

Class of '67 scores second Field Day triumph: 68 - 45



Photos by Norman Neff

Freshmen and sophomores tangle in the all-important glove fight, which has determined the winner of Field Day in recent years. Before the fifteen-minute scuffle, the Class of 1968 held a 12-point lead in the totals. Good weather and good spirit combined to produce a record turnout of both classes. Total volume of the gloves captured by sophomores was about 2 1/2 times the volume in the freshman bucket. A vote of Beaver Key gave '67 twenty points for sportsmanship.



Photo by Leonard Fehskens

Freshman boosters cheer their team in the first general unlimited tug-of-war. The rope broke; a revised tug-of-war was held with but 50 members on each side. Freshmen won this event and the coed limited tug of war for 15 points.

Freshmen win tug-of-war

A decisive 35-point victory in the glove fight and twenty sportsmanship points guaranteed victory Saturday to the Class of 1967 in a hard-fought sixty-second Field Day that surprised many seasoned observers.

Elaborate preparations and subterfuges by members of both classes were culminated in seven events that sparked record attendance from both classes in remarkable November weather.

Pre-Field Day events included

the total destruction last Wednesday by the sophomores of a freshman stage coach which they discovered in a factory in Burlington, Mass. The sophomore coach was built in Newton.

A mystery event began the day's program, which was organized and policed by Beaver Key. Representatives of the freshman and sophomore classes attempted to walk, run or crawl down a 2-foot wide lane after a dozen spins about a four-foot pole stuck into the ground. The Class of '68 suffered a 3-point penalty as they failed to present a pole for the event.

History was made in the general unlimited tug-of-war, a classic Field Day event. Before either class had attained a significant advantage, the 3-inch hemp rope, used in this event for some years, parted in the center with a loud report. Officials of Physical Plant expressed amazement; the event, when restaged with 50 students on each side, went to the freshmen, as did the coed tug.

Robert Scarlatt, a freshman, was slightly injured in a first-lap mishap during the stagecoach race, which was subsequently cancelled.

A record attendance of about 430 sophomores and 320 freshmen delayed the start of the important glove fight, which was finally run with an equal number of gloves distributed to each side.

F. G. Fassett, Dean of Residence, awarded the Field Day trophy to Georgio Piccagli, sophomore president, at the conclusion of the festivities.

Freshmen were awarded the honors of clean-up.

Field Day Total		
Event	'67	'68
Stagecoach Race	—	—
Winner	—	—
Best Decoration	—	10
Best Dressed Coeds	—	5
Amoeba Race	7	4
Spin Out	3	7
Tricycle Race	3	5
Tug of Wars	—	—
General	—	9
Coed Limited	—	5
Glove Fight	35	—
Sportsmanship	20	—
Total	68	45

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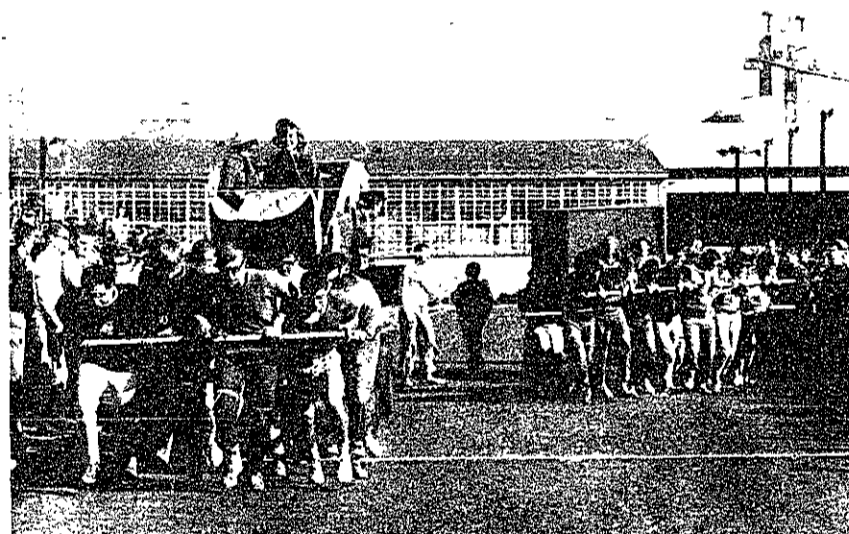


