

The Frolicsome Beer-Ball Victors



Seen on the left is a joyous assemblage of *The Tech* members beginning the victory celebration of the Annual *Tech-Voo Doo Beer-Ball Game*. Amidst much shouting, cheering, and singing of communal workers songs, the sacred order of journalistic held their party before the blank walls and staring windows of Baker House, Sunday.

Appearing in the picture are (and these are the only ones who could still stand up), left to right, a can of Millers, the heroic figure of bouncing Dave Packer '59, the face on the bar room floor, a can of Bud, the smiling puss of zanny Glenn "Frank Buck" Zeiders '59, our even more heroic umpire Dean Fred Fassett who kept a close eye on consumption figures, another can of Bud, the twinkling eyes of "Darkroom" George Glenn '59, the shady look and suggestive smile of Steve "Wilson" Samuels '59, the contented afterglow features of "Wild Bill" Daly '58, and still another can of Bud, the reflective stare of "Make-up" Al Kniazzech '59, the seductive superstructure of Pat "Knife me, Mitzner" McGovern '59, a cooperative pose between a can of Millers and Miss Sarah "more bounce to the ounce" Sindel '60, the "casual look" of School Days Lenny Spar '60, the toasting F. John McElroy '59, the sophisticated swing of teammate Ruth Brown 'Knz, another Millers, Mickey Mouse Albert Velachaga '59, "Pedals" Allen Langord '??, and last but by no means least is the "Swash-buckling" gobbles of Happy Jack Friedman '57.

And now comes the surprise. Somewhere in this picture there is an African Tse-tse fly, Celyonese lumberman, sixteen delightful people, and four million corrosion marks. How many can you find? The winner of our contest will receive complete answers to the H 69 final—from *Voo Doo!*

The Tech

OFFICIAL NEWSPAPER OF THE UNDERGRADUATES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VOL. LXXVII NO. 25 CAMBRIDGE, MASSACHUSETTS, TUESDAY, MAY 21, 1957 5 CENTS

The Tech Victorious As Voo Doo Forfeits Game

A crowd gathered on Briggs field last Sunday and hundreds more watched from vantage points in Baker House as a mighty *The Tech Beer Ball* team trotted onto the diamond to take on their adversaries in what was to have been an exhibition of Beer Balling to top all Beer Balling—*The Tech-Voo Doo* match contest.

From the throats of the assembled multitude came a cry of anger and annoyance as the highly touted *Voo-Doo* squad failed to make its appearance as the time passed. Busily engaged in consuming beer as a warm-up procedure, the men of the rugged *Tech* squad proved themselves great crowd pleasers as they put on a fashionable display of how the great old game of Beer Ball is prepared for, with the excellent assistance of Chamberlain's Ruth Brown.

Time passed, and the annoyance spread to the men on the field. Could it be that the boys of *Voo Doo* were afraid to put in an appearance? Could it be that once again the *Voo Doo* boys had gone and shot off their mouths about how great they were and now faced with the situation of having to prove their abilities had chickened out? Or could it be that the poor little *Voo Doo* boys could not spare the time from their tooling, for fear they would lose .0000001 points on their finals?

Consult Students For Parking Aid

Students met with the Parking Development Company of Boston this week to express their views of the parking problem. Dick Brandes '57, chairman of the dissolved *Incomm* committee for parking, stated after the meeting, "This meeting was only of a general nature. Nothing specific was done. We just gave our views."

This meeting with the students is in line with a large scale program to contact all groups involved with the parking problem. According to Philip A. Stoddard '40 assistant treasurer, "People in West Gate, Grad House, and other groups will be contacted shortly, as will the deans and some other MIT personnel."

Report By Summer

"We hope to have the Commission's report by the end of the summer," continued Stoddard. "Of course," he added, "the time for the needed construction work cannot be estimated until the Commission's suggestions have been submitted."

Earlier Mr. William Fitzgerald, President of the Company, had stated that six months would probably be required to make any sort of parking solution work effectively. He also thought that the solution to the problem would be in the form of "live" attended parking lots where cars are parked bumper-to-bumper.

Lecture Filmed; Will Display Land's Theories

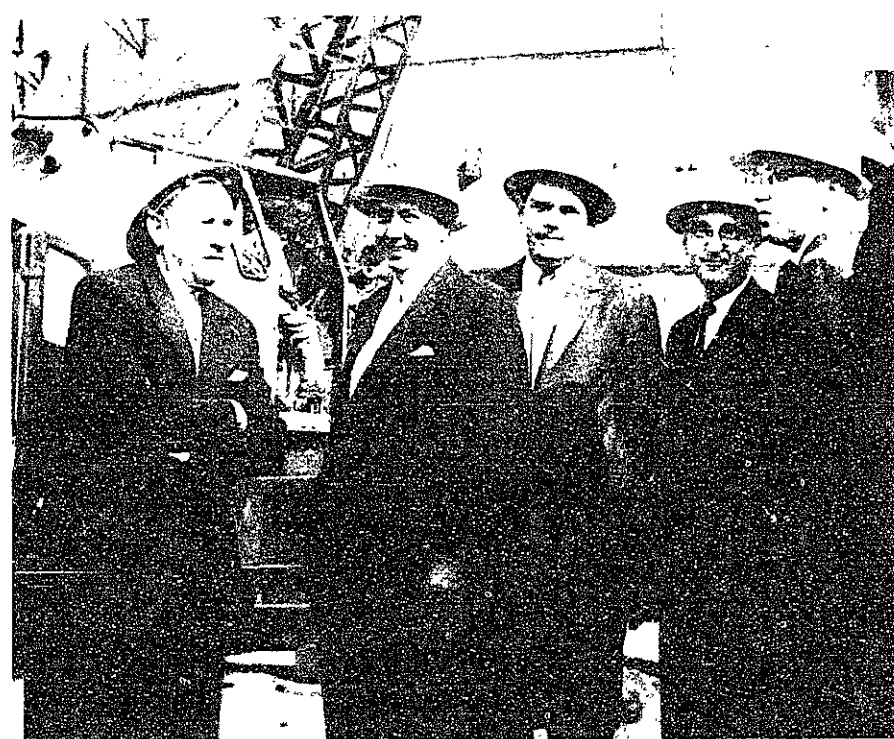
Movie crews filmed several lectures last week, including one in sophomore physics by Professor Hans Mueller. The films will probably be used by Dr. Edwin H. Land when he delivers the Ninth Arthur Dehon Little Memorial Lecture in Kresge Auditorium tomorrow night at 8:00 p.m. The lecture is free and open to all. In the lecture, entitled, "Generation of Greatness: The Idea of a University in an Age of Science," Dr. Land is expected to propose methods of re-vitalizing scientific and technical education. In conjunction with the films, he will advocate new departures in the use of filmed lectures and demonstrations.

Made Study of MIT
The ideas which Dr. Land will present are expected to be especially applicable to MIT. While preparing the lecture, he spent two weeks in residence here meeting with members of the faculty, administration and student body.

Dr. Land told *The Tech* that a typical problem which he will deal with is that of the faculty member's conflict between his research and his undergraduate teaching commitment. "Scholars," he said, "must always be in the forefront in their respective fields; but often this does not leave them adequate time to devote to their students." Dr. Land considers this a problem that every college must face, but it is most acute, he said, in a technical school.

Mueller Lecture
Professor Mueller has not lectured on a regular basis for two years. His topic, "scattering of light", was the regularly scheduled one in 8.041. It included several demonstrations involving the use of polaroid filters—a happy coincidence since Dr. Land, inventor of the Polaroid camera, is president of the Polaroid Corporation.

Governor Checks Reactor



Massachusetts' Governor Foster Furcolo views construction of the MIT nuclear reactor valued at over two million dollars. He visited the Institute last Friday to discuss atomic industrial developments with top MIT officials and nuclear engineers.

Tech Men Eat Slim On Thursday; Many Prefer Sleep To Breakfast

The Commons diners latest-rising weekday morning is Thursday; his earliest, Friday. This conclusion may be drawn from the Dining Service's Commons Meals figures for the week of May 10. These show that fewer breakfasts were served on Thursday than on any other day, while Friday had the largest number.

Other figures: Seventeen per cent of all commons diners were absent. The percentages for Baker and Walker are about the same. But there is a considerable difference between meals. While only eleven per cent missed lunch, more than 28 per cent did not eat breakfast.

Breakfast is served between 7:30

and 9:30. In the past, numerous complaints have been lodged by late-rising diners against the 9:30 cut-off time. It is widely felt that, if breakfast were served for an additional hour, a large portion of the twenty-eight per cent would eat the meals they feel they are entitled to.

Walker Commons diners may eat breakfast in Morss Hall, Burton House, or in the Graduate House.

The total number of Commons diners is 755. Of these, 419 do not live in Baker House where Commons is compulsory. The 419 comprise about one-third of the Burton House and East Campus population.

Final Issue

This is the last issue of *THE TECH* for the Spring term. The next issue will appear on September 18.

The Board of Directors and staff of *THE TECH* extend to the entire MIT Community best wishes for a fine summer and a pleasant finals week.

The Tech



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the kibitzer

NORTH

S—Q 8
 H—Q 8 6 5 2
 D—A K J
 C—A K Q

EAST

S—7 6
 H—J 9 7
 D—Q 9 3 2
 C—J 10 8 6

SOUTH

S—K 5 4
 H—A 3
 D—10 8 6 5
 C—9 7 5 2

The bidding: N E S W
 1H P 1NT P
 3NT P P P

Opening lead: Jack of Spades.

The novice bridge player is always amazed when he sees an expert discard a good ace or king while defending a hand in order that he may defeat the contract. The above hand is a good example that even a non-expert can indulge in if he is willing to concentrate a little.

The jack of spades is captured by North's queen; East plays the seven. South now leads a small heart to his ace. To beat the contract West must pitch his king! If West does not, he will be forced to win the second or third heart. With West in the lead, South has an additional spade stopper and since the hearts will set up with the play of the queen from the board, South has no more worries. West's only hope to defeat the contract is if East holds the jack of hearts with two little ones, and can get in and lead a spade through South's king in time. It is obvious that the declarer has the king of spades and does not have the ace of hearts. If East had the king of spades he would have played it on the first round; since he played the seven, South's king must still be protected. If South had the jack of hearts, he would have finessed hearts the first time he played them. If South holds three hearts, the contract can never be defeated, and West is only throwing away one trick.

If West pitches his king of hearts under the ace, South cannot make the contract. South can take eight tricks at most, one spade, two hearts, two diamonds, and three clubs, before he must let East in.

—Jerry Davis '56

calendar of events

WEDNESDAY, MAY 22

Reading Period—Biochemistry May 24.
 Biology Department—Biochemistry Division. Colloquium: "Enzymatic Mechanisms in the Synthesis of Glycinamide Ribotide." Standish C. Hartman (G). Tea will be served in Room 16-711 at 2:30 p.m.
ROOM 16-310, 3:00 p.m.
 Electrical Engineering Department. Colloquium: "Some Mathematical Experiments on Machines." Professor Stanislaw Ulam, Mathematics Department. Refreshments will be served in Room 10-280 at 4:30 p.m.
ROOM 10-250, 3:30 p.m.
 A. D. Little Lecture Committee. Arthur Dehon Little Memorial Lecture: "Generation of Greatness: The Idea of a University in an Age of Science." Dr. Edwin H. Land, President of Polaroid Corporation.
KRESGE AUDITORIUM, 8:00 p.m.

