make it clear that I do not think *The Tech* acted responsibly in publishing the "report" on the freshman questionnaire in the form which was used. Individual comments, if quoted at all, should have been accompanied by quantitative indications of their frequency of occurrence. Nor do I believe that complaints about "snowing students", "hairy lectures", etc. can properly be evaluated without supplementary information about the complainer.

To this extent I agree with Professor Mattuck that the particular article published was in poor taste. I was disturbed, however, by the attitudes I found expressed in his letter. I hope I have misinterpreted his remarks, for surely he can not mean to imply that the primary purpose of MIT is anything but the education of students. I have been led to believe that

the Institute's business is education, and that as a customer I may contribute to the quality of the product by pointing out ways in which it might be improved. I have more confidence in the Administration than to expect serious constructive criticism to provoke "an inflexible position of pride." I look upon reasonable criticism not as a right, but as a duty; and I consider publication a legitimate vehicle just because it does provoke discussion.

A lecturer is not a paid entertainer, of course, nor do students expect him to be one. Nevertheless, I still think that a professor is supposed to be a teacher. If he sincerely desires to teach well, he will be grateful to students who attempt by their criticisms to help him improve his presentation. If, on the other hand, he feels that his "teaching" should be immune to criticism, he should not accept teaching duties. Most MIT students have made sacrifices in order to obtain a really fine education, and a man with no intention of helping them in this quest should not pretend to participate.

Professor Mattuck's suggestion that an uninteresting, poorly prepared lecture may well be better than an inspiring and capable presentation is susceptible to the "reductio ad absurdum" that no lectures at all would constitute the best system. An inspiring lecturer is far more likely to interest a student in investigating the subject further than one who himself seems totally uninterested by the topic.

An education provides a student with more than facts and methods. Inevitably, and most importantly, it will also instill attitudes. A succession of dull lectures given by men who do not seem to care whether anyone understands or becomes interested is one of the worst ways conceivable to develop a professional spirit of devotion to first-rate work. The suggestion by a member of the faculty that the depressing and discouraging should be sustained, that all student criticism should be muffled lest anyone be offended, and that such criticism can not and should not be effective, can only help to weaken any enthusiasm for good work that may be present in the student body.

Irving H. Thomae '62

## 'Operation Abolition' Fails In Its Intended Mission

Many questions have been raised as to the accuracy of "Operation Abolition." This reviewer has not attempted to evaluate or comment upon these charges, and has judged the movie only on its own merits.

"Operation Abolition" purports to show "Communism in action;" it not only fails to do this, but it insults the intelligence of all MIT students. The propaganda techniques used are blatantly transparent; the slurs, innuendos, and unsupported accusations are shocking. This picture does more to hurt the House Un-American Activities Committee (HUAC) than any student demonstration possibly could have.

The film opens showing a pamphlet "The House Un-American Activities Committee Should Be Abolished" signed by Rep. James Roosevelt. The narrator identifies it as "being distributed by hard-core Communists and their dupes" as part of a plot to destroy the committee "called by the Communists 'Operation Abolition'". With no further introduction and none of the usual credits, the film then shows Rep. Francis Walter, chairman of HUAC, who identifies "known Communists" who will be shown in the film and tells the viewer that he will see "well-trained, hard-core Communists" inciting student riots. The scene switches to City Hall in San Francisco with students peacefully picketing in front. Additional scenes show students standing outside the hearing room. Inside the hearing room witnesses are shown testifying before the committee. A student demonstration is then begun with chants of "Open the doors" and is culminated with the singing of the "Star Spangled Banner." Other scenes show students being sprayed with firehoses and being dragged down stairs by police.

At the end of this picture the narrator says "You have just seen Communism in action," yet this picture does no such thing. In only one place are alleged communists shown

OPERATION ABOLITION: Produced by Washington Video Productions from television newsreels subpoenaed by the House Un-American Activities Committee; shown in 10-250 Wed., Mar. 22. Additional showings in Boston area; at Boston University (no dates announced yet). Running time: 43 minutes.  
Narrator: Fulton Lewis III.

attempting to incite students and that is in the committee hearing room where the witnesses, using the microphones supplied by the committee, lead the chanting of "Open the doors." Nowhere else is a Communist shown leading a demonstration. One man is shown "shortly after agitating students;" nowhere does it show him doing this. Witnesses are shown being led from the city hall, but none are shown leading a demonstration or inciting a riot. The narrator speaks of a student jumping the barricade and clubbing a policeman and of violent student resistance on the part of the students, yet nowhere are there any pictures of this.

Standard propaganda techniques are used throughout this movie. Students are shown being arrested and the narrator refers to one man "charged with sedition," yet nowhere is any mention made of conviction. Another propaganda technique, guilt by association, is used by Rep. Walter when he calls this protest part of the Communist attempt to destroy the FBI and security laws.

The poorest part of the picture, however, is the lack of correlation between the film and the sound track. The narrator says that this is "the chosen battlefield of the Communists" and on the screen students are shown peacefully picketing. The narrator refers to communists leading chants and songs—on the screen: two girls sit on the floor doing homework, several students talk to a policeman at the door, no lips move in chanting or singing; there is perfect calm and order. The narrator speaks of Communist mass defiance of law and order — on the screen: students peacefully picket or listen to the hearings over a public address system. Dozens of other such incidents fill this picture.