Photo by John Torode

Western style stagecoaches roll over the line at the shot of the gun. Before the end of the first lap this race was halted by an injury to Robert Sarlett '68 subsequently taken to Boston City Hospital by the MIT Campus Patrol.

Awards for the best decorated coach, and best dressed set of coeds, went to the freshman class; their coach is in the foreground. Coeds drove teams of ten horses; the coaches were equipped with noise and water projection devices.

Field Day rivalry has long history Death ended Cane Rush in 1900

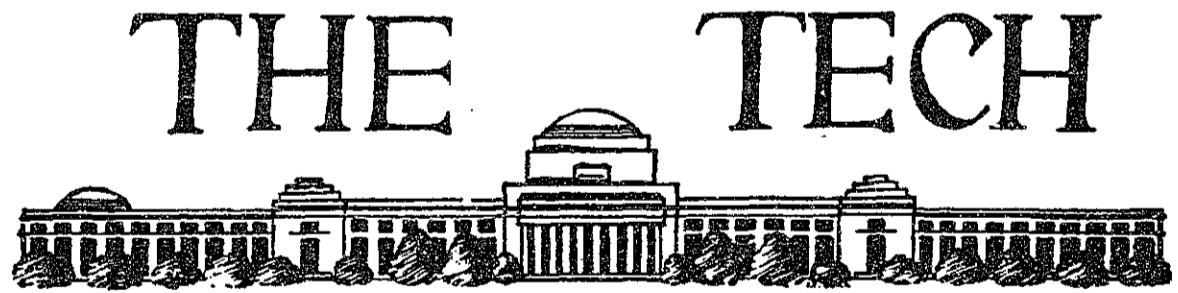
The traditional freshman-sophomore rivalry, evidenced by Field Day last Saturday, has a long and violent history.

The tradition dates back to cane fights in which the freshmen were given canes and the sophomores had fifteen minutes in which to lay their hands upon as many canes as possible. Unfortunately, this outlet for their rivalry proved disastrous, for the firing of the gun at the end of the time period more often served to incite hostilities than to end them. In the Cane Rush of 1900, Hugh C. Hadwick Moore '04 was fatally injured and another freshman, Harold W. Sherrill was severely injured. This ended the cane fights—but not the traditional rivalry. Directly after World War I, the rivalry took the form of a fight

and a parade in the streets of Boston. These were started at a local theater in which the entire student body was assembled for Tech night.

From 1923 to 1926, Tech night was replaced by a sophomore banquet which served as a target for the freshmen's pranks. In 1926, their efforts were particularly successful for the banquet of that year became known in later years as the Tech riot.

The elimination of such tactics as garbage throwing—the tosser's aim was sometimes poor—and the once-attempted tying of the tug-of-war rope to a telephone pole—has created the contemporary version of Field Day. Although the format has changed, the spirit of the competition has not, as demonstrated by the events of Saturday.



Established At MIT In 1881

Vol. 84, No. 24

Cambridge, Massachusetts, Wednesday, November 18, 1964

Five Cents



Photo by John Torode

An amoeba race, with 26 members of each class taped to each other as ectoplasm, 70 students within the surface, was slightly abortive when both amoebae broke ranks. Although the sophomores crossed the finish line first, four penalty points were awarded to the freshmen when it was discovered that sophomores had infiltrated their competitor's endoplasm.