THURSDAY, MAY 23

Electrical Engineering Department. Seminar: "Electronic Processes in Solids." This is a continuing series of lectures by Dr. Pierre Aigrain, Professor of Physics at the Ecole Normale Supérieure, Paris, and Visiting Webster Professor of Electrical Engineering. The final lecture will be presented on Tuesday, May 28.
ROOM 10-275, 3:00-4:30 p.m.
 Freshman Outdoor Track Team. Meet with Moses Brown School.
BRIGGS FIELD, 3:30 p.m.
 Mathematics Department. Harvard-MIT. Joint Mathematics Colloquium: "Complex Analytic Coordinates on Almost Complex Manifolds." Professor Louis Nirenberg of New York University. Tea will be served in Room 2-290 at 4:00 p.m.
ROOM 2-390, 4:30 p.m.
 Staff Players of MIT. Final supper meeting of the season. Play reading of B. Thomas' "Charley's Aunt." Supper at the Faculty Club at 6:30 p.m. For reservations, call extension 862.
FACULTY CLUB PENTHOUSE, 8:00 p.m.
 Lowell Institute School. Graduation Exercises, with address by Mr. Frederick W. Argue, Engineering Vice President of Stone and Webster Engineering Corporation. Exercises also include an address by Professor J. P. Den Hartog and presentation of the Charles Francis Park Medal. Dr. Ralph Lowell, Trustee of the School, will award certificates. Dr. Arthur L. Townsend, Director, will preside.
HUNTINGTON HALL, 8:30 p.m.

SATURDAY, MAY 25

Examination period—May 25 through May 31.

TUESDAY, MAY 28

Seminar: "Electronic Processes in Solids." This is the last in a series of lectures by Dr. Pierre Aigrain, Professor of Physics at the Ecole Normale Supérieure, Paris, and Visiting Webster Professor of Electrical Engineering.
ROOM 10-275, 3:00-4:30 p.m.

WEDNESDAY, MAY 29

Mathematics Department. Continuum Mechanics Seminar: "Melting Near the Stagnation Point of a Body in a Hot Stream." Dr. Leonard Roberts, Mathematics Department.
ROOM 2-147, 4 p.m.

MONDAY, JUNE 3

Biology Department—Biochemistry Division. Harvard-MIT. Biochemistry Colloquium: "Uridine Nucleotides and Carbohydrate Metabolism." Dr. Luis F. Leloir, Director, Fundacion Campomar, Instituto de Investigaciones Bioquímicas, Buenos Aires, Argentina.
MALLINCKRODT MB-29, HARVARD, 8:00 p.m.

SENIOR WEEK

FRIDAY, MAY 31

Senior Class Banquet.
ROCKWELL CAGE, 6:30 p.m.

SATURDAY, JUNE 1

Senior Class Party: "Mystery Night."
BAKER HOUSE, 8:30 p.m.

SUNDAY, JUNE 2

Boston Pops Orchestra Concert.
SYMPHONY HALL, 8:00 p.m.

MONDAY, JUNE 3

Senior Class Moonlight Cruise.
ROWES WHARF, 7:45 p.m.

TUESDAY, JUNE 4

Annual Commencement Formal Ball.
THE SHERATON-PLAZA HOTEL, 8:00 p.m.

THURSDAY, JUNE 6

R.O.T.C. Joint Army and Air Force R.O.T.C. Commissioning Exercises.
KRESGE AUDITORIUM, 10:30 a.m.
 Baccalaureate Service. Baccalaureate Service, with address by Dr. George R. Harrison, Dean of the MIT School of Science.
KRESGE AUDITORIUM, 3:00 p.m.

FRIDAY, JUNE 7

Commencement. Graduation Exercises, with Commencement Address by Dr. John W. Gardner, President of the Carnegie Corporation of New York. Address to the Graduates by Dr. James R. Killian, Jr.
ROCKWELL CAGE, 10:30 a.m.
 Luncheon and Reception. Commencement Luncheon and President's Reception for Seniors and their guests. Luncheon tickets are \$2.50 per person.
DU PONT COURT, 1:00 p.m.

MONDAY, JUNE 10

Alumni Day Luncheon. Luncheon for alumni and guests; address by Dr. James R. Killian, Jr.
DU PONT COURT, 12:00 Noon
 Dedication. Dedication of Karl Taylor Compton Laboratories. Principal address by Dean George R. Harrison.
COMPTON LABORATORIES, 2:30 p.m.

CALENDAR OF EVENTS

This is the last issue of the Calendar of Events for the current academic year. Publication will be resumed in September.

GRASS!

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From Dorm Rooms To The Bottom Of The Charles: '56-'57

The Ryer Report A Bank Robber Political Tactics

Last December, the reader was treated to a seventy-five year panorama of MIT, as seen through the eyes of *The Tech*. This undertaking is one seventy-fifth as ambitious. To being with, we started fast . . . A joint committee consisting of students, faculty, administration, and alumni, spent over a year preparing the so-called Ryer Report on student housing. To belittle so much time and effort seemed disrespectful at least, and to many, sacrilege. But, on September 21, an editorial entitled "Much about nothing" said this:

"Chewing gum and bailing wire can never replace money and planning and for this reason the recommendations of the Ryer Committee will come as a great disappointment to many . . .

"Had they set a higher goal, they might have been able to buy a far better system for not too much more. But it must be mentioned that this is essentially a stopgap. Unfortunately the Institute is built on stopgap planning and probably always will be. We fear the Ryer Committee has paved a hundred miles of the road to hell with their good intentions."

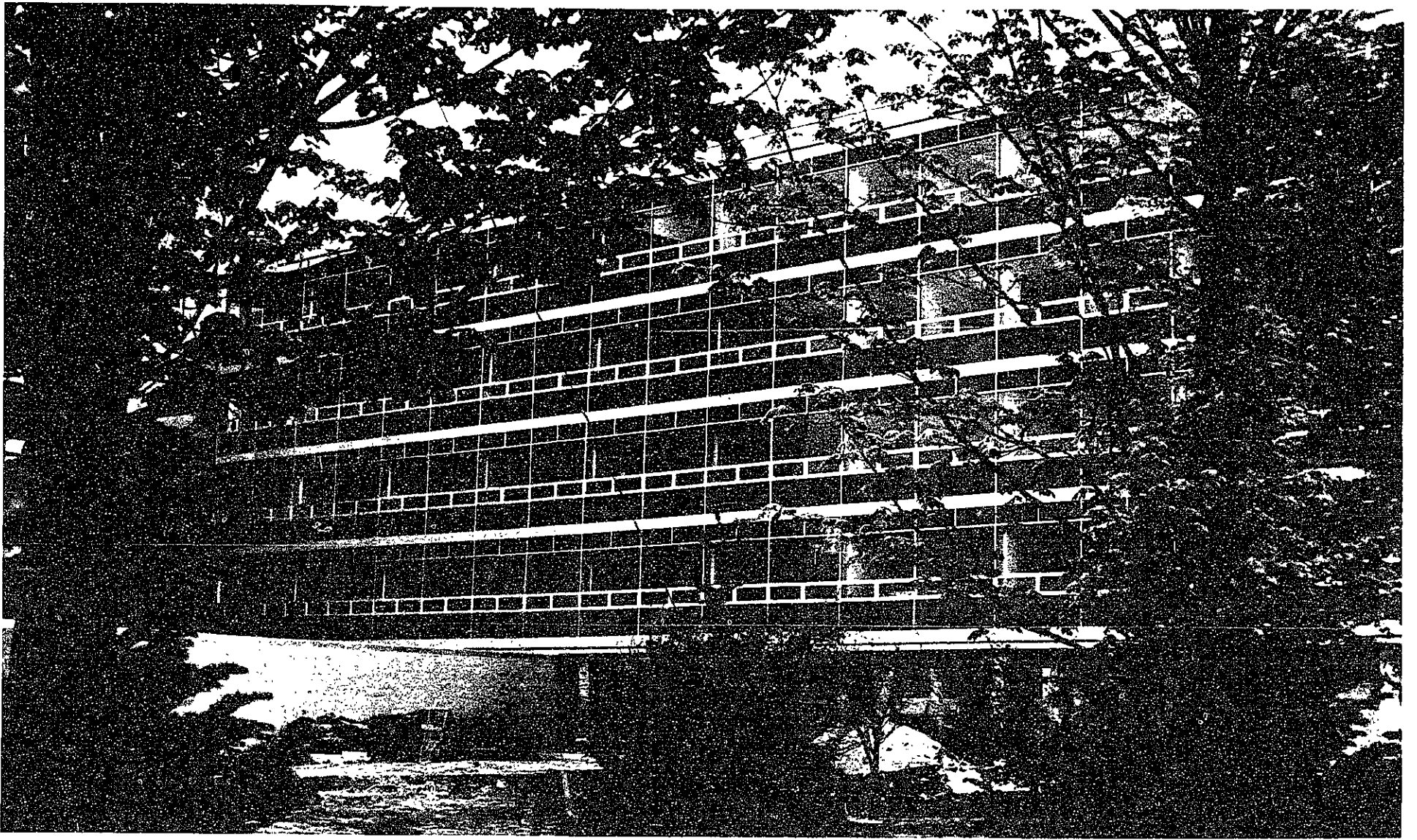
Academic Freedom

Dirk Struik, Professor of Mathematics and accused Communist conspirator, after five years of suspension from the faculty was reinstated (reported September 25), then censured (October 9). An editorial called the censure a case of "public relations" being "more important than principles." *The Tech*, since 1949, has consistently defended Dr. Struik's right to teach here.

President Killian was mentioned for Secretary of Defense—mentioned perhaps more strongly in *The Tech* (April 9) than anywhere else; but, that's journalism!

The world's acknowledged greatest physicist, Dr. Niels Bohr, will be here next November (reported May 7). Professor Weisskopf, a colleague of Dr. Bohr, would not dispute this ranking of him, but added, confidentially in an interview: "He doesn't know much math . . . his contributions have been so fundamental that he doesn't need it."

Robert Wagner became notorious when, just before entering as a freshman last fall, he robbed a bank. Perhaps a generation's time will make



The Karl Taylor Compton Laboratories

this incident a part of the MIT folklore, but now there is the disconcerting fact that Wagner must spend the next six years in jail (reported April 16).

Scientists and engineers here have made transistors look elephantine (February 8), and previously recorded cosmic ray showers look Lilliputian (April 12). They made penicillin a matter of chemistry (March 8) and global missile guidance a matter of physics (April 16).

Hydrogen Bombs

When Adlai Stevenson made hydrogen bomb tests a campaign issue last fall, scientists found themselves inescapably linked with politics. On October 23, this report:

"Seven MIT physicists have joined together in a statement supporting Adlai Stevenson's proposal for ending hydrogen bomb tests. Their action, which took the form of an open letter . . . is the second public expression of support for a ban by members of the Institute, coming several days after a radio appearance by two

other physicists . . ."

Two months later, *The Tech* itself became inescapably linked with politics in another sphere. F. Helmut Weymar '58 resigned as News Editor to run for Undergraduate Association President. When *The Tech* printed an announcement of his candidacy, there were charges of unfair publicity. But Weymar and his one opponent, Arnie Amstutz '58, received equal space. (Actually Amstutz received more: he played his own campaign jingles on his WTBS "Nite Owl" radio program and was put off the air by the station manager. This incident was headlined, on February 12: "Unauthorized Spots for Amstutz—Coryell Hushed on WTBS.")

But, alas, Weymar lost.

Hungarian Students

A slight young man with piercing eyes; a Hungarian student using the assumed name Laszlo Istvan set off a sympathetic reaction here which made MIT one of the leading agitators for Hungarian freedom in collegiate America. Istvan had just es-

caped from Hungary, and was touring college campuses to enlist moral and financial support. His MIT speech, the first major college speech of the tour, was reported on November 16. Later issues told of petitions, signed by more than six hundred students, sent to congressional leaders, and of ten full scholarships pledged jointly by student living groups and by the Institute.