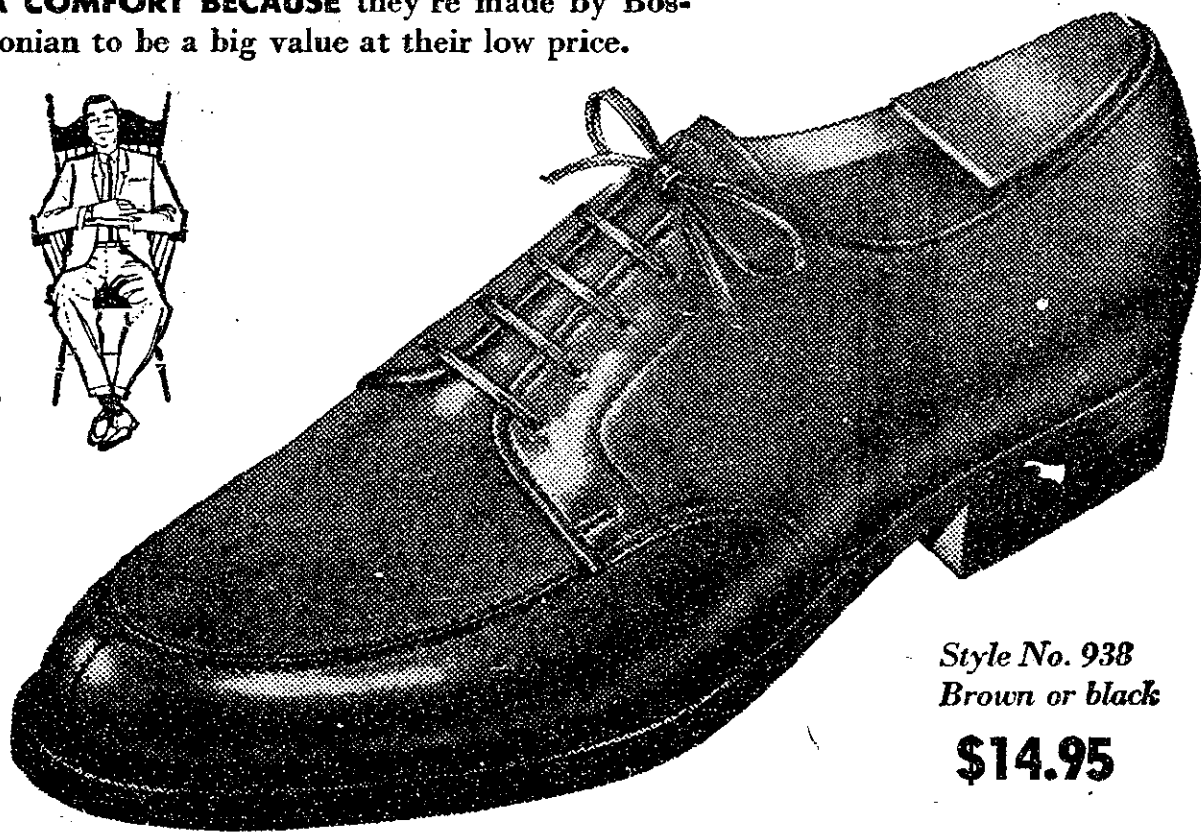
Considering the newsreels without the narration, they show only students peacefully picketing, peacefully waiting for admission to the hearing room, or non-violently resisting police and firehoses. Only in the hearing room is there any sign of students actually disrupting hearings or of Communists leading demonstrations. It is through the narration that the film attempts to show "Communists in action," but because it does this through innuendo, accusation, and association without any actual facts, and because the narration is rarely supported by the newsreels, it is unsuccessful. "Operation Abolition" is a painful failure.

— Joseph Hanlon '63

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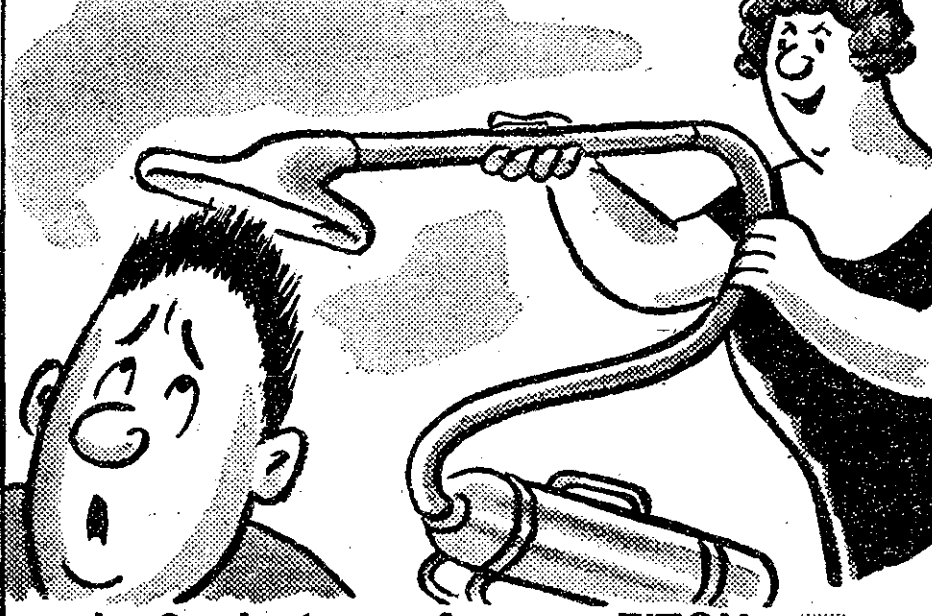
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Subscribe To *The Tech*

**Sellers Crime Spoof At Exeter**

"Two-Way Stretch," Peter Sellers' latest appearance at the Exeter Street Theater, is a mildly amusing spoof of British prisons, law and order, and the British army, complete with a moral that crime does pay, almost.

simultaneously on unions and management, but this may be a result of this reviewer's relative unfamiliarity with the subject matter of the former. The plot deals with the efforts of Dodger Lane (Peter Sellers) and his two cronies to escape from Huntleigh Prison in order to rob the Sultan's jewels and then return to their cell unnoticed, thus providing the perfect alibi. Their scheme is aided by a dishonest parish vicar and Lane's "dumb blonde" girl friend, whose character seemed to have been lifted bodily from the earlier film. (Or is this a good caricature of English womanhood?)

The earlier part of the story depicting the threesome's easy life as inmates at Huntleigh is used as a vehicle for an uninspired parody of rehabilitation of criminals. Events are further complicated when the easy-going prison Chief Officer is replaced by a whip-cracking sergeant, who thwarts many of the trio's efforts, but only at his own expense. These episodes are heavy slapstick as would be expected, but contain none of the clever satire which characterized the earlier picture.

Finally, during the robbery attempt there is a burlesque of the British army and its thorough, if not efficient, planning. All in all, the comedy provides an entertaining evening, but does not live up to the expectations of one who has seen Sellers' previous appearance.

Paul T. Robertson '61

**Concert of Schubert**

**Schiotz To Sing Tonight**

Tonight at 8:30 p.m., Aksel Schiotz, Danish baritone, will present a concert in Jordan Hall. Accompanied by the piano by Paul Ulanowsky, Mr. Schiotz, will perform the song cycle by Schubert, "Die Winterreise" (The Winter Journey).