Bo Diddley entertains masses



Photo by Jim Robertson

Part of the crowd that jammed the Armory Saturday night pauses here during a breather in the entertainment. Bo Diddley, the Duchess and his group provided the music for the 1300 present. The Invaders, an MIT rock and roll group, put in an intermission appearance. Saturday afternoon weekenders packed Kresge Auditorium to hear the Four Preps in concert. Although the start of the concert was delayed from the announced time of 2:30 pm, by contractual misunderstandings, everyone was successfully entertained.

IFC elects two to national congress

Kinthead '66 of ATO will represent the MIT Interfraternity Conference at the National Interfraternity Congress convention. The delegates were elected at the November IFC business meeting held last Thursday in Newton.

The conference will be held in Cincinnati on the weekend of December 4-6.

Jim Sweeney '66 commented on progress of the IFC Blood Drive; volunteers to aid in operations will be needed tomorrow in Kresge. General progress of the drive was reported as promising.

J. D. Roach '65 reported on the recent house presidents' conference held at Endicott House. Twenty-six houses were represented; chief topic discussed was relations with Back Bay.

Alumni representatives of the various fraternities will be invited to the next IFC meeting.

Zeta Beta Tau announced an IFC open house to be held Saturday 3-5 p.m.

Nominations for spring term rushing chairman were opened; Jack Turner and Dave Anderson were nominated.

Facilities expand

TCA serves community

By Thomas I. Rozsa
The Technology Community Association of MIT has been constantly expanding its facilities to meet the needs of MIT students and to provide more services to the MIT community.

The numerous services provided by TCA includes: the free use of typewriters, free lending of projectors, the TCA book exchange, the TCA ticket service, the TCA

The Tech adds 24 to full staff membership; 5 staff members promoted to higher positions

The Board of Directors of the Tech elevated two individuals to the rank of full staff members at its meeting Tuesday, November 10.

The managing staff received Jerrold Grochow '68, Baker House; Mark McNamee '68, T X; Paul Richter '68, PMD Louise Lentin '68, McCormick; Diane Mechler '68, McCormick; and Brenda Zimmerman '68, McCormick.

Nicholas Covatta '68, SAE; Guille Cox '68, SAE; and William Dix '67, SAE; were named to the business staff. Robert Horwitz '68, of AEPi was named to the features staff.

Elevated to the sports staff were Arthur Peariman '68, Senior House; Russell Mosteller '68, Burton House; Jerrold Sabath '68, Senior House; John Kopolow '68, East Campus; and Mark Wallace '68, Burton House.

Promoted to the photography staff were Robert Kendrick '68, PGD; Steven Silverstein '68, AEPi; James Cornell '68, PK S; Scott Mermel '69, TEP; James Robertson '68, Senior House; William Ingram '68, Burton House; Norman Neff '66, East Campus; Arthur Kalotkin '68, East Campus; and Leonard Fehskens '68, Senior House.

The Board of Directors also promoted several staff members

to new positions. Appointed controller was Don Paul '67. Max Dix '67, was named treasurer and Nicholas Covatta '68, was named assistant treasurer.

Isville Cox '68, was elevated to the position of circulation manager, and Joseph La Breche was named assistant advertising manager.

Grades available

The Registrar's Office has announced that freshmen intermediate grades for freshman courses will be available from faculty advisors after 1 p.m. next Monday. Continuing a policy developed and used last year, both A and F grades will be awarded. These grades do not affect the students cumulative average; they are not sent to parents.

W. D. Wells, '48, Registrar, made the announcement.

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Research clinic set up

By Allan Green

A Clinical Research Center, to be used jointly by the departments of Nutrition and Food Science, Medicine, Psychology, and Electrical Engineering, has been opened on the fourth floor of the newly remodeled Daggett Building. The Center, sponsored by a grant from the National Institutes of Health, is the first of its kind to be established outside a full scale hospital or medical school.

The Center provides complete hospital facilities for up to 17 patients and will permit an increased amount of clinically oriented biological research at MIT. The presence of registered staff physicians, examination and treatment

areas, and clinical laboratory facilities permits the study of subjects requiring special medical attention.