The Reamer

The Tech observed April Fool's Day in traditional fashion. Although dorm men could get their copy of *The Daily Reamer* free, more than twelve hundred additional copies were sold by noon. It is reliably reported that a certain Physics lecturer walked into room 10-250, faced a sea of Reamer-covered faces, and turned pale when he read the black banner headline: "Killian Arrested in Riot." However, when he looked closer and read another caption: "Mad Machine Puts Perpetual Motion On Map," he caught on.

Anything can happen. *The Daily*

Reamer waggishly told of the Institute "purchase of one square mile of Charles River basin bottom" to be filled in to make a parking lot for "some 1,037,421 cars". Of course, sailing would have to be sacrificed.

But just two weeks later, Tech sailors had reason to quake in their topsiders. The headline in the April 16 paper read: "Cambridge Realtor Buys River Bottom". His purpose: industrial development (or is it speculation?)

Nothing has thus far been said about the parking problem, about the All-Tech Basketball Game, about Commons meals, or about the lamented end of Field Day. Also nothing has been said about hazing and about the March riots; for these two topics, see page five.

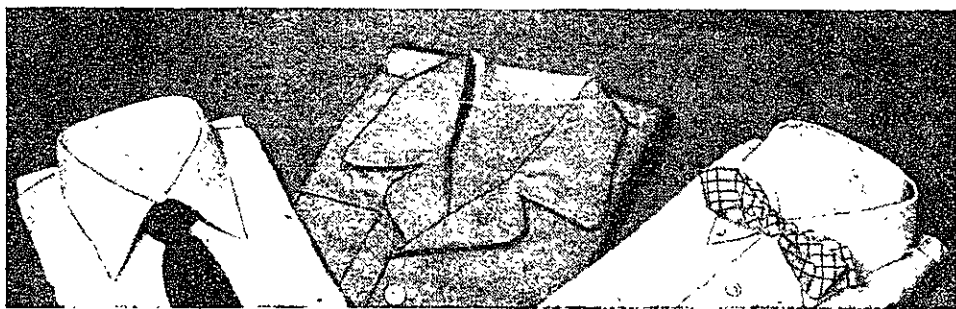
Saddest of all, very little has been said about real honest-to-goodness education. In the great 1956-1957 struggle between students and "Administration" and between students and "Student Government", has education kept pace?

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Chemistry Department More Flexible; Aero Men Offered Guidance And Missiles

Extensive changes in curriculum are being planned by many departments for the coming year. In an effort to dispel the impression that course 10 is "rigid", with few electives offered during the undergraduate years, the Chemical Engineering Department is revising its section in the catalogue to emphasize the flexibility of the program. Among the curriculum changes planned for next year is the substitution of systematic courses in inorganic chemistry to replace 5.11, "Qualitative analysis" and 5.12, "Quantitative Analysis." Course 10.11, "Chemical Engineering", will be taught in the second term of the Sophomore year instead of the first term, and its content will be changed considerably. Courses 10-28 and 10-18 will be taught in the first term of the third year. 10-29 will come in the second term. The biggest change, however, involves changing Organic Chemistry to the Sophomore year. This will come about slowly due to crowded conditions in the labs, however, and it may be several years before the change is completed.

New Aero Courses

The Aeronautical Engineering Department has several new courses for Undergraduates next year. Among new courses is "Missile Aerodynamics", "Inertial Guidance", and "Orbital Vehicles." Dr. Howard Emmons will replace Dr. I. E. Gerrick as the "Gerome Clark Hunsaker" lecturer.

Course XIV Changes

The department of Economics and Social Studies has one new undergraduate course for next year entitled "Learning." There are also three Grad courses, "Politics and National Defense Policy", "National Security and Military Technology", and "Labor Movement."

Fulbright's Increase By Three To MIT; Go To Paris, Berlin

Three more MIT students received Fulbright awards this week to study abroad in 1957-58: Jerome B. Cohen of Brooklyn, to study metallurgy at the University of Paris; Warren George Nelson of Wantagh, New York, to study fluid mechanics at George August University in Goettingen, Germany; Charles D. Russell of El Dorado, Arkansas, to study physical chemistry at Technical University, Berlin.

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THURSDAY
May 23, 1957
at 8:00 P.M.

Under the auspices of
First Church of Christ, Scientist
Cambridge, Massachusetts
at
KRESGE AUDITORIUM, M.I.T.
Memorial Drive & Mass. Ave.
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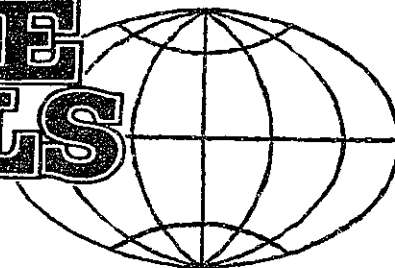
Twenty-one sculptures by Ibram Lassaw, who works with wire and a welding torch instead of clay or stone, are now on exhibit in the library art gallery. The exhibition will remain through June 16.

From Rockefeller Collection
One of the works, "Pillar of Cloud,"

was done on commission for Temple Beth-El in Providence. (The sculptor executed a 28-foot "Pillar of Fire" for Congregation Beth-El in Springfield, Mass.) Another, "Nebula in Orion," is from the collection of Mrs. John D. Rockefeller III and another, "Alcor," belongs to Mrs. Laurance Rockefeller.

OLD GOLD ANNOUNCES

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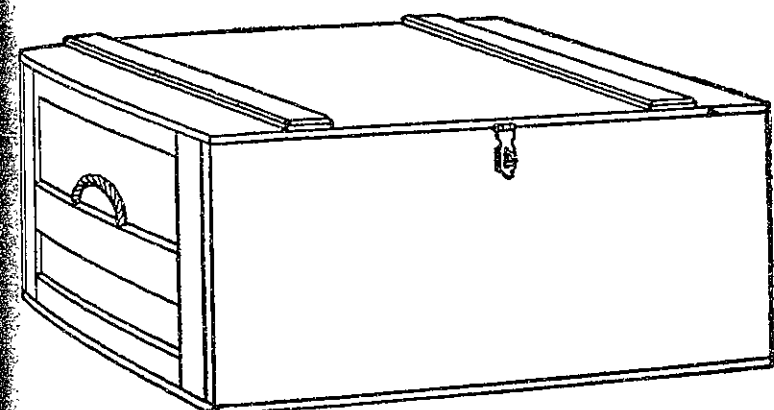
Traditions' Face Police, Stiff Raps; The Call To 'Riot' Leads To Jail

The MIT student who utters the word "riot" above a whisper now-a-days is doomed. This word became strictly taboo as of March 3 this year. On that Saturday night 38 Tech men and one Yale student were arrested for various offenses, including "inciting a riot". *The Tech*, while offering one of its reporters to the MDC, gave a play-by-play description of the demonstration under the by-line of Linda Greiner '60.

Her description went, "Waving home-made posters declaring 'we protest' and 'lower rent' the students milled about in front of Dean Fassett's home shooting off occasional firecrackers and tossing snowballs. The appearance of a paddy wagon on the scene added to the general confusion. Each new paddy wagon was greeted with loud cheers and shouts of 'Let's all go to jail!'" And so, many of them did.

Dean Rule afterwards stated, "The Institute deplors and apologizes for recent riotous actions by some of its students." The Dean's statement also included a remark which every Tech man must soberly think about, "Henceforth, the presence of a student at a riotous or unauthorized demonstration will be considered *prima facie* evidence of his participation and probable grounds for his expulsion."

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Amidst all the clamor and claims, many students forgot the original grounds for demonstrating—the Commons food in Baker House and the raise in dorm and Commons fees. Stouffer's, an outside caterer, finally arrived at Baker in April after two memorable mass boycotts. The objection to the raise in room and meal fees seems to have died for lack of a second.

After the first wave of excitement, came the trial in the Third District Court. While a judge listened to the evidence, a student Judicial Committee did likewise, and the Deans hoped that the task of punishment would be kept within the Institute. But the students and the Deans got a shock. On March 15, when the court handed down its ruling of guilty to twenty-one of the rioters. "Judge Viola made his decision at 10:30 a.m. after hearing the pleas for the defense and for the prosecution. He said he 'was convinced that a riot, in the legal sense, was in progress'."

The Institute lawyers did not stop here. They took the students' cases to the Superior Court and, just one week ago, *The Tech* reported that the twenty-three students had their convictions set aside.

The pre-spring riots caused much confusion around the Institute for many weeks. They also left a slight scar on the student body in the eyes of many who read the articles written about the riots by outside newspapers.

TCA BOOK EXCHANGE

Big money awaits students who turn in un-needed texts to the TCA Book Exchange on the second floor of Walker Memorial. Freshman texts are especially needed.

At The March 2-3 Demonstrations



Traditions Face Decrees: Gone Are Hazing, Field Day

This year, Institute Committee dealt with a red-herring which it had inherited from last year's Incomm—the hazing issue. On May 3, after an entire year of debating and discussing, Incomm ruled that "hazing shall be no more."

The first indication that hazing would again be a problem came from the sophomores of East Campus. On October 16 *The Tech* read, "Over one hundred East Campus freshman residents were painted, depantsed, or both as a band of seventeen sophomores entered their rooms early Sunday morning."

The hazing, however, was hardly one-sided. That same issue also covered another story, "Dennis Lytle, vice-president of the Class of '59 participated in a sort of student exchange plan with RPI last Friday, with Lytle going to RPI and the Rensselaer sophomore president coming to MIT. The whole thing was the idea of a group of freshmen at each school."

After several Judcomm investigations the matter was dropped. It was then that the constructive ideas about freshman orientation came in. Incomm formed a special committee headed by Harry Flagg '57. This com-

mittee served under two Incomms and its reports were endorsed by both Institute Committees.

Flagg's report was made on April 5, after which he commented, "The best thing to fill the vacuum left by the hazing ban is a well-worked-out orientation program designed to make the incoming student feel at home." The plan is now being worked out by a special Incomm committee.

The biggest revolution in Freshman-Sophomore rivalry came on April 30, when the lead story of *The Tech* read, "Student Leaders and, in fact, the whole student body appeared to be taken by surprise by the Athletic Association's actions ending four Field Day sports."

The Athletic Association supported their move by citing two difficulties with Field Day Sports: first, they said, the hasty Field Day training makes some athletes develop unbreakable habits; and second, participation in Field Day Sports has been spotty.

The question is far from being a dead issue. In the last Institute Committee meeting of this year a motion was adopted to have the A.A. review their ruling. Where this will lead to one can know until next year.



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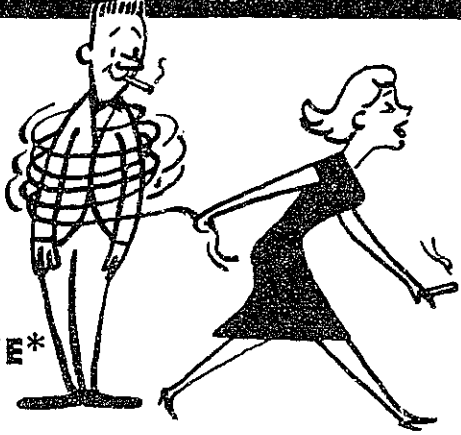
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Classical music is preferred over popular music by college men

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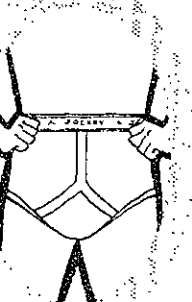
False. Popular music is more popular on campus, according to record sales. After college, too.



College men prefer to date college gals

TRUE FALSE

True. Only in isolated colleges where no women's colleges are near do college men turn to the town gals.