Mr. Schiotz, who was recently bestowed the honor of singing before their Majesties the King and Queen of Denmark, is currently on the faculty of the Royal Academy in Toronto, Canada. It is noteworthy that this concert will climax a series of three performances of the "Winterreise" . . . the first at the National Gallery, Washington, D.C., and the second in New York's Town Hall.

Tickets for the concert may be purchased at the Jordan Hall Box Office for those interested in what will probably be a fine evening of entertainment.

— Kraig W. Kramers '64

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# Duca's Metal Sculpture On Display In New York

Alfred M. Duca, Boston artist and research associate in the Department of Metallurgy of the Massachusetts Institute of Technology, is having a one-man show in New York City. The exhibition of his 21 pieces of metal sculpture opened on Tuesday, March 11, in Mrs. Edith Halpert's Downtown Gallery and will run for a month.

Included in the collection are five new works: "Schweitzer," "The Survivors," "Trickhorse," "Family Group," and "Stoic." All have been cast by the ceramic-shell process, a new casting method being explored for sculptural application by Mr. Duca as a part of his research.

Personifying the merger of artist-craftsman with scientist-technician, Mr. Duca has been carrying on experiments in art casting in cooperation with regional industrial foundries. His purpose has been "to evaluate the practicability of industrial techniques and facilities for artists working in metals."

Mr. Duca's recent stainless steel sculpture "The Survivors" is one of the largest ceramic-shell castings ever attempted; characteristic of the new process, it is precise and flawless in its surface detail. In fact, so

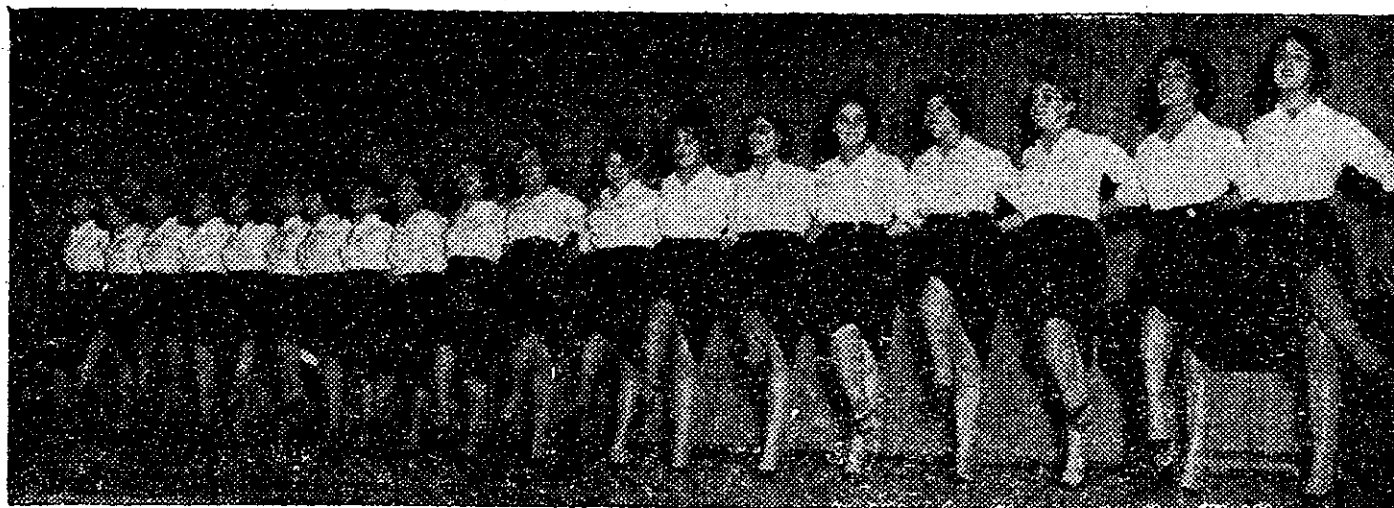
precise is the process that it will reproduce a thumbprint from wax. The process is remarkably economical as well.

Alfred Duca's sculpture points up his command of a variety of molding materials, such as stainless steel, ductile iron, bronze, monel, and aluminum. The artist talks of his work in terms of "principle integrity—to reproduce faithfully the artist's effort in a permanent material, regardless of style."

Anyone interested in metal sculpture and who will be in the New York area in the next few weeks, why not stop in at Halpert's Downtown Gallery and take a look at an artistic product of MIT's research departments?!

— Kraig W. Kramers '64

# Sigma Chi Wins Tech Sing



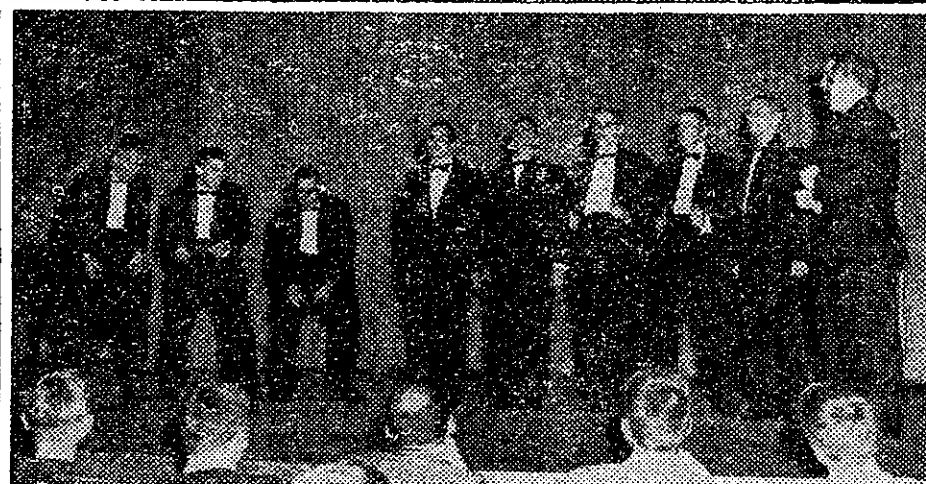
Sigma Chi walked off with the best in show cup as the MIT Baton Society presented the All-Tech Sing in Kresge Auditorium last Saturday night. Beta Theta Pi was second in the serious music division behind Sigma Chi. The Theta Chi Chorale won in the light music division, the Association of Women Students was second. The special "Egbert" award for the most novel performance was won by the Association of Women Students.