Dr. Nevin Scrimshaw, head of the Department of Nutrition and Food Science, is chairman of the supervisory committee which administers the Center's operations. It was largely through his efforts over the past three years that the Clinic was established at MIT.

One of the experiments Dr. Scrimshaw is now engaged in at the Center involves the determination of the protein and amino acid requirements of young men. The complete facilities of the clinic allow rigid control of the subject's metabolic intake for this project.

Dr. Seymour Gray, also of the Nutrition Department, is experimenting with the absorption of nutrients from the gastro-intestinal tract to directly measure the uptake of amino acids. Although normals have been used up to now as a control, the clinic will allow observation of patients with abnormal absorption syndromes. The effects of beryllium poisoning, an illness contracted by industrial workers who use the material in various production pro-

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Photos by John Torode

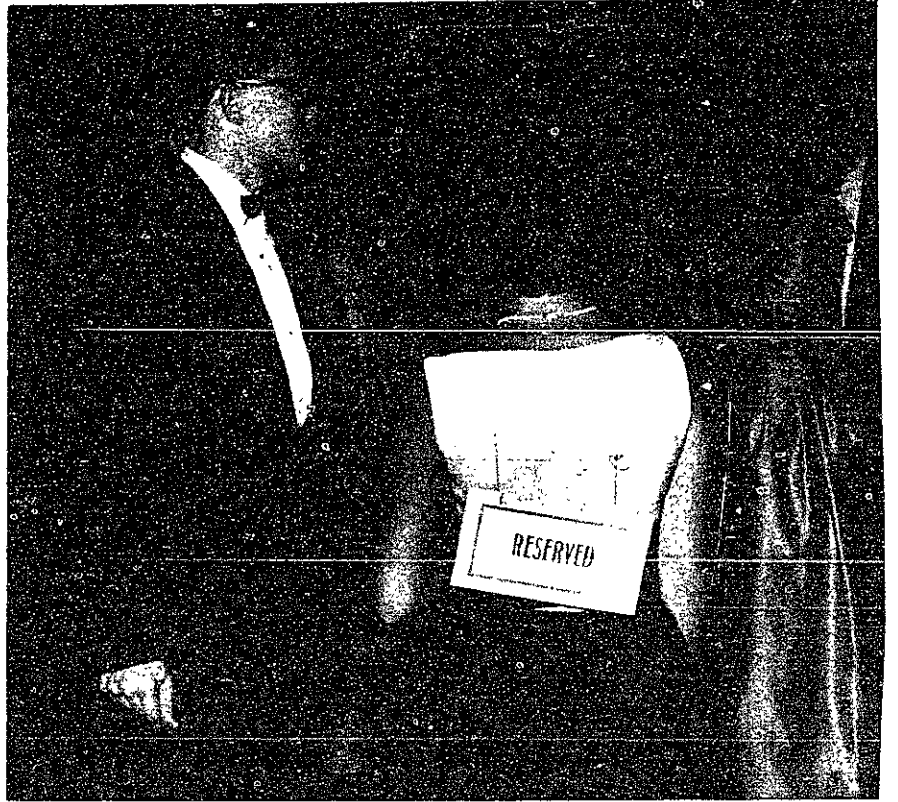
Miss Lindy Richards, 1964 JP Queen, smiles after receiving JP crown from Hank Perritt Friday night.

Approximately 600 couples jammed into the Imperial Ballroom of the Statler-Hilton for the 1964 Junior Prom Friday night.

Buddy Morrow and his orchestra provided dance music for the occasion, while the Jabberwocks from Brown University entertained during the dance's intermission.

Miss Lindy Richards, a graduate of Garland Junior College and the date of Don Schwanz '66, was crowned 1964 Junior Prom Queen by Hank Perritt, junior class president.