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MIT Athletic Teams Wind Up Spring Season As Exams Close In

Twelve New Tennis Courts To Be Placed On Briggs Field; DuPont Plant Seen Soon

The view of Briggs Field from Baker and Burton Houses will be altered next fall by the addition of twelve new tennis courts. These courts are part of the overall renovation plan for the athletic playing areas of MIT. Specifically, the courts come from the financial resources of the David duPont million dollar bequest last year.

The duPont family have indicated that their late son was especially interested in tennis and that it was his wish to implement the tennis facilities of MIT. The construction of the courts will begin during the summer and they should be finished by the fall term, according to AA president Dan Holland '58.

The planning map at the bottom of the page shows the projected arrangement of the Briggs Field area, once the Westgate area has been demolished. Westgate has been condemned as a living unit by the City of Cambridge. They have issued a statement that the area should be cleared of homes by three years from this year, and it is expected that the job will not be finally completed until that time.

Not included on the drawing is the new duPont building which will consume the rest of the million that was received for athletic purposes. This facility will be adjacent to the armory, and the proposed Student Union which is to be located close to Kresge. The construction of the duPont plant is also contingent upon the purchase of the Commonwealth Armory, which presently rests upon the passage of a bill in the State of Massachusetts Legislature. The bill would mean that Massachusetts State accepts the financial offer made by MIT, and that they agree to transfer ownership of the building.

If the armory purchase is completed before the beginning of next term, the castle-like structure will be used for intramural sports immediately, and will later be converted to student activity and athletic team participation areas.

The duPont building will be connected physically to the armory and will include among its many rooms a gym that can be converted to a dormitory for visiting teams, a faculty locker room, the offices of the Athletic Association, the Director of Athletics, the intercollegiate managers, and the coaches. The second floor of the building will house a wrestling room and possibly fencing facilities, while the front will add five squash courts to Tech's total.

The entire project will be completed in steps, and it should be about five years before the total plan is finished.

The MIT varsity track squad raced an unsuccessful close against Northeastern on Briggs Field Saturday. The final tally was 86-49, in the boys' favor. Coach Hedlund's boys were able to take firsts in the 440-yard dash, the hammer throw, the discus, and the pole vault. It was Murdock in first position at the tape in the 440 for Tech with teammate Bennett right on his heels for a second. Murdock also took a second in the 220-yard run while Williamson and Maiser took third and second respectively in the 100-yard dash.

Hoyt took the hammer event for Tech, Peipine successful to the same count in the discus, and Dieselman in the pole vault.

The freshman team had a better day as they took the Northeastern Frosh on and gave them a sound 92-33 trouncing. The Freshmen were strongest in the mile run, the 12-lb. shot, the hammer throw, and the pole vault, in which events they completely swept. They also gained firsts in the 220-yard dash, the 120 high hurdles, the 220 high hurdles, the discus, and the javelin. One of the stars for the Frosh was Lucas who not only took first in the 100-yard dash, but also captured the top position in the broad jump.

MIT was defeated by a 49-86 count.

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Widnall 2nd In Sailing Individuals; Tech Team Goes To Championships

MIT team captain Bill Widnall '59 placed second in the New England single-handed championship on the Charles River last Sunday. Walley Everest, a sophomore from Boston University, claimed the title beating Widnall by only four points.

At the end of the nine race series, there was only an eighteen point spread between first and last place. Slawewski, doing very well in the early races, dropped in the final rounds into sixth place. Widnall had a costly foul in the third race and was unable to gain back the lead but fought into second in the last two races.

The single-handed championships marked the end of an unusually successful racing season for the engineers. Of the eight major regattas entered this spring, Tech walked off with four firsts, two seconds, a third and a fifth. This means that the sailors were beaten by only eight competitors while in the meantime they themselves defeated fifty-six colleges for a seasonal record of better than .850.

Bill Stiles '57 and Bill Widnall '59 won three of the regattas. Racing the best of the colleges from three associations, Stiles and Widnall first won the Boston Dinghy Club Cup, the oldest trophy in intercollegiate racing. On they sailed to capture the eliminations for the New England championships by a wide margin. The finals were a tough fight, but Tech emerged victorious, beating the nearest competitor by ten points, thus bringing the Coast Guard Bowl back to MIT.

Winicour And Moss Represent MIT In NE Tennis Tourney

Not a major event, but a satisfying win for the whole team, was the Tech-Harvard team race. Stiles, Widnall, Posey, Slawewski, plus Will Johnson '59 and Steve Strong '57 were too formidable a fleet for the six best skippers from Harvard. Promptly handed a 3-0 defeat, they were sent home once again empty handed. Although the racing season is officially closed, Tech's toughest battle lies ahead—the national championships at Annapolis during June. The toughest competition in the eight college fleet of national finalists will probably come from the midshipmen and from Tech's own New England neighbor Boston University. The Navy nosed out Tech for first place in both the Owen Trophy regatta and in the Navy Spring Invitational this season. B. U. is always a threat especially in light air.

With the playing of the New England Intercollegiate Lawn Tennis Association Tournament the past week-end, the tennis season at MIT has officially come to a close. Jeff Winicour and Pete Moss, both sophomores, represented Tech in the tournament played at Trinity. With fifty-seven players from thirteen schools entered, the going proved rough, and they suffered defeat in the first round. Both in singles and doubles, the losses were in straight sets, but both gained valuable experience, and will no doubt return during the next two years. It was a disappointing first season for Coach Crocker, during which MIT won only one game, but several of the losses were very close, and most of the squad was inexperienced. Six of the eight-man team will return next year, including captain Dick Hough '58, Jim Barber '58, Bob Kenefick '59, and Cris Kang '59, as well as Winicour and Moss. The two graduating seniors are this year's captain John Pease and Boyd Givan.

Northeastern Tops Tech Cindermen

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FALL.



An architect's drawing of the proposed playing fields for Tech, after the demolition of Westgate and Westgate West. The completed arrangement should be finished in another five years.

bushleaguer

SAE, Grads, TEP Battle In Final

Only three teams remain in the softball picture as the finals of playoff competition commence. Grad House A team with an unbeaten record to date looks like an almost sure winner as TEP Club and Sigma Phi Epsilon, both with single losses meet for the right to oppose the Grads. The winner of the TEP-Sig Ep game would have to take two in a row from Grad House to become champ, and this appears almost impossible.

However, the Grads are in jeopardy of losing their record because of the alleged playing of an ineligible person during one of their season contests. If the intramural council rules such is the case, the winner of the TEP-Sigma Phi Epsilon game will be declared the 1957 Intramural Softball Champion.

Playoff competition began on Friday, May 10 when Phi Gamma Delta eked out a 13-12 victory over Phi Delta Theta. TEP Club whipped SAE in a

wild contest that was finished in rain and darkness by a 7-3 count, while Sigma Phi Epsilon was upset by the Grad House B squad 6-4.

On Monday the 13 play continued as Grad House A overwhelmed Theta Chi 25-4. TEP walked all over Grad House B 11-1, and the Sig Eps recovered to smash SAE 8-2, thereby eliminating the sailors who suffered their second straight defeat.

Rain cancelled play on Tuesday, but on Wednesday Grad House A returned to action and promptly whipped the Phi Gams 8-5. The Grads trailed by 5-1 at one time but they rallied to overcome this deficit and take the ballgame.

A full slate of games was played Thursday and saw Grad House A squeeze by TEP Club in the most crucial game of the series, 1-0. The winning run, scored on an error, robbed ace TEP pitcher Murray Muraskin of an unblemished record. Phi Gamma Delta and Phi Delta Theta were both eliminated on this day as they fell by almost identical scores, 14-0 and 14-1 to the Sig Eps and Grad House B respectively. The Fijis and the Phi Deltas finished in a tie for 5 and 6 with 1-2 won-lost marks.

On Saturday only one game was played, and it marked the final appearance of the Grad House B team, as they lost to the Sig Eps 10-2. This placed Grad House B in fourth place with a 2-2 mark.

This brings us up to the present. Monday Bev Goodison will attempt to pitch his Sigma Phi Epsilon team to victory over an equally strong TEP Club led by the aforementioned Murray Muraskin. The winner takes on Graduate House A with the prospect of a single loss eliminating them.

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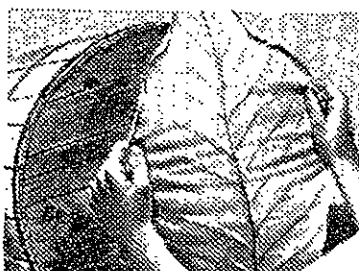
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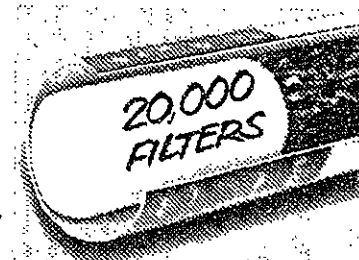
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Tech Lacrossers Top Middlebury, Goalie Marks Shines In 10-9 Win

Playing their closest game of the season, the varsity lacrosse team edged Middlebury 10-9, on the loser's field last Saturday. The Beavers were sparked by the brilliant goaltending of Darrel Marks '59, and the offensive play of Mike Warner '58, Jim Russell '59, and Chuck Fitzgerald '59, each of whom tallied twice during the encounter.

MIT registered the first score of the game with only two minutes gone in the opening quarter, when Fitzgerald outmaneuvered the home squad's goalie, to notch the first of his two goals. Middlebury tied it up moments later, but when Comerford '59 put the Engineers ahead soon afterward. Then the Techmen were buried under a powerful assault by their opponents that netted them three goals. This ended the scoring in the initial period, and left the visitors behind 4-2.

The next stanza proved to be radically different, as Coach Ben Martin's charges blasted holes in the enemy defenses to register four straight goals. Russell paced this drive with two tallies, while the other pair were added by Hasselman '57 and Dick File '57. The home squad came back with one more goal on the half ended with the visitors holding a one-goal edge.

The teams returned from their breather with more spirit than was displayed in the previous half. This was evidenced in the faster play and the fact that seven goals were counted in the third quarter. It opened up with the Middlebury men notching a pair of scores to put them in the lead 7-6. Warner then shattered the hopes of the home team by holding the Beavers offense, when he registered twice without assistance. The Engineers didn't hold the lead for long, as moments later the score was made 8-8. Fitzgerald tallied the Techmen's third marker of the period, and with only a few minutes remaining, Co-Captain Dick Childs '57 poured in what proved to be the winning goal.



Tech takes long stretch to success as our first baseman tugs the cowhide into his glove just a stride before the dashing Northeastern player could touch the bag. Northeastern took the match, however, by 8-1.

The Middlebury contingent countered after two minutes had transpired in the final session, then for thirteen long minutes the Beaver defense clung to their one goal lead.

Prospects look good for next season as only five lettermen are graduating this June. Coach Ben Martin should have no trouble bettering this spring's record of two wins and eight reverses.

Boston All-Star



Tech's man on the Greater Boston Collegiate League All-Star squad is outfielder Chuck Speer '57. Chuck is a major in Business Administration and as a converted pitcher he batted .350 in his first full season on the varsity nine.

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What a MATHEMATICIAN can do at IBM

Mathematics is an ancient but ever-advancing science that contains many forms. It shouldn't surprise you then that it took some time before John Jackson discovered the one brand of mathematics that seemed custom-tailored to his ability and temperament. John is an Applied Science Representative, working out of the IBM office at 122 East 42nd Street, N. Y. C.