Dean Frederick Fassett, Jr. was Master of Ceremonies. Approximately 850 people attended the show.

Theta Delta Chi started the show off well with three American folk songs. They were well arranged and the group showed good harmony. The "Burtones" of Burton House sang an amusing selection of songs.

Beta Theta Pi came forth in a large group which sang "From Boston Harbor," "Adramus Te," and "Tutti Venite Armati," the last an Italian soldiers ditty.

The Association of Women Students did a song and dance routine written and arranged especially for the show. Considering the new women's dorm soon to be built, their first song was, "The Coed of the Future Will Have Class." They then requested the audience stand



The Association of Women Students mustered their traditional chorus line to spoof the cultural quality of the Tech man in an Egbert-winning performance. Below, the Theta Chi Chorale in a take-off on "Mary" which helped them to win first place in the light music division.

up for Mendelsohn's "Halleluia," but sang just one halleluia.

The Senior House Russian colony sang four songs in Russian. A trio from Theta Xi, complete with guitars and a banjo, sang three songs including an original ballad entitled "The MIT Man."

Sigma Chi sang three beautiful choral pieces. As winner of the best in show award, their group name will be put on a permanent trophy.

The Theta Chi Chorale, winner of the light music division was next. Their first number was a hilarious rendition of "Mary," followed by a new ver-

sion of that old classic, "The Halls of Ivy." It was an eight verse story of MIT entitled "The Walls of Ivory."

A quartet from Lambda Chi Alpha sang two ballads, and the Non-Resident Student Association sang four songs.

While the judges were reaching their decision a group entertained the audience with "Ein Musikalischer Spass," by Mozart. The name translated means "A Musical Joke," and was composed by Mozart as a satire on contemporary Musicians.

— Albert L. Zobrist '64

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# Kibitzer

(Continued from page 4)

North passed and East made the rather unexpected call of 2 clubs, the Stayman convention asking partner to bid a 4 card major. This bid is normally made when one suspects that a 4-4 major fit will produce a game contract superior to 3NT, but with strong minor suit hands it is necessary to use the Stayman convention as a temporizing measure because any immediate bid in diamonds would be considered preemptive rather than strong.

South's vulnerable overcall of two hearts will pass with the silence it deserves. West's double was almost mandatory after his shaded opening, and North's pass cannot be criticized, East had quite a problem in deciding whether to bid 3NT, 5♦, 6♦ or pass, but he correctly decided that 6♦ would have its problems and lesser bids could be adequately compensated for by setting 2 hearts doubled two tricks for 500 points.

West's opening lead was the ace of spades, on which East played the deuce, persuading

him to shift to the club 5. North won the ace and led back a small diamond to East's ace. At this point South might just as well show East his hand, because East knew its distribution and every important card therein!

West had announced a doubleton spade ace, doubleton king-jack of diamonds and thus needed all missing honors and a five card club suit to account for his weak no trump opening bid! How seldom the declarer has the opportunity to so completely psyche out a hand so early in the play, yet how frequently this happens for the defense.

East returned a spade to South's king and South led the heart jack for a finesse through West's queen, East won the ace and wisely cashed out the queen of clubs before leading a spade for West to ruff. South could have held his losses to down one for a good score had it not been for this alert play by the defense.

# Tuition Up To \$1700 In September, 1962

(Continued from Page 1)

teaching ranks, though all faculty salaries are due to be raised proportionally.

In his letter, Dr. Stratton states that only one other institution gives more financial support per student enrolled. Over \$1,300,000 was given in scholarships and over 500 million dollars in loans was granted this year. The scholarship endowment was increased by \$1,750,000 last year and this year an additional \$1,470,000 has thus far been received.

It is the hope of the Corporation that the increased scholarship endowment will help alleviate the financial burden on students and their families.

Part of the \$66,000,000 that MIT is seeking in the Second Century Fund will go to endowing new Professorships in various departments, thus releasing additional funds for other salaries. Another portion of the Fund will go to student scholarships and loans.

The Office of Admissions does not believe the tuition rise will adversely affect applications for the freshman class. Mr. Richard Willard, Statistical Analyst for the Admissions Office, admitted that final applications for the class of 1965 "were down about nine and one-half percent," but he did not attribute this to costs.

He said that the drop in applicants was probably due to improved guidance on the part of the high schools, and the possibility that many potential applicants were "fed-up" with the competition for schools such as MIT.

Mr. Willard noted that applications were down about ten percent in most of the Ivy League schools and other colleges of the same type. Most of these other colleges attribute the drop to improved high school guidance, with costs a possible factor.

Administration spokesmen declined to predict what the next few years would bring in the way of further tuition rises. It was asserted that too much depends upon the state of the economy and other unpredictable circumstances.

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Answer: Yes \_\_\_\_\_ No \_\_\_\_\_

Question #2: How many children do you plan to have when you are married?

Answer: None \_\_\_\_\_ One \_\_\_\_\_ Two \_\_\_\_\_  
Three \_\_\_\_\_ Four \_\_\_\_\_ Five \_\_\_\_\_  
Six \_\_\_\_\_ Seven or more \_\_\_\_\_

Question #3: Should class attendance be optional so long as students pass the exams given in class?

Answer: Yes \_\_\_\_\_ No \_\_\_\_\_

Question #4: When buying cigarettes, which do you usually purchase, the soft pack or the box?

Answer: Soft Pack \_\_\_\_\_ Box \_\_\_\_\_

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L&M Campus Opinion

Answer: Question #1. Yes 36.2%. No 63.8%.

Answer: Question #2. None 3.1%. One 8.3%. Two 30.5%.  
Three 30.6%. Four 16.4%. Five 4.6%.  
Six 2.3%. Seven or more 4.2%.

Answers: Answer: Question #3. Yes 68.7%. No 31.3%.

Answer: Question #4. Soft Pack 72.2%. Box 27.8%.