Saturday night, Bo Diddley and company provided the entertainment while Prom-goers filled out their weekend fun in the Armory. The Invaders, an MIT musical group, filled in during the intermission.



Samuelson on economy

Lower excise tax expected

By J. Peter Bartl and Allan Green

"There's always a fashionable forecast at the end of the year," said economist Paul Samuelson. "One part of the fashionable forecast is that the economy won't be producing as much as the trend potential in the second half of 1965."

The professor went on to explain that the trend potential, the amount of productivity possible at

full employment, is probably growing at about 4%. Currently, we are increasing our actual product about 5% per year and hence narrowing the gap between what we can produce and what we are actually producing.

By mid-1965, however, our trend potential may be growing faster than our actual product. On the basis of indicators now available, he would be surprised if there would be a recession.

While emphasizing that this is the maximum amount of pessimism he sees for the future, he said that "if this pause materializes, it will be a problem. If we were sure this would happen, there are a lot of things we could do to prevent it — all of which trend to reduce the fiscal drag."

Professor Samuelson thinks that there will be a selective cut in excise taxes next year. While such items as gas, tobacco, and liquor would not be affected, a cut in taxes on items such as cosmetics, transportation, and telephone ser-

(Please turn to page 8)

ELSIE'S

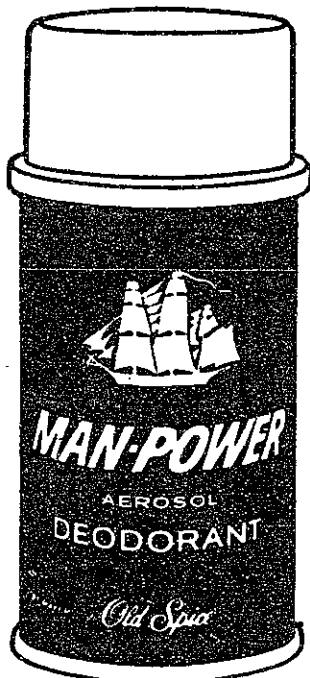
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How would you like your crow?

Once again hard reality has overturned the predictions of the experts; the sophomores rallied strongly in the glove fight to win Field Day, 68 to 45. The class of '67 has the enviable record of a two-year win.

In many ways yesterday's turmoil was the best contest in several years. Good weather added the final touch to a combination of planning, enthusiasm, and luck. Both sides showed good organization; the frosh in particular not only did some fine construction work, but also swept some of the "skill" events in which sophomore experience usually pays off.

Our prediction about participation was certainly way off the mark. Whether due to good weather, good organization, or wrath at pessimistic predictions, the sophomore turnout was impressive. The spirit of both classes was riding high. A large and enthusiastic crowd of spectators was another important addition to this year's exceptional turnout.

We find some small consolation in the discomfort of other campus prognosticators. Beaver Key found a somewhat embarrassing shortage of gloves for both sides; fast managing of the various events proved more difficult, apparently, with a large number of contestants; and the frenzied sounds of a second freshman

stagecoach being built under guard behind the Armory attested to a gross underestimation of the sophomores' powers of organized spying and destruction. In fact, the only people who expected a strong sophomore showing were the sophomores.

Don't worry, fellows, there's plenty of crow to go around. We'll have ours well done.

Junior Prom

The Class of 1966 Junior Prom was a truly memorable weekend. From the first strains of the formal dance at the Statler to the last twang of Bo Diddley's guitar, everyone enjoyed it immensely. The Committee members deserve a round of applause for the many things which made the weekend a success: the top dance music, the favors, the very enjoyable Saturday concert, the really swinging blast at the Armory.

We do feel, however, that the part played by the lovely Queen did not live up to the advance publicity. We found the coronation ceremony drab compared to last year's, when the candidates walked the length of the ballroom with their escorts. And after Friday night the queen made no more official appearances as had been planned.