First of all, what's it all about? What does a fellow like John Jackson do all day? In his own words, "I keep in touch with the executives of many different companies—advising them on the use of their IBM electronic data processing computers. I personally consult with these customers, and analyze their scientific and technical problems for solution by IBM. Occasionally, I'm asked to write papers, and give talks and demonstrations on electronic computing. All in all, it's pretty fascinating . . . something new pops up every day." In other words, John is a full-fledged computing expert, a consultant . . . and a very important person in this

The aircraft people decided that they couldn't afford to wait that long, so they called in IBM. After discussion with top executives, John helped to map out a computer program that saved the organization over 100 days



Mapping out a computer program

mathematical background in both of those areas. It was not until he was interviewed by IBM that field computing whetted his scientific appetite. A few months later, John launched his own IBM career as an Applied Science trainee.

Promotionwise, John has come a long way since that time. He's now an Applied Science Representative in one of the busiest, most responsible offices in the IBM organization . . . mid-town Manhattan.

With his wife, Katherine, and daughter, Lisa, 20 months, and John,



Discussing a problem with colleagues



Calling on a customer

coming age of automation through electronics.

Since the IBM laboratories are always devising easier and faster ways to solve the problems of science, government, and industry, an Applied Science Representative can never say he's learned his job and that's the end of it. At least once every two months, he attends seminars to be updated on the latest developments in engineering and operations research.

Introduces new methods

During the two years that John has spent with IBM in Applied Science, he has guided innumerable IBM customers to new and better ways of doing things electronically. For example: about a year ago, a leading aircraft manufacturer wanted to experiment with a radically different design for a nuclear reactor. Although the basic format had been established, the project still required many months of toil with mathematical equations.

of pencil-chewing, nail-biting arithmetic. Later, for this same company, John organized the establishment of computer systems for aircraft performance predictions . . . for data reduction of wind tunnel tests . . . and for wing stress analysis. At the same time, he worked with this company's own employees, training them in the use of IBM equipment. John still drops around to see that everything is running smoothly.

Another service that John performs is the constant reappraisal of each customer's IBM operation. Occasionally, a customer may tie himself in knots over a procedural "stickler." Periodically, in fact, John brings IBM customers together . . . just to talk over what's happening in each other's business—how everybody else handled that old bugaboo in any industry . . . details.

New field for Mathematicians

John is exercising his mathematical know-how in a field that was practically unheard of ten years ago. Even now, this kind of work may be news to you. It was to John Jackson a few years back when he was an undergraduate at the University of Colorado. At that time, he was considering actuarial work or mathematical research. But John liked the excitement and diversification of science and industry and he wanted to use his

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SAFE AS COFFEE

N. Y. Rugby Club Defeats Tech By Slim Three Points

The MIT Rugbys took to the field Saturday against a contingent from New York who called themselves the New York Rugby Club. The contest was well fought on both sides, the oval was well bounced by aggressive toe action, and the end zone was often threatened in the affair that found the Tech team down by a 6-3 count at the final gun.

New York playing with several experienced players from foreign lands where Rugby is nearly a national sport, had a considerable edge in personnel, but Tech showed good teamwork in their narrow defeat. It was the last game of a rather successful season for the Rugbys, which found them traveling everywhere from Amherst to Stanford in their tour of athletic accomplishments.

Throughout the recent season the Rugby team has been handicapped by the lack of their traditional beverage—beer, during the vicious action of the afternoon by the new AA ruling forbidding the consumption of alcoholic beverages on a playing field of MIT while that person is participating in an athletic contest. Normally, the team would enjoy a few draughts from the keg during and after the play to spice up their congenial spirits, and spruce up their playing stamina. However, the ruling did not seem to affect their team's results as they turned in one of the best records of the last few years.

Lights Fifth In Collegiates

The lightweight crews of MIT invaded the waters of the Naval Academy at Annapolis last weekend, and brought home a fifth place in the Eastern Collegiate Division. The competition was among the best in the country as teams like Princeton, Harvard, Dartmouth, Navy and Columbia raced for the prizes.

The race went to Princeton in a straight away fashion as the water was especially calm, and there was only a hint of a breeze in the Maryland air. The Elis were followed by Dartmouth, Harvard, Navy, MIT, Columbia, Pennsylvania, Yale, and Cornell.

THE MIT BOATINGS: VARSITY

MIT—Daniel Thomas, bow; 2. Melvin Platte; 3. Dennis Humphrey; 4. James Moron; 5. Gregory Lazarchik; 6. Keith Maas; 7. Peter Heilsten; stroke, Rodney Rogers; coxswain, Allen Philippe.

JUNIOR VARSITY

MIT—Franklin Farrow, bow; 2. James Jeffries; 3. Joel Parks; 4. James Simpson; 5. Robert Root; 6. James Zachor; 7. Leonard Fleischer; stroke, Paul Bruce; coxswain, Arnold Olshoker.

FRESHMAN

MIT—Monroe Chapman, bow; 2. John Herget; 3. Walter Cheever; 4. Monroe Bernold; 5. Ronald Novak; 6. Frederick Kinch; 7. Basil Alferieff; stroke, Robert Stoeckly; coxswain, Griff Anderson.



The Tech Rugbys and the New York Rugby Club members pursue the leather oval down the grassy turf of Briggs. Saturday's contest between the two produced a 6-3 win for New York.

Beaver Nine Drops A Pair Varsity Has Still Only One Win

Tech's ill-fated baseball team recorded a set of losses over the past week-end to bring its season's statistics to 1-17, one of the worst records in major league history. The Beavers were the victims of W.P.I. by a 10-3 score on Saturday and of Northeastern by a milder 8-1 tab on Friday.

In the W.P.I. game Larry Jones '59 continued to be the one bright spot on the team as he had two for five and included a double in his attempts at the plate. The hurlers for Tech were Bressler to start, followed by Hendrick, Welsh, and Curran.

The Northeastern game saw Jones bat a dynamic three for three, as the team had a good early inning. Defensively, they started Lyons on the mound, who was promptly followed by Al Beard and Blany. But the powerful bats of the Huntington Avenue proved too much for the rosen-men as the sticked cow flew all over the field, and caused no end of difficulty for the fielders, and the errors multiplied with every swing of the club.

Fortunately, the varsity has only one game remaining during the season, and that is a return match against the Northeastern squad. Here is their last chance to seek revenge against the injuries of their pride.

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(SEE PARAGRAPH BELOW)

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WHAT'S A HOSPITAL FOR PESSIMISTS?
Cynic Clinic
BEVERLY DREISOW,
WASHINGTON STATE

LUCKY STRIKE
CIGARETTES

WHAT'S A GANGSTER'S EMBRACE?
Thug Hug
JOHN WATKINS
W. VIRGINIA U.

WHAT IS A SINGER FROM OKLAHOMA?
Sooner Crooner
LARRY GAY,
HARVARD

The Tech



OFFICIAL NEWSPAPER OF THE UNDERGRADUATES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

FRESHMEN ISSUE

CAMBRIDGE MASSACHUSETTS, FRIDAY SEPTEMBER 20, 1957

GRATIS

MIT Welcomes 900 - Strong Class Of '61



The IFC Clearing House at the height of Rush Week

Institute Holds Class Size Down

An alert Admissions Office has finally succeeded, this year, in restraining the size of the freshman class to a manageable 900, thereby minimizing the perennial student housing problem.

Actual figures released by the Admissions Office late Wednesday indicated that the Class of '61 includes 847 entrants from secondary schools in the United States and abroad, and about 50 transfer and re-entry students.

But, despite the unusually small size of the freshman class, the number of students up for Rush Week was phenomenally high. A total of 606 were on hand, of which less than half, about 290, have pledged. The number of pledges represents a ten per cent increase over the total at this time last year—when barely 500 students were here for Rush Week.

(Among the upper-class and graduate entrants are seventeen who left Hungary during the uprising last year. Four of these are recipients of scholarships which were jointly sponsored by the Institute and student groups.)

In previous years, freshman classes numbering more than 950 have flooded the Institute, severely taxing the combined dormitory-fraternity housing facilities and forcing



THE TRADITIONAL PRESIDENT'S RECEPTION: Sunday, in the President's House, freshmen and their parents with Dr. Killian and other top administration officials. Here is a view of last year's reception. Dr. Killian is at the center with head bowed.

Record Number Here For Rush Week; Quotas Filled

Over 600 rushees attended the 1957 fraternity Rush Week. This was the largest number ever to participate in the hectic five days in which the 27 campus chapters choose their pledges for the next year. The number exceeded the 1956 turnout by over 100, and showed the growing interest in the week by exceeding the 1953 turnout by well over 200.

The new record came as a surprise to many who thought that the two dollar registration fee, new this year, would have a dampening effect on the quantity of registrants.

The Tech Provides Opportunity For All, 76-Year Tradition

Independent of administration control and student government supervision, *The Tech* is the oldest and largest activity on the Institute campus. Established in 1881, *The Tech* has been serving the Institute community for seventy-six years. Unsubsidized, the financial operations of the newspaper are the third most extensive—after the Athletic Association and Finance Committee. Business operations are handled in their entirety by undergraduate business staffs.

Varied Positions Available

Activities of the paper are as diverse as those of the many-faceted Institute campus. Besides the normal operations of a newspaper and a business, *The Tech* demands interested and capable specialists to cover activities which range from athletics to music and drama to complex research.

Occupying a unique position—as the only campus-wide newspaper—*The Tech* has a definite responsibility. It has as well a dramatic and powerful influence on all affairs affecting undergraduate life.

Only Interest Required

There are opportunities for freshmen in all of the paper's staffs. Previous experience, although helpful, is far from a prerequisite to success on *The Tech*. Interest in any phase of Institute activity is the only requirement. Freshmen are invited to visit the Midway booth now or the newspaper office—Walker Memorial, room 14—any Sunday or Wednesday evening.

A freshman smoker will be held sometime during the next two weeks. Announcement of the smoker will be posted on the bulletin boards of the Institute.

The number of pledges reported also showed a slight increase over last year, with 294 pledged as of Wednesday night, with a few more reports yet to come.

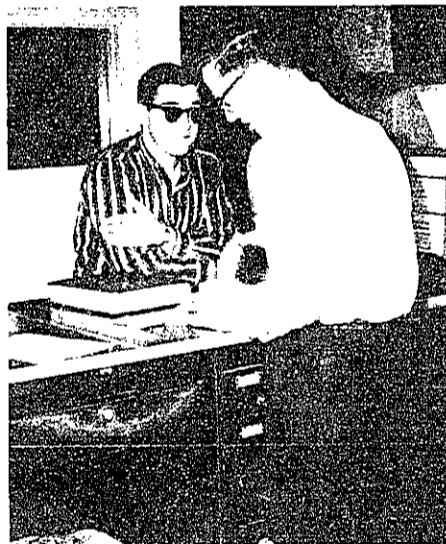
Finest Ever

Most houses filled their quota, and several reported that this was the finest rush week they had seen, judging by the general quality of the prospective fraternity men whom they saw.

Dean Fassett pointed out "more interest than before in college transfers and in foreign students." The Dean of Residence explained that all non-fraternity freshmen would be housed in the dormitories, and that it is the transfers who are usually forced to search elsewhere for living accommodations.

The Inter-Fraternity Conference Rushing Committee reported "Most houses cooperated extremely well with both the old and new rushing rules. This resulted in less hard feelings during this period of pressure on the chapters." The new rule this year limited the time a freshman could be out of the chapter house to four hours and limited the time he could be away from a telephone to three hours. The IFC has received no official complaints yet; although it is rumored that several violations did occur.

As Rush Week officially closed on Wednesday, the number of pledges in each house varied from four to eighteen, with the average near eleven. Delta Kappa Epsilon, who last year had the largest pledge class on campus, reported only four pledges this year. House officials explained that "with our large class last year, this pretty well fills up the house." High chapter with eighteen pledged, was Tau Epsilon Phi, Tech's newest fraternity which is in the process of building itself up. Two other chapters, Beta Theta Pi and Theta Xi, had only five pledges as Rush Week ended.