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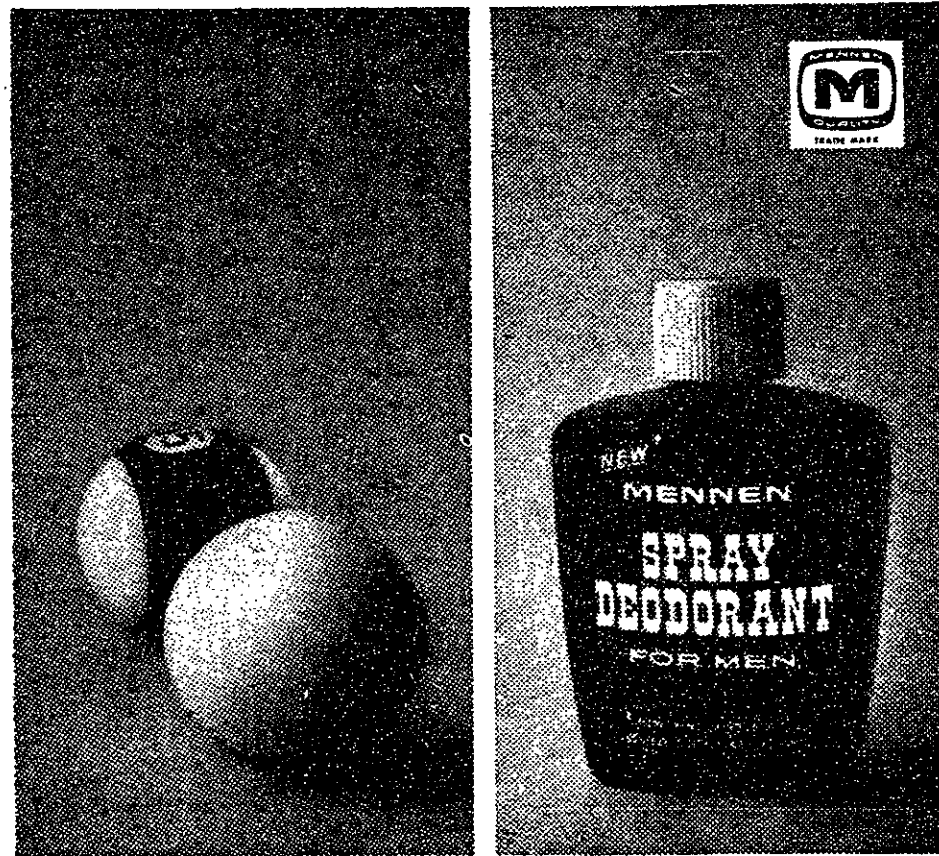
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**On Campus** with **Max Shulman**  
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**BOOM!**

Today, foregoing levity, let us turn our keen young minds to the No. 1 problem facing American colleges today: the population explosion. Only last week four people exploded in Cleveland, Ohio—one of them while carrying a plate of soup. In case you're thinking such a thing couldn't happen anywhere but in Cleveland, let me tell you there were also two other cases last week—a 45 year old man in Provo, Utah, and a 19 year old girl in Bangor, Maine—and in addition there was a near-miss in Klamath Falls, Oregon—an eight year old boy who was saved only by the quick thinking of his cat Walter who pushed the phone off the hook with his muzzle and dialed the department of weights and measures. (It would perhaps have made more sense for Walter to dial the fire department, but one can hardly expect a cat to summon a fire engine which is followed by a Dalmatian, can one?)



I bring up the population explosion not to alarm you, for I feel certain that science will ultimately solve the problem. After all, has not science in recent years brought us such marvels as the transistor, the computer, the bevatron, and the Marlboro filter? Oh, what a saga of science was the discovery of the Marlboro filter! Oh, what a heart-rending epic of endless trial and error, of dedication and perseverance! And, in the end, what a triumph it was when the Marlboro scientists after years of testing and discarding one filter material after another—iron, nickel, lead, tin, antimony, sponge cake—finally emerged, tired but happy, from their laboratory, carrying in their hands the perfect filter cigarette! What rejoicing there was that day! Indeed, what rejoicing there still is whenever we light a Marlboro and settle back and enjoy that full-flavored smoke which comes to us in soft pack or flip-top box at tobacco counters in all fifty states and Cleveland!

Yes, science will ultimately solve the problems rising out of the population explosion, but in the meantime the problems hang heavy over America's colleges. This year will bring history's greatest rush of high school graduates. Where will we find classrooms and teachers for this gigantic new influx?

Well sir, some say the answer is to adopt the trimester system. This system, now in use at many colleges, eliminates summer vacations, has three semesters per annum instead of two, and compresses a four year course into three years.

This is good, but is it good enough? Even under the trimester system the student has occasional days off. Moreover his nights are utterly wasted in sleeping. Is this the kind of all-out attack that is indicated?

I say no. I say desperate problems call for desperate remedies. I say that partial measures will not solve this crisis. I say we must do no less than go to school every single day of the year. But that is not all. I say we must go to school 24 hours of every day!

The benefits of such a program are, of course, obvious. First of all, the classroom shortage will immediately disappear because all the dormitories can be converted into classrooms. Second, the teacher shortage will immediately disappear because all the night watchmen can be put to work teaching calculus and Middle English poetry. And finally, overcrowding will immediately disappear because everyone will quit school.

Any further questions?

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Yes, one further question: Have you tried Marlboro's newest partner in pleasure—the unfiltered, king-size Philip Morris Commander? If not, by all means come aboard. You'll be glad you did.

**Meet The Coaches**

**Barry Sotir**

"A winning coach, sound tactician, low-keyed and calm under pressure" is how varsity baseball and basketball coach John G. "Jack" Barry has been described by an area sports writer. A native of Katonah, New York, Barry has had a wide background playing and instructing athletics, starring in high school basketball, baseball, and football. At the University of Michigan, where he graduated in 1942, he captained the baseball team and was a letterman in the other two sports.

**Pitched In Pro Ball**

Barry has played professional baseball with Montreal, an AAA Dodger farm team, and with Jersey City (AAA), Jacksonville (A), and Minneapolis (AAA) of the Giants' farm system. A pitcher, he was called up to the Giants twice but failed to stick. "I wasn't fast enough," he says.

Barry began his coaching career as athletic director of the undergraduate Wolverine Cooperative at the University of Michigan. Primarily organized as a student-managed



Coach Jack Barry

cafeteria, the Cooperative was soon entering Barry - coached teams in 16 sports. Since he continued to play on varsity teams at the same time, Barry attributes much of his extensive knowledge of athletics to his college days.