This is perhaps a minor point beside the general good fun of the Prom; the few slip-ups like the 30-minute delay before the concert Saturday will be forgotten in the memory of the pleasures of the weekend. All indications are that this year's Prom was financially successful, too; profits are expected to be more than double last year's. Final figures from the committee will undoubtedly prove valuable to next year's group.

What to teach?

A Harvard committee of senior faculty members, similar to MIT's Committee on Educational Policy, recently released a report on curriculum revision. The report is primarily concerned with the General Education program—the "non-professional, broadening and humanizing influence" of the college.

MIT is not a liberal arts college; but most of the faculty would agree with the Harvard committee that "a society of specialists . . . each intensely unaware of his relation to other specialists and to society at large . . . is repugnant in the extreme." With a higher emphasis on science than on the humanities, MIT's "whole man" concept is basically the same.

The proposals of the Harvard group which might prove interesting to MIT departments are those concerning the type of courses offered in each field. Today's admissions programs bring together students with widely varied backgrounds; one general humanities course, for example, could not satisfy all incoming freshmen. Each department, the Harvard committee feels, should devote 10% of its teaching time to General Education; there should be a greater variety of course levels offered to accommodate varying levels of preparation.

Questions arise, especially here at MIT, as to the depth of these non-specialized programs. Some of the first departmental courses are already complex enough to scare away the casual elective-seeker (Psychology is a notable exception). Many of the courses are basics which only "blossom forth" in considerable advanced study. In the engineering fields particularly this is apparent.

Broadening and depth are in a sense inimical, as the Harvard committee pointed out. The CEP will undoubtedly find discussion on the topic animated.

Campus Topics

International Student Council Plans gala party at Statler

By A. Naarl
Treasurer, ISC

Foreign students at MIT make up 10 per cent of the student body. It is a pity that in the past Foreign Student groups have not been much in evidence, due largely to lack of organization. This is especially unfortunate since a large number of American students are interested in the cultures, affairs, and summer job opportunities of other countries. Also, a university campus with an international flavor is a truly interesting place to live in for everyone.

Inscomm agrees with this view

and has accorded ISC a substantial budget for next year. This year will be a test of whether or not an active international organization on campus is possible. The answer, of course, depends on the student body.

The highlight of the year will be a new social event, the MIT International Ball. This will be held at the Statler on December 4 — the last chance before vacation for a major social event. Attire will be either lounge suit or national dress. We are hoping that I-Ball will become an annual event in the tradition of A-Ball or Junior Prom.

Kibitzer

NORTH
♠ K 6 3
♥ Q 10 3
♦ 8 6 5
♣ A 10 7 5

WEST
♠ Q J 10 9 7 5
♥ 6
♦ Q J 10 9 2
♣ 3

EAST
♠ 4 2
♥ J 9 8 7 4 2
♦ 7 4
♣ Q 9 2

SOUTH
♠ A 8
♥ A K 5
♦ A K 3
♣ K J 8 6 4

Rubber bridge. North-South were vulnerable. South dealt.

The bidding:

South	West	North	East
2♣	2♣	3♣	Pass
3NT	4♦	4♣	Pass
7♣	7♦	Pass	Pass
7NT	Pass	Pass	Pass

West led the Spade Queen.

The most difficult hands to bid are those which require restraint. The moment a player is dealt more than half the points in the deck, he loses the common sense which otherwise would prevail.

One of the most costly mistakes to make in rubber bridge is to go overboard on big hands. Vulnerable, for instance, overbidding a game to an unmakeable slam throws away 800 points or so, and overbidding a small slam to an unmakeable grand slam throws away 1600 or so points.

North-South were playing a convention over an opening two club bid which enabled the responder to show his Aces and Kings. From North's club and spade bids, South knew his partner held the Ace of clubs, and King of spades. South here became greedy, contracting for a grand slam in clubs, despite the fact that from knowledge already gained he could count only ten tricks in the combined hands.