CHECKING IN: Chris Hahn '58 (right), at the East Campus desk, signs up a freshman member from the movie colony.

many students to go off-campus in search of living accommodations.

But this year, making an educated guess, Admissions cut its number of acceptances by about a hundred. Admissions points out that, in deciding how many freshman candidates to accept, they must always resort to some kind of guesswork, because roughly half the candidates accepted by Admissions eventually choose another school. The average entering freshman, says Admissions, applies to three-and-one-half schools. If he is accepted by MIT but decides to enter another school, that school is most likely Harvard, Yale, Princeton, RPI, Cornell, or Cal. Tech.

Because of the small freshman class, Dean Fassett, in charge of housing, confidently predicts that every freshman and "a very substantial number" of upperclassmen who desire dormitory accommodations will get them.

As usual, there are some unlucky students who are spending their first weeks on cots in the gymnasium of Walker Memorial. But their numbers are far fewer this year than last—and will continue to be fewer, forecasts Dean Fassett—who is still spending hectic days counseling patience.

Busy Week-end Round Slated For Class Of '61

by Carl V. Swanson

It is again the latter half of September, and again the Freshman Week-end introduces a new academic year. This year, occurring mainly from the eighteenth to the twenty-second with the exception of a dinner on the twenty-sixth, the orientation program has incorporated several new ideas and methods from the discussions of last year's Freshman Orientation Committee report. The beach party is a new part of the program, and for the first time, a dinner with the faculty advisor, is being held during the first week of school instead of during the Freshman week-end.

Also this year as a result of a special Orientation Committee report made last spring, attendance at the programs and events has been declared voluntary. This derives from the realization that it is the freshman who orientates himself, not speeches or tours. Yet complete attendance is still desired. Therefore, the entire program has been improved with better programs and finer events in an atmosphere of greater interest and cooperation in orientation among the upperclassmen.

The greatest emphasis, appropriately enough, as signified by its predominance is upon acquainting the freshman with the academic side of MIT. Talking and laughing with excited expectation formed in long lines the freshmen began the week-end by registering in building seven and meeting their fellow classmates. Following this, Dr. Killian extended the official greeting from himself and the entire Institute to the Class of 1961. Dean Rule then spoke explaining the function of his office and himself in relation to the student body as well as listing some of the services available to the student when he needs help. Late in the afternoon the sections split into two groups and informally met their respective advisors for the first time as well as found out who their section-mates were.

This morning tours left buildings seven and ten at ten and eleven (eleven for the late sleepers) on five different routes calculated to interest anyone. The nuclear science tour drew the most persons as they saw the Van de Graaff Generator, the

linear accelerator, the cyclotron, and the synchrotron but were unable to inspect the atomic pile as it hasn't been completely installed.

Other tours covered the mechanical and marine engineering facilities, the Research Laboratory of Electronics, the various facilities dealing with the earth and natural resources: geology, metallurgy, spectroscopy and civil and sanitary engineering; another tour covered chemical and electrical engineering with architecture and food technology.

Building Seven Fire Burns Arch. Offices

A fire on the fourth floor of building 7 Wednesday morning caused extensive damage to office equipment, records, and rare models belonging to the Department of Architecture.



FIRE IN BUILDING SEVEN: A hook-and-ladder crew from the Cambridge Fire Department battles the fire which raged through Architecture Department offices on the fourth floor of building seven Wednesday morning.

According to Deputy Chief Galvin of the Cambridge Fire Department, four engines, including two hook-and-ladders, were called to the scene.

Galvin said that the blaze was caused by "the spontaneous ignition of nitro-cellulose film in an office cabinet."

The Tech the kibitzer



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The editorial board of The Tech invites the members of the Class of 1961 to express their opinions of the MIT community through the "letters to the editor" column. The editorial board will use its own judgment in what letters to print but will print none unless signed. Name will be withheld upon your request.

editorial

a greeting

The bustle of freshman weekend and rush week have come almost to an end; and, in a few days, the nine hundred entering freshmen will be attending their first classes. To them—welcome and a word of caution.

They have been subjected to testing, counseling, processing and speeches. They have filled out forms, read slick catalogues and brochures, been approached by fraternity men and salesmen, activity men and athletic men. They have been welcomed again and again and received advice on where to live, where to eat, where to go and what to do. During this confusing time, one thing has been neglected—education. The nine hundred freshmen came to MIT for the finest technical education available.

At the end of the year—or four—many of the same nine hundred will feel cheated, will feel that *Time*, *Life*, *Fortune* and *This Is MIT* lied, will feel that the education they received was second-rate and unsatisfactory. They will be partly right.

Four years of secondary school accustomed them to the teaching of trained and interested pedagogues. Four weeks of Institute training, of exposure to engineers and scientists—experts in their fields and amateur teachers—as instructors will leave them disappointed—in the quality of the teaching and the confusion of their work. Seldom does either have direction, organization or meaning. Many will take advantage of the Institute's liberal attitude toward class attendance and homework; others will grind away painfully—both suffer.

Institute undergraduate education is the finest, but it is far from ideal. All too often the instructors have but little interest in teaching and less ability. It is not altogether their fault; advancement is the reward of research not teaching. All too often the courses are poorly organized and without meaning. Institute education—like other American technical institutions—is run on a rigid and archaic system. Too many courses are required—but a gradual relaxation is under way. Unnecessary lectures are given, inadequate texts used. Changes have been made, are being made.

The nine hundred entering freshmen will get full value for their four years if they take *Time*, *Life*, *Fortune*, and *This Is MIT* with a salt shaker and face the years ahead with eyes more open than starry.

offense

S—J 6 5 2
 H—J 10 8 4 3
 D—A K
 C—Q 10
 N
 W E
 S
 S—Q 10 9
 H—Q 2
 D—9 3 2
 C—K J 7 6 3
 S—K 4 3
 H—A K 9 7 5
 D—8 6 4
 C—A 9

The bidding: S W N E
 1H P 2H P
 4H P P P

Opening lead: Queen of diamonds.

Straightforward bidding and straightforward finesses lost this hand for South. Not that anything was wrong with the bidding but the fact that finesses lie in the hands do not make them mandatory. In other words, don't finesse unless you have to!

Declarer won the opening lead on board and after pulling trumps proceeded to lead a spade and finesse. West won with his ace and returned a club. South took with his ace and then had to lose another club and two more spades for down one.

However with a bit of thinking the hand is unbeatable. Declarer should pull trumps, play the king of diamonds, a small club to his ace, ruff his last diamond and lead the losing club, end-playing East. East is forced to lead a spade or else allow a ruff and a sluff. By forcing the opponent's to lead spades declarer can keep his losses to three tricks.

defense

S—Q 8
 H—Q 8 6 5 2
 D—A K J
 C—A K Q
 N
 W E
 S
 S—K 5 4
 H—A 3
 D—10 8 6 5
 C—9 7 5 2

The bidding: N E S W
 1H P 1NT P
 3NT P P P

Opening lead: Jack of Spades.

The novice bridge player is always amazed when he sees an expert discard a good ace or king while defending a hand in order that he may defeat the contract. The above hand is a good example that even a non-expert can indulge in if he is willing to concentrate a little.

The jack of spades is captured by North's queen; East plays the seven. South now leads a small heart to his ace. To beat the contract West must pitch his king! If West does not, he will be forced to win the second or third heart. With West in the lead, South has an additional spade stopper and since the hearts will set up with the play of the queen from the board, South has no more worries. West's only hope to defeat the contract is if East holds the jack of hearts with two little ones, and can get in and lead a spade through South's king in time. It is obvious that the declarer has the king of spades and does not have the ace of hearts. If East had the king of spades he would have played it on the first round; since he played the seven, South's king must still be protected. If South had the jack of hearts, he would have finessed hearts the first time he played them. If South holds three hearts, the contract can never be defeated, and West is only throwing away one trick.

If West pitches his king of hearts under the ace, South cannot make the contract. South can take eight tricks at most, one spade, two hearts, two diamonds, and three clubs, before he must let East in.

—Jerry Davis '56

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On Campus with Max Shulman

(Author of "Barefoot Boy With Cheek," etc.)

THE MIXTURE AS BEFORE

Today begins my fourth year of writing this column and, as before, I will continue to explore the issues that grip the keen young mind of campus America—burning questions like "Should housemothers be forced to retire at 28?" and "Should pajamas and robes be allowed at first-hour classes?" and "Should proctors be armed?" and "Should picnicking be permitted in the stacks?" and "Should teachers above the rank of associate professor be empowered to perform marriages?" and "Should capital punishment for pledges be abolished?"



Should capital punishment for pledges be abolished?

Philip Morris Incorporated sponsors this column. Philip Morris Incorporated makes Philip Morris cigarettes. They also make Marlboro cigarettes. Marlboro is what I am going to talk to you about this year.

Before beginning the current series of columns, I made an exhaustive study of Marlboro advertising. This took almost four minutes. The Marlboro people don't waste words. They give it to you fast: "You get a lot to like in a Marlboro... Filter... Flavor... Flip-top Box."

Well, sir, at first this approach seemed to me a little terse, a bit naked. Perhaps, thought I, I should drape it with a veil of violet prose, adorn it with a mantle of fluffy adjectives, dangle some participles from the ears... But then I thought, what for? Doesn't that tell the whole Marlboro story?... Filter... Flavor... Flip-top Box.

Marlboro tastes great. The filter works. So does the box. What else do you need to know?

So, with the Marlboro story quickly told, let us turn immediately to the chief problem of undergraduate life—the money problem. This has always been a vexing dilemma, even in my own college days. I recall, for example, a classmate named Oliver Hazard Sigafos, a great strapping fellow standing 14 hands high, who fell in love with a beautiful Theta named Nikki Spillane, with hair like beaten gold and eyeballs like two table-spoons of forgetfulness.

Every night Oliver Hazard would take Nikki out to dine and dance, and then to dine again, for dancing made Nikki ravenous. Then they would go riding in the swan boats, and then Nikki, her appetite sharpened by the sea air, would have 8 or 10 cutlets, and then Oliver Hazard would take her home, stopping on the way to buy her a pair of oysters or two.

To raise money for these enchanted evenings, Oliver Hazard took on a number of part-time jobs. Between classes he cut hair. After school he gutted perches. From dusk to midnight he vulcanized medicine balls. From midnight to dawn he trapped night crawlers.

This crowded schedule took, alas, a heavy toll from Oliver Hazard. In the space of a month he dwindled from 260 to 104 pounds—but that, curiously enough, proved his salvation.

Today Oliver Hazard is a jockey, earning a handsome living which, combined with what he makes as a lymph donor after hours, is quite sufficient to curb Nikki's girlish appetite. Today they are married and live in Upper Marlboro, Maryland, with their two daughters, Filter and Flavor, and their son, Flip-top Box.

The makers of Marlboro take pleasure in bringing you this free-wheeling, uncensored column every week during the school year... And speaking of pleasure, have you tried a Marlboro?