During Army service Barry played and coached successful baseball and basketball teams at Andrews Air Field in Washington, D.C. Before 1950 he played pro baseball in the Northern League and from 1950-54 managed several League teams. Northern League ballplayers are mainly college students on summer vacations, and Barry's teams enjoyed winning seasons year after year.

**Popular Athletic Program**

Before coming to MIT in 1959 Barry coached at Newport, New Hampshire, and Methuen, Massachusetts, high schools. It was at Methuen that he became popular with school officials and the general public for establishing a comprehensive student physical education program. The program included athletic instruction for all students down to the 5th grade of grammar school (nearly 4000) and offered such sports as judo and tumbling.

Barry's first stint as MIT basketball coach saw the team post a 1-15 record, his only losing season in 18 years of coaching. This winter the record was 11-8, MIT's best in history. The freshman baseball team, coached by Barry, was 6-3 last spring. With his first season as varsity baseball coach beginning soon,

(Please turn to page 10)

Alex Sotir, one of the most recent acquisitions of the coaching staff, is a highly versatile athlete. He won three letters at his high school and during his undergraduate career at Springfield College, Springfield, Massachusetts, managed to accumulate an outstanding record.

As a prelude to his present position as the coach of a very successful wrestling team, he won the New England Heavy-weight championship in wrestling for Springfield in 1954. He also lettered in football at Springfield, a college noted for its athletic endeavors.



Coach Alex Sotir

Alex served in the Navy for the years 1954 to 1958 and played with the Pensacola Navy Base football team. He joined the Coaching staff here in 1958 as wrestling coach and assistant track coach.

He expanded his activities both in physical education training and in varsity practice, and he presently teaches physical education courses in wrestling, squash and skating. His varsity coaching extends from his wrestling during the winter to fall track, and spring lacrosse.

Alex's reign as wrestling coach has seen a marked improvement in both the team's morale and performance through the past three years. From a losing season in 1958-1959, MIT's grapplers improved to a close fifth in the ratings of New England's eleven participating wrestling schools. The 1960-61 season has



Coach Sotir comforts Captain Dave Latham '61.

brought the team to a eight and two record finishing a close tie for third with the U. S. Coast Guard Academy behind Springfield and Amherst.

Alex is married with three children and presently commutes from Lexington.

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**Looking Back...**

*75 Years Ago*

On Saturday afternoon the gymnasium was filled with a crowd of three or four hundred people, it being the occasion of the indoor winter meeting of the Athletic Club.

The events were: Running High Jump, winning height, 5' 3/4"; Running High Kick, winning mark, 8' 11"; Fence Vault, winning height, 6' 7"; Putting the Shot, won with a put of 38' 3"; Pole Vault, a vault of nine feet won; Standing High Jump, winner cleared 4' 7".

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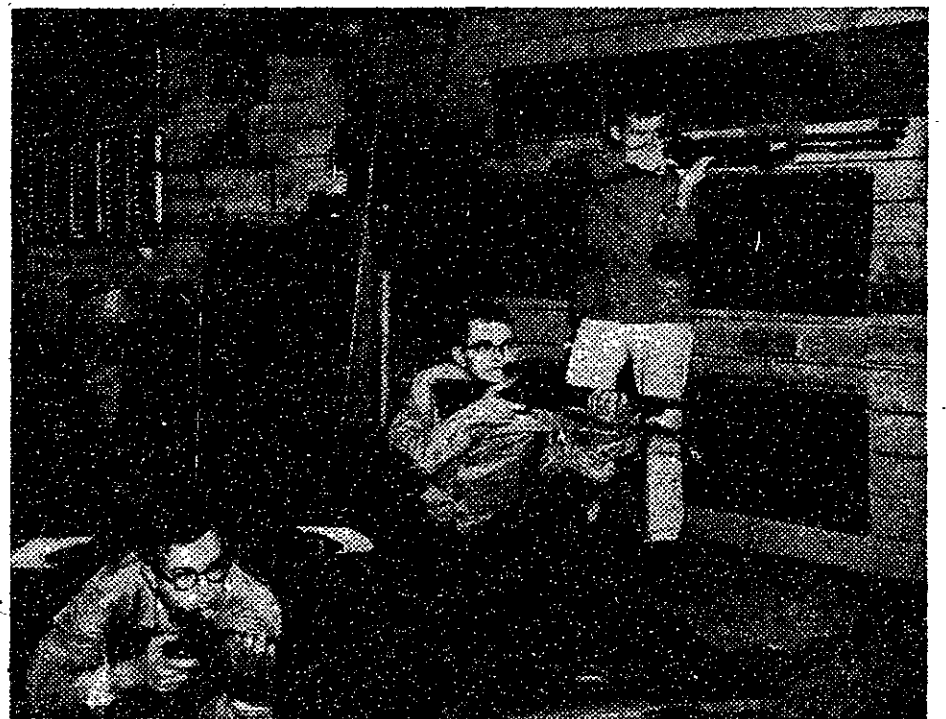
# Tech Rifle Team Undeclared In League Firing

Friday, the Tech Rifle Team clinched top honors in the Greater Boston College Rifle League with a double victory over Northeastern and Boston College at the BC range. M.I.T. has defeated each of the four league opponents twice for a perfect season record.

In the Friday victory the Tech Team fired a 1434, its second highest score of the season, against Northeastern's 1398, and BC's 1374. Albert Gleim '62 fired a 290; Jerry Skinner '63 and Team Captain Bill Leffler '62 fired 287's; and Ron Pellar '61 and Richard Ludeman '63 fired 285's to produce the winning score.

**NRA Match This Weekend**  
Scores above 1430 in the last two matches have boosted the team's season average to a very respectable 1424.7. The team is thus in top form for the National Rifle Association Sectional Match this weekend at the Coast Guard Academy. MIT has a chance for a top place in the national standings though the results won't be known for several weeks.

The win Friday completed



Three of Tech's top shooters demonstrating the three positions used in Intercollegiate Rifle competition; (l to r) Richard Ludeman '63 in the prone position, Ron Pellar '61 kneeling, and Team Captain Bill Leffler '61 in the offhand (standing) position.

the regular season schedule of shoulder to shoulder matches. This year's record was 19 wins and 4 losses, with several of

the victories occurring in three-way matches. MIT took First Place and compiled perfect records in both New England and Greater Boston Leagues for the most successful Tech season in recent years.