West meanwhile with favorable vulnerability had been paving the way for a sacrifice in one of his suits. Even if seven clubs could not make a save was indicated. With a little support from partner,

he would be down six, eleven hundred. With a grand slam on in this vulnerability, 2400 points would accrue to North-South, a chance that should not be taken by East-West. South, however, was not to be stopped, bidding seven no trump with the same ten tricks as before.

West opened the Queen of spades against the grand slam, and South was sorry he had not doubled seven spades. The Queen of hearts was the eleventh trick, a successful finesse for the Queen of clubs would provide a twelfth, but there seemed to be absolutely no chance for the thirteenth. However, it never hurts to play a hand out, so South proceeded with the play.

Winning the Ace of Spades in his hand, South reviewed the bidding mentally, deciding that West could have at most one club in his hand. Accordingly, he played to dummy's Ace of clubs, returned a low club, and when East played low finessed the Jack, which won. Dropping the Queen with the King, he ran the suit, discarding a diamond in dummy on his long club. Now he cashed the Ace and King of hearts, and when West showed out on the second heart his hand was subject to count. With a singleton club and singleton heart, West must be six-one-five-one, and, when the next heart is led, he will not be able to guard both spades and diamonds. This is the position:

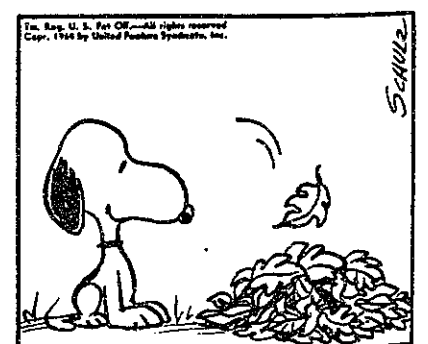
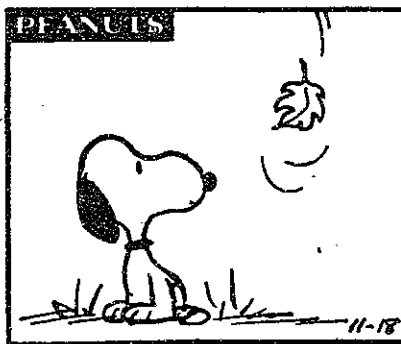
NORTH
♠ K 6
♥ Q
♦ 8 6

WEST
♠ J 10
♦ Q J 10

EAST
immaterial

SOUTH
♠ 8
♥ 5
♦ A K 3

If West pitches a diamond, South has the last four tricks with the King of spades and Ace, King and three of diamonds. If West pitches a spade, South has the Ace, King of diamonds and the King, six of spades for the last tricks.



PEANUTS appears daily and Sunday in the Boston Herald.



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Unsigned editorials in The Tech are the opinion of The Tech's Board of Directors, not that of MIT. The Tech welcomes letters from its readers. Space permitting, such letters will be printed in whole or in part, if deemed by the editor to be of sufficient interest or benefit to the community. Brevity increases the chance of publication. Anonymous letters will not be printed, but names will be withheld upon request.

Elect Wadleigh Coop stockholder Project Transport goal

The stockholders of the Harvard Cooperative Society elected three stockholders and two new directors at their annual meeting Friday, November 6 at the MIT Faculty Club.

and Andrew J. Casner of Harvard were elected to full five-year terms as stockholders, and Dean Kenneth R. Wadleigh of MIT was chosen to fill the vacancy left by the resignation of Mrs. Mary I. Bunting when she joined the Atomic Energy Commission.

New directors chosen were John R. H. Vorhies, Jr., Harvard, to replace Douglas M. Lange, Harvard, and Marland E. Whiteman, Jr. '66, to succeed Dick Carpenter '64.