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of

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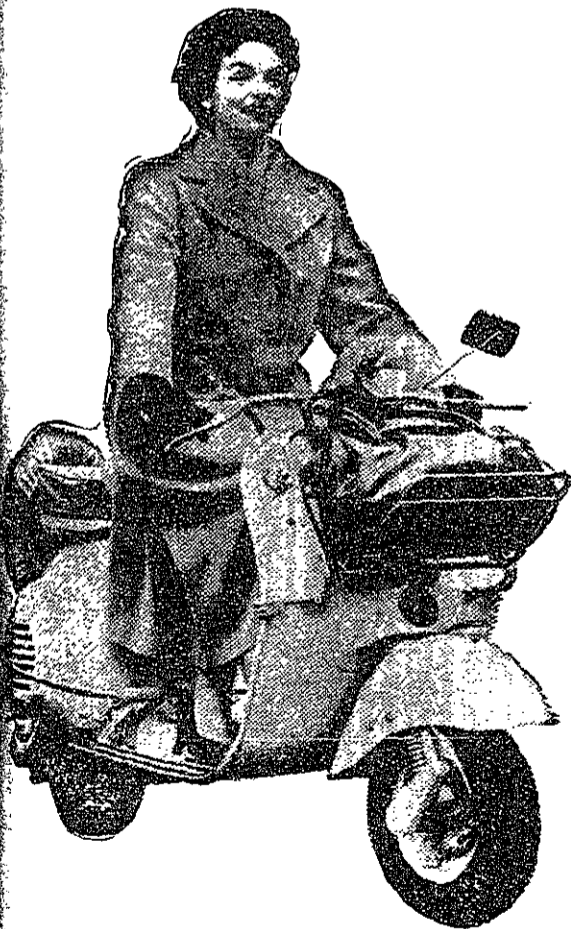
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Low Temperature Research Here Paves Way For Fusion Engines

Thermonuclear engines producing staggering amounts of electrical power from inexpensive, plentiful fuel are envisioned by Professor William Phelps Allis, of the Physics Department. In these engines, powerful magnetic fields would control reactions such as occur in hydrogen bombs.

Professor Allis was interviewed recently by Volta Torrey on an MIT Science Reporter program about "Efforts to Control Fusion Power," which was telecast by WGBH on Channel 2.

The atomic power plants now being built are fission reactors, in which the nuclei of atoms are split apart. Plants employing fusion reactions, in which nuclei are fused together, would yield more power and the supply of fuel for such plants would be virtually inexhaustible.

Professor Allis described a fusion reaction in which deuterium is used. Deuterium can be extracted from sea water, and can yield 60,000,000 times as much energy per pound as is obtained from coal.

The ignition temperature of deuterium is so much higher than that of coal or gasoline, however, that a new kind of engine is needed. No familiar material can withstand the extreme heat of a deuterium fusion reaction and thus serve as a cylinder.

In the stars, gravity holds the reacting atoms together, but the earth's

gravitational field is too feeble. Hence, scientists now are studying the possibilities of employing powerful magnetic fields as containers.

These fields might expand and contract rapidly, Professor Allis suggested, and thus serve as pistons, too. These pistons might pump energy directly into electrical coils.

The reaction that must be confined takes place in a highly ionized gas at a high temperature. This is called a plasma. Professor Allis described two ways of holding this plasma within magnetic fields. Difficulties which the scientists call sausage effects, kink effects and flute effects in the plasma are major obstacles at present to the development of satisfactory magnetic cylinders and pistons.

Professor Allis described publicly for the first time an investigation under way here of the properties of highly ionized plasma at low temperatures. From such studies, theoretical deductions may be made regarding the plasma's behavior at high temperatures. This research is known as Project Ashby, and is sponsored by the Atomic Energy Commission.

Professor Allis is an outstanding authority on electrical discharges in gases. He believes that the scientists and engineers now working on the thermonuclear power plants are at a stage comparable to that which pioneers in aviation had reached at the turn of the century.

14 Freshman Coeds Dispel 'Dear Sir's', Taste Life At MIT

Women at M.I.T.? Of course—they've been here for years. Every year a small number of women enter with a class of hundreds of men.

This year, fourteen coeds, rather puzzled at receiving rush letters addressed "Dear Sir," and invitations to "get acquainted with lots of girls around Boston," arrived for Freshman Weekend to get their first taste of life at a men's college. Several upper-class coeds were around all weekend to counsel the incoming group and help introduce them to the Institute.

Each Freshman coed is assigned to a "Big Sister" who writes her before she arrives, warning and advising her about what lies ahead. An extra for the girls will be the Big Sister-Little Sister dinner on Saturday night.

Under new policy, all Freshman coeds are living at the Women's Dorm on 120 Bay State Road with three upperclassmen. (Phone Circle 7-8646). Here, for future reference, is a list of the girls and their home towns: Frances Behr, Hyde Park, N. Y.; Jacqueline Beyer, Buffalo, N. Y.; Nancy Burow, Utica, Mich.; Betty Hunt, Akron, Ohio; Emilia Ivanoff, Miami, Fla.; Karlene Klages, Fort Lauderdale, Fla.; Shelah Lerner, N. Y., N. Y.; Vera Mares, Dundalk, Md.; Marla Moody, Tempe, Arizona; Lynn Rich, Cincinnati, Ohio; Susan Rosenbaum, Levittown, N. Y.; Nancy Surprenant, Nashua, N. H.; Susan Sweetnam, Toledo, Ohio; Marion Weiner, Long Island, N. Y.

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Compton Labs Open; Huge Lecture Room To Be Used This Fall

MIT's newest building, the \$4,000,000 Karl Taylor Compton Laboratories, erected in memory of the former president and chairman of the Institute, was dedicated last June. The building now houses the Research Laboratory of Electronics, the Laboratory for Nuclear Science and the Computation Laboratory.

The first floor is divided into two sections by an open passageway. The Compton Lecture Hall, brand-new site of the freshman Physics Lectures, is in one of these wings, and the other houses the IBM 704, the largest electronic computing machine in use in any educational center in the country.

The lecture hall has 418 seats, arranged in pairs on tiers, so that every seat can be entered or left without disturbing anyone. Every student will have an unobstructed view of the instructor's demonstration bench, and provision has been made for the use of every known teaching aid.

A film projection room extends across the rear of the hall, above and behind the students' heads. It provides ample space for all kinds of projectors and television cameras. The ceiling of the hall has been made of birch flooring, recessed for continuous cold cathode lighting. Panels can be removed from this ceiling to permit the lowering of a gondola for additional cameras or a large-screen TV projector if this proves to be desirable.

Behind the instructor's bench is a blackboard 48 feet wide. This can be supplemented by three 16-foot blackboards, and a 12-by-16 foot movie screen which can be raised or lowered hydraulically. There is audio equipment throughout the hall, an acoustic chamber (which builders have dubbed the poop deck) above the instructor, and provision for special lighting of his desk.

A monorail runs from the instructor's position in front of the blackboard to a "dressing room" for scientific apparatus behind it. This preparation room is filled with shelves and benches for equipment used in demonstrations. The monorail will permit even such a heavy piece of apparatus as a cloud chamber to be made ready in the rear and quickly brought forward when needed.

Across the first-floor court, or breezeway, from the lecture hall is
(Continued on page 6)

All-Tech Sports Day To Replace Field Day

The Class of 1961 will be the first not to participate in the tradition of Field Day in fifty years ago. Field Day was just two years ago, the climax of a rivalry between the freshmen and the sophomores. The day consisted of various athletic contests between the freshmen and the sophomores, and the notorious glove fight, a contest which is pictured above. Last year's first issue described it like this: "The freshmen congregate at one end of the football field and the sophs at the other, where each man receives a glove. On the signal there is open warfare, the object of which is to get as many of the other class' gloves as possible. At the end of fifteen minutes the gloves captured are counted and the winner declared."

But Field Day is no more. The first blow to its existence came two years ago when hazing was abolished. The second, and the lethal blow came last spring when the Athletic Association abolished all Field Day sports. The general sentiment behind the move was that the intercollegiate competition was being hindered because of the rushed schedule before the field day events, and the high level expense incurred on an athletic activity that adds little to

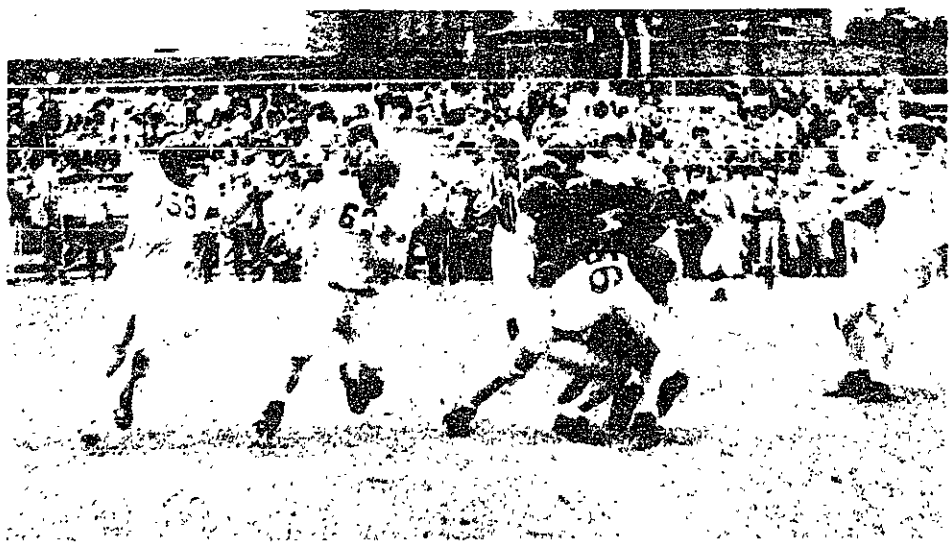
the intercollegiate reputation of MIT.

The Athletic Association has recently announced an All-MIT Sports Day for the former Field Day date. The day will include home competition by four of Tech's varsity teams, plus a tentative luncheon in the cage for the spectators.

There has also been mention of an All-Tech Track Meet to be held on the same program featuring runners from all parts of the Institute. The Association hopes that this day will maintain the high spirit developed on former Field Days, and yet foster intercollegiate competition and better performances besides.

The events scheduled for that day feature a Charles River Crew Race with Dartmouth, who are always strong contenders, in the morning. Noon will provide a sailing match against as yet unmentioned schools in the Schell Regatta at the MIT sailing pavilion. The luncheon will follow in the cage, and it is expected that Beaver Key, the Junior Honorary organization, will be selling refreshments and pennants throughout the day.

The afternoon of the All-MIT Sports Day will entertain the participants and spectators as well with a Rugby game against Dartmouth



Action in the traditional frosh-soph football that had highlighted the Field Days of the past. The Athletic Association has discontinued this event, along with the other four interclass contests.

College, and a soccer match against Brown. It is as yet too early to predict the shape of Tech's team this fall, but initial impressions are promising, and it is strongly hoped by the AA that they will be able to provide a winning day for the people who come out to enjoy the festivities.