## Barry Comments On Tech Sports

(Continued from Page 9)

Barry says he "hopes to improve on last year's 2-17 record."

Easy talking, with close-cropped black hair and black-rimmed glasses, Barry contrasted coaching high school and college students. "A high school may have relatively better players compared to its competition than does MIT, because each player can devote more time to practice than an MIT player can. Here he must like sports while being a better-than-average student. As far as coaching goes, I find it easier to coach MIT students compared to high school students, but natural athletes are more apt to be found in high schools."



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So Bill did it. His report became the guide for planning and budgeting future construction.

On his next move, Bill proved he could handle supervisory responsibility. He was sent to head up

a group of seven engineers to design a new long distance switching center for Saginaw, Michigan—a \$4,000,000 engineering project.

Today, Bill is on the staff of Michigan Bell's Program Engineer. He's working on a system for mechanized control of telephone construction costs.

How does Bill feel about his job? "Give a man a tough job and a chance to go somewhere—and he'll break his neck to do it. Of course, I don't think I'm going to be running the business next year—but I'm getting every opportunity to hit the top. You don't worry about opportunity here—you worry about whether you're as big as the job."

*If you're a man like Bill Ebben, a man who can size up a job, figure out what needs to be done, and then do it—then you should get in touch with one of the Bell Companies. Visit your Placement Office for literature and additional information.*



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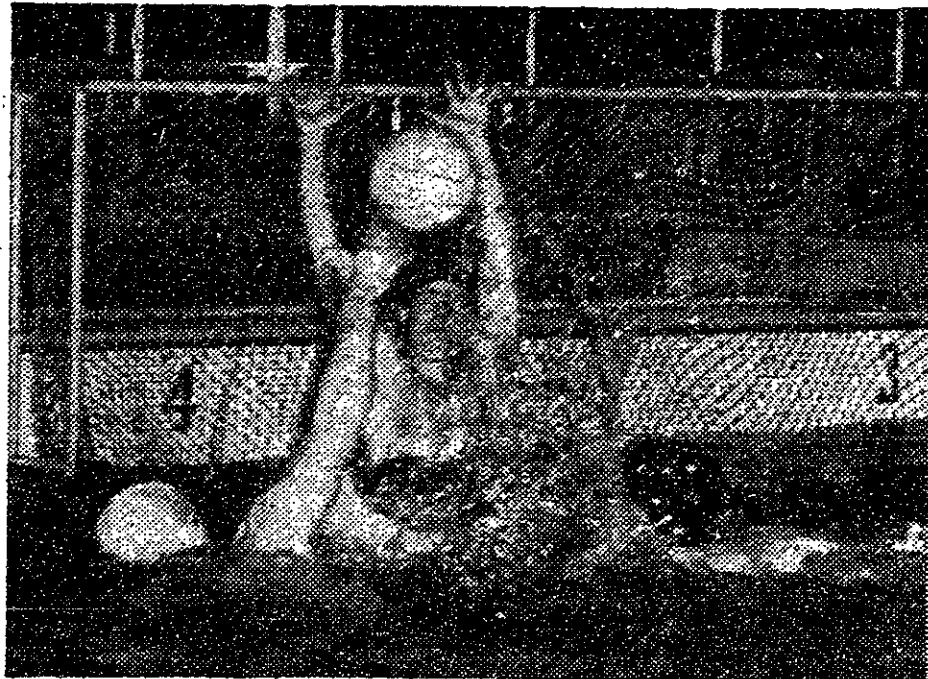
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# Water Polo In Second Year At Tech

By Jeff Travers '64

An offbeat activity in its second year at MIT is the Water Polo Club. These little-known tankmen compete on a club basis in a New York-New England league that includes such powers as Yale and Army. Coach of the team is Dr. Emory Farks, physicist employed by the National Research Corporation. Dr. Farks, who donates his services without charge, was captain of his college team in Budapest, Hungary.



Action around the goal during one of the Water Polo Club's weekly meetings at the Alumni Swimming Pool. (Photo by Conrade Jaffee '63).

Water polo is a grueling synthesis of swimming, soccer and basketball. There are seven men on a team. Ball handling techniques include passing to teammates and dribbling—controlling the ball without use of the hands. Any player may grip the ball with one hand, but he then becomes fair game for the opposition. The goalie alone may use both hands without fear of bodily mayhem.

Conditioning is of more value than exceptional swimming ability, claims Club President Ron Finn '59. Finn emphasized the fact that the club is always open to new members. The squad scrimmages on Tues-

days, Thursdays and Saturdays.

Last year the club boasted a respectable 4-3 slate. A home weekend featuring two meets headlines the 1961 water polo season; MIT encounters Army and RPI on April 14 and 15 at Alumni pool.

Russia is known to have some three million judo students, and colleges (as well as law enforcement agencies) throughout the world have judo classes or clubs.