The field days of the past had included, besides the glove fight, five athletic contests between the frosh and the sophs. The first event on the card was the crew race, which was usually a sure victory for the freshmen who could usually field four to six crews as compared to the sophs' one. Then the scene would shift to the Alumni Pool where the sophomores pull men out of the crowd,

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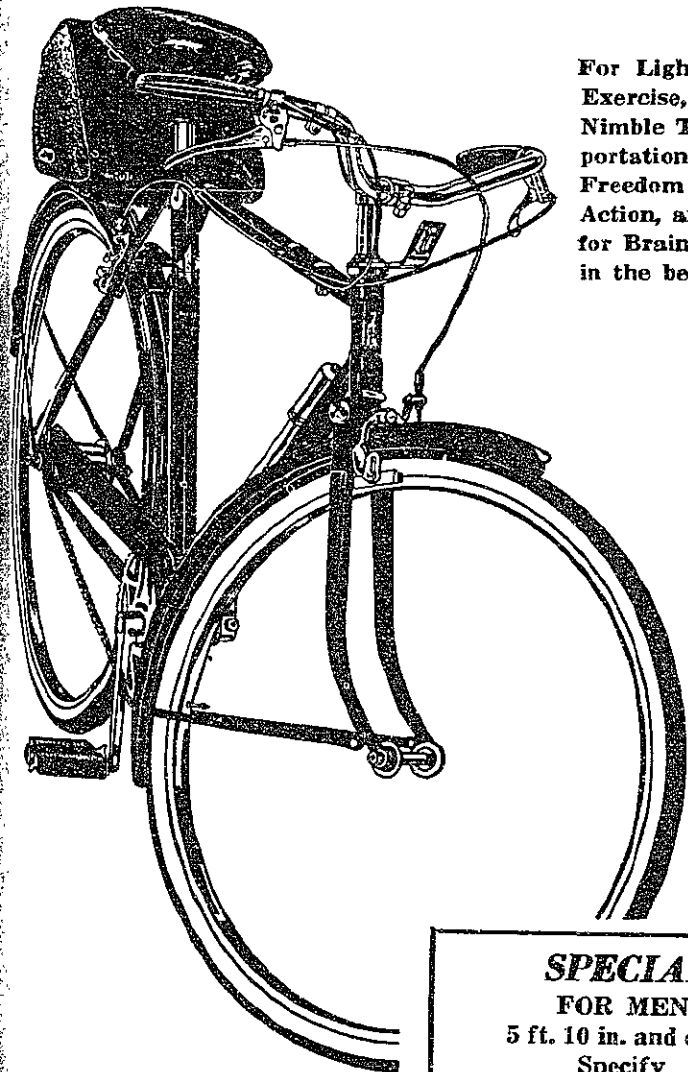
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Participation, Competition Keynote Athletics

By Lenny Spar

The many contributions made to science and industry by the Institute and its traditionally high academic standards have all but obscured its part as pioneer in intercollegiate sport. You may have heard of the scientific achievements and of the academic tradition but it is extremely unlikely that you know that MIT introduced intercollegiate sailing competition or was one of the first to recognize the fast growing though little known sport of weight-lifting.

Because of the lack of big-time Tech major sport teams, the athletic program has received little notice. It is however, one of the most complete to be found in any university, large or small. The program includes every sport, major or minor, with the single exception of football. Participation in varsity, freshman and j.v. athletics is perhaps the most complete anywhere. Almost one-third of the undergraduate body has at one time or another participated in the intercollegiate program.

No "Minor" Sports

Before I mentioned major and minor sports, let me correct myself. At the Institute there are no minor sports, all sports are treated equally. This is perhaps the essence of the MIT attitude.

We like to win, we are out there not just to "participate" but to win if possible. Just as there are no minor sports, there are no minor victories. A win by the basketball team over a comparatively minor league opponent rates just as high as a win by the crew over a definitely big-league adversary.

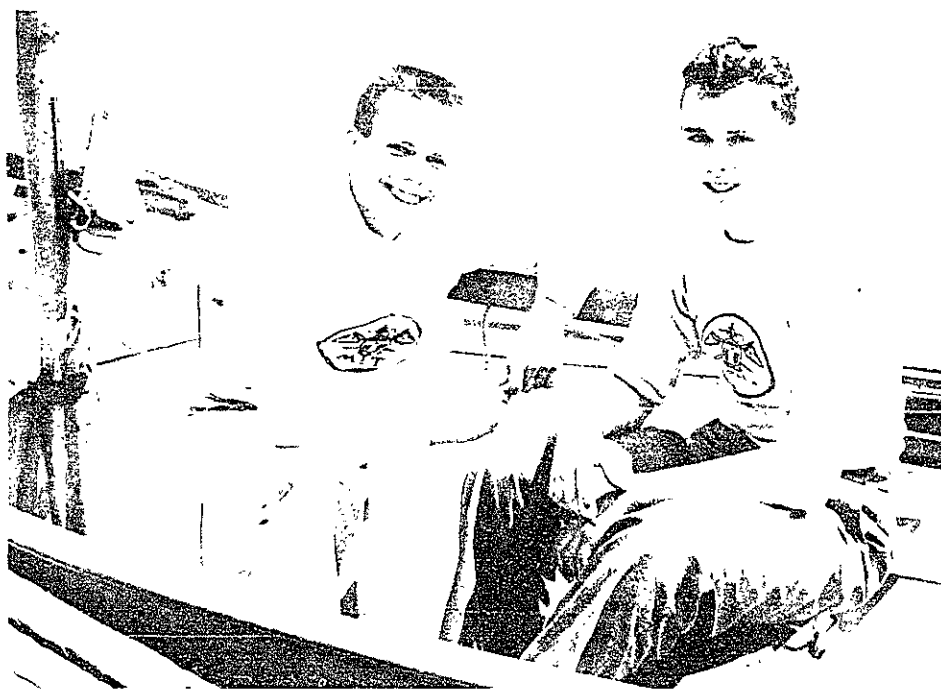
But it is obviously impossible for a college like Tech to compete in the so-called big-time in every sport without granting special privileges to athletes and recruiting prospects. This is not the way the Institute does things. We, therefore, compete with schools in our own classes. Since the calibre of our teams varies with each sport, the calibre of our opponents varies greatly. This policy is perhaps the best possible one. If it were more generally in use the present situation of drastic overemphasis in intercollegiate sport would be virtually nonexistent. MIT has found the answer to overemphasis not in the equally undesirable complete deemphasis but in proper emphasis.

Participation Great

The athletic program at Tech is designed to allow the fullest possible participation. Many of the sports, crew and squash, to name two do not require a great deal of previous experience. In almost all sports at the freshman level and in many at the varsity level there is no "cut" made.

The athletic facilities are excellent and are being constantly improved, witness the new hockey rink and basketball floor. Despite the high percentage of intercollegiate participants, there is room for a great many more. All these things add up to one conclusion. Your participation in intercollegiate athletics. Although you may have never gone out for a sport before, you need not hesitate to now. A surprisingly small number of Tech varsity athletes had high school experience. Why not give it a try? The field day and fall sports program offer an excellent opportunity to start out.

sailors successful



Tech Sailing Stars

Seated in one of M.I.T. dingies are (left) Tech Sailing Captain Bill Widnall '59, and C. Dennis Posey '59. Both were big factors in the second place that M.I.T. captured in the National Championships this summer at Annapolis.

Captain Widnall was selected as the best sailor in New England and heads the NE All-Stars. It was the first time that a sophomore was ever awarded that honor.

Dennis Posey, competing in the M.I.T. Nautical Association, won four championships himself this summer. These included the Mass. Bay Men's Championships, the Atlantic Coast Thistle Championship, the Mass. Bay Single, and National Firefly Championship.

Competition, Classes Satisfy MIT Athletic Grad Requirements

The MIT physical education program requires every student to complete a minimum of eight athletic points by the end of the sophomore year. These points can be accrued through participation in the various intercollegiate sports or by enrolling in a physical education class. Medical examinations, swimming, and physical fitness tests are recommended for participation in swimming or developmental classes. Medical examinations are also necessary for eligibility in intramural sports for upper classmen as well as freshmen. Completion of a physical education course quarter. Satisfactory participation in the varsity or freshman intercollegiate program awards two points per fall or spring sport or four points per winter sport. Though completion of the physical education program during the first two years is one of the requirements for the Bachelor's degree, it can be accomplished in one year.

The physical education classes are wherein an instructor supervises the group in one of several different sports available through the year. These classes accomplish their designated purpose in that they afford the opportunity for competitive physical recreation without making the demands of an intercollegiate sport.

The other method to complete the requirement is to participate in the many and diversified intercollegiate sports. There are both freshmen and varsity teams in almost every sport one can imagine and cuts from the rosters are very infrequent.

Participation is not limited to athletes alone as a good managerial system is necessary for efficient organization of any sport. The competition, comradery and physical exercise of a team sport is invaluable in personal development.

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Slot Putting 'Omph' In '58 Tech Show

The script is well under way for this year's Tech Show, MIT's wholly student produced musical comedy, according to Mike Intriligator '59, General Manager. The show will have "a more integrated kind of plot and added 'Omph'", he said. Intriligator and his Business Manager Bill Long '58 plan to take the show on the road and play two other schools after the February 28, March 1, 7 and 8 performances in Kresge Auditorium. Smith, Syracuse, and Cornell are being considered for the tour.

COMPTON LABS

(Continued from page 1)

the IBM 704. This machine fills a 46-by-70 foot room in which the temperature and humidity will be held within narrow limits. One air-conditioning system will serve the computer and another unit will air-condition the lecture hall and provide ventilation throughout the rest of the building.

Offices of more than 50 members of the staff of the computation center are in nearby rooms. The floors directly above the computation center will be occupied by the Research Laboratory of Electronics, and most of the space on the top floors will be taken by the Laboratory for Nuclear Science.

The Research Laboratory of Electronics is an interdepartmental laboratory for the Departments of Electrical Engineering and Physics. It has a staff of about 300 persons, including about 100 graduate students and a number of undergraduates who do advanced work. It is one of the world's leading centers for the study of communication theory and its many applications.

The Laboratory of Nuclear Science, which serves the School of Science, has a staff of 200. About 90 students work in this laboratory. It has many facilities for the study of both high-energy and low-energy physics and is engaged in many important, unclassified research projects for the Office of Naval Research and the Atomic Energy Commission.

None of the work assigned to the new computer will be secret and there will be no restricted areas in the new building. It will be used to bring workers on the frontiers of knowledge into closer proximity to assure maximum collaboration.

One of the new building's unusual features is that power lines are run through it vertically rather than horizontally. This has been done so that equipment drawing hundreds of amperes can be used in any part of the building without stringing temporary cables through the corridors.

Apparatus which will be housed in the Karl T. Compton Laboratories will include the devices used for the study of molecular beams, and acoustically and electrically shielded cages used in neurophysiological studies. Such heavy installations as the synchrotron and the Van de Graaff generator of the Laboratory for Nuclear Science will remain in other buildings nearby.

Prof. Philip M. Morse is director of the Computation Center, Prof. Jerome B. Wiesner is director of the Research Laboratory of Electronics, and Prof. Martin Deutsch is chairman of the directing committee for the Laboratory for Nuclear Science. Others who will have offices in the new building will include Dr. F. M. Verzuh, assistant director of the Computation Center. Dr. George G. Harvey and Dr. Henry J. Zimmerman, associate directors of the Research Laboratory of Electronics, and Dr. Peter T. Demos, associate director of the Laboratory for Nuclear Science, and Dr. Fred Eppling, executive officer.

Placing the headquarters of these laboratories in the new building will make it the hub of research work that extends throughout the world. Computations for the International Geophysical Year will be made on the new computer. Global communications are studied in the Research Laboratory of Electronics, and photographic and other data regarding radioactivity, sub-nuclear particles and cosmic rays pour into the Laboratory for Nuclear Science from many lands.

Enrollment Up

Total enrollment at the Institute will reach an all-time high of about 6150, when 5250 upperclassmen and graduate students officially register Monday, according to an administration spokesman.

The student body will again be the most cosmopolitan in the country, with a foreign student population of over eleven per cent.

Rush Week Nonentity Lance Meadowbrook Is Back For Third

Lance Meadowbrook, MIT's most famous rushee, once again found his way to the Cambridge campus to participate in the 1957 Rush Week festivities.

Meadowbrook, who for the past three years has been a name in IFC files, even paid the two dollar registration fee and faithfully turned in schedule cards for his five days of rushing. No one, not even Sean Fasset, is quite sure who he is, but the fact that he returns every year seems to show that he is quite impressed with Tech fraternities.

The last report "The Tech" received on Lance was Wednesday night, when a reporter came across a notice on the IFC Clearing House blackboard. It read, "Lance Meadowbrook has pledged Delta Delta Delta."

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