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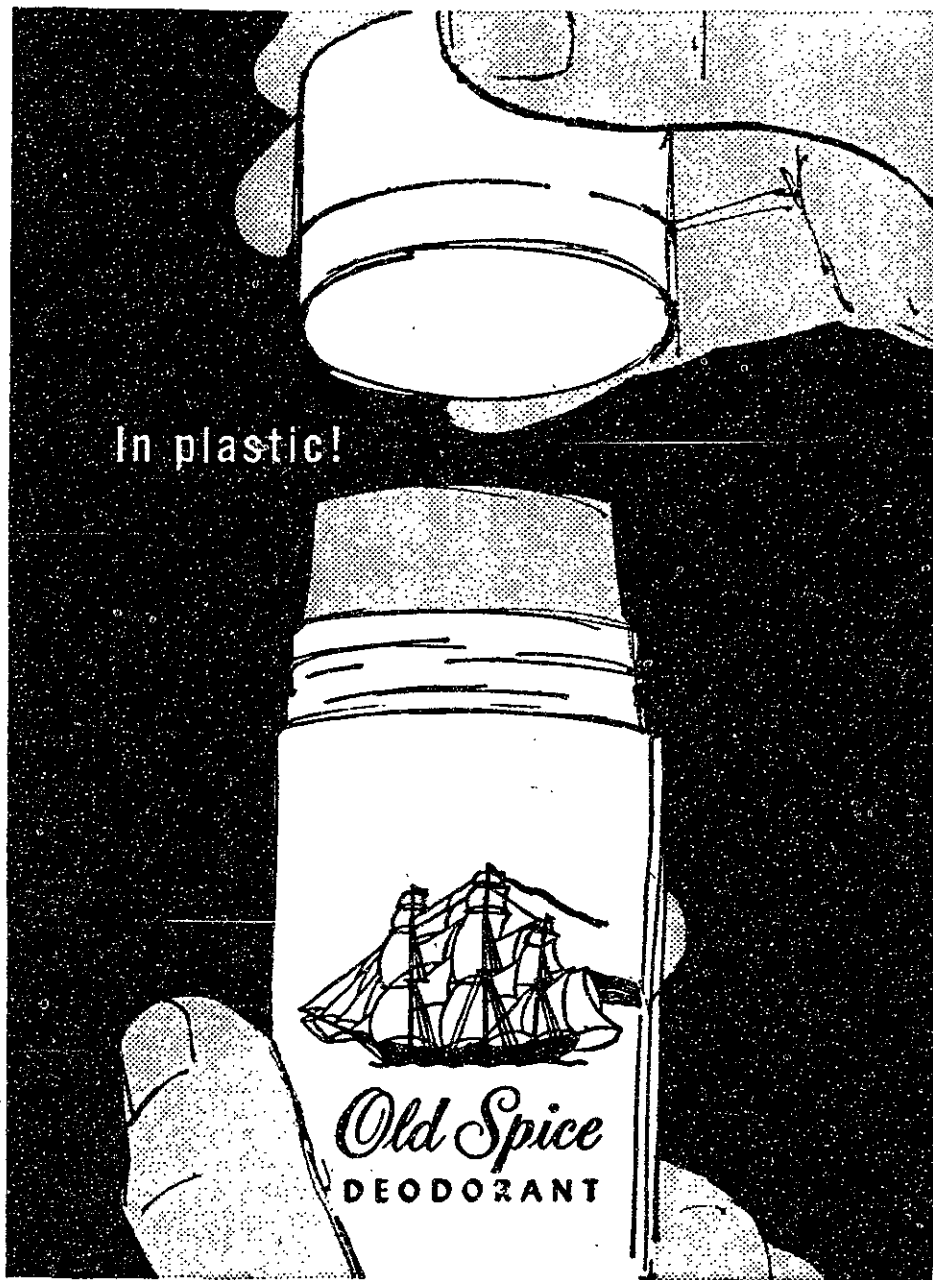
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TECHNOLOGY STORE

# MITNA Has Varied Program For Tech Sailors

By Warren McCandless '62

As the Sailing Pavilion enters its twenty-fifth season on the MIT scene, the Nautical Association is again planning a spring full of social events and good sailing for the MIT community. The Pavilion and NA represent one of the largest and foremost collegiate sailing organizations in the country. Traditionally one of the sailing powers in New England and the U.S., Tech long ago initiated intercollegiate sailing as we know it today in this area, signalling the beginning of the NEISA—the New England Intercollegiate Sailing Association.

### NA Plans Activities

The Nautical Association is one of the largest and busiest groups on campus. The student-run sailing organization under the enthusiastic and able leadership of sailing master Jack Wood, handles intercollegiate competition and sailing instruction, and coordinates all activities at the pavilion.

In the line of instruction, the NA has long been planning activities to develop the Techman's nautical abilities, from the inexperienced novice to the member of the varsity team. Everyone is invited to the Spring Shore School, which begins on Monday, April 10 and lasts into the next week. The first two classes will be lectures while the rest will take place on the water to give students the experience required for helmsman rating. Physical education classes will be available to the regular student body, giving a less hurried approach to sailing fundamentals. For sailors who have their

helmsman rating and wish advanced training, Coxswains and Boatswains will be happy to help on the weekends.

### Social Events Set

A great highlight of the NA spring schedule is Regatta Day, which is planned for Saturday, April 29. In this event all members of the MIT community will compete for the Voce, Carlton, and Hayden Trophies. Girls from several local colleges will also be sailing that day, and after the races a barbeque is planned, at which the trophies will be awarded.

The Bo'suns, a group of the more experienced sailors, who assist in the pavilion operations and round out the social atmosphere, have planned several events, including the annual moonlight sailing party and the harbor cruise.

### Sailing Team Starts Soon

Varsity sailors will be off to an early start, sailing for the McMillan Cup at Annapolis this weekend. MIT did not par-

ticipate in the event last year, but took third the season before. The races are sailed in 44 foot yawls which make the regatta not only beautiful to watch, but also a time for some rugged seamanship. Skippering will be Pete Gray '61, with Gary Helmig '62, Warren McCandless '62, and Walt Jackson '61 on the fore deck, and Don Nelson '61, Walt Bagdade '61, Jerry Milgram '61 in the cockpit. Bob Gray '64 will go as an alternate.

The following weekend the team returns for the Geiger Trophy on the Charles. There will be two Dinghy divisions, one 110 group and a division of Fireflies counting double. On the whole the sailing team is looking forward to another successful season filled with many active weekends.

### New Coach

The Tech fleet is in fine condition this year, due to the hard work of Jack Wood, Jerry Reed, and Joe Duplin. The last, a new addition to the sailing staff, is an experienced Star sailor and will assist Coach Wood in directing the Varsity this spring.

MIT's football team has a winning record against Tufts. They have won six, lost five, and tied two. They last met in 1900.



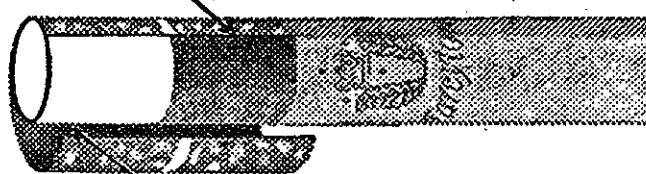
Three Tech sailors approach the buoy in old-type Dinghies, during an intrasquad practice race on the Charles.

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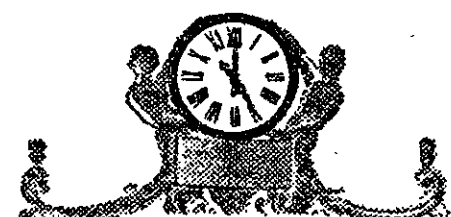


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