Many areas of research for project

By Bob Horvitz
In the area of technological research, Project Transport has a definite goal — the greatly enhanced mobility of people and goods in the Northeast Corridor. This goal, which was more fully explained in the first article of this series, first takes tangible form in the invention of concepts for the overall system, including considerations of vehicle, propulsion, guideway, etc. Some possible approaches to these problems were described in the series' second article, which appeared last week. Actual areas of research, however, are myriad, and include not only many scientific and technological dimensions, but also physiological, psychological and sociological factors. It is the definition of these precise areas of research that concern Project Transport.

Network design is one of the first problems requiring technological research. For example, with any minimum-time door-to-door ransport system at reasonable cost, a multiple-link collection-distribution system must be designed. Although a single link between each pair of doors would be ideal timewise, each extra link would involve extra cost. Research is therefore necessary to determine an optimum compromise of number and location of links.

Similarly, operational methods pose a problem. To satisfy flow demands, either numerous smaller vehicles or fewer larger ones could be used. While the large ones promote ease in scheduling, the smaller ones offer increased convenience. Again, a compromise must be reached.

The safety and reliability of the system as a whole depend upon the probability of failure of individual components. The likelihood of malfunction leading to need of system repair, to reduced system performance, or to serious accident have to be known. Studies of system reliability can guide design standards of the compon-

ents and point out weak links. In the area of safety, however, there is no "acceptable" probability of a serious accident, and risks must be of an absolute minimum.

The effectiveness of any transportation system depends, in part, on the existence of a highly flexible, yet fully integrated, system of control. Particular areas of system control needing extensive study include 1) Traffic control within the network, 2) Terminal and operations control, and 3) Individual vehicle control. Control in each of these areas might be either human, computer, or a combination of both.

Operation of an HSGT (High Speed Ground Transportation) system at the desired speeds of 200 mph or more will place stringent requirements on the potential vehicle design, and on the nature of the allowed vehicle guideway interactions. The vehicle will have to be designed for minimum aerodynamic drag, maximum dynamic stability, and optimum fluid and/or mechanical suspension and guidance characteristics if such suspension and/or guidance is employed. Similarly, the high speeds of the system necessitate a well protected, aligned, and maintained guideway with no grade crossings.

Also needing extensive research is the propulsive system. In any HSGT system, the propulsive system must be able to accelerate the vehicle, keep it moving at cruising velocity and perhaps assist in deceleration. In addition, it must provide for the vehicle auxiliary power requirements for control communication, passenger comfort, and certain emergency capabilities in the event of any system failure. Methods of propulsion which could be considered include: 1) Force field (electrostatic, magnetostatic, electromagnetic, gravitational), 2) Impulse-reaction (rocket, jet), 3) Mechanical traction, 4) Fluid traction, 5) Fluid pressure (pneumatic tube), and 6) Impact. Different energy sources will also have to be considered and analyzed.

The human components of the system also place many restrictions upon the HSGT system, both as passengers and as decision-making components. Excessive acceleration for too long a period of time can result in both discomfort and actual physical danger. Annoying sounds should also be masked with pleasing music; however, the total energy must

(Please turn to page 8)

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Kennedy to present poetry reading tonight

This evening at 8:30 p.m. X. J. Kennedy will make his second visit through the Department of Humanities' Lecture Series. The reading will take place in the Hayden Library Lounge and will be followed by an informal discussion between poet and audience.

Mr. Kennedy has received the 1961 Lamont Prize for his first book of poems: 'Nude Descending a Staircase'. Mr. Kennedy is currently teaching at Tufts University and Wellesley College.

The poetry reading is free of charge.

theatre...

Repertory's 'Hedda Gabler' horrid in Kresge Little Theatre

HEDDA GABLER by Henrik Ibsen, translated and directed by Eva Le Gallienne; Sets by Peter Larkin, Costumes by Alvin Holt, Producers, Michael Dewell and Frances Ann Dougherty. "Hedda Gabler", produced by the National Repertory Theatre, alternating with "Lilom" and "She Stoops To Conquer" will be presented on November 19, 21, 24, & 28, at the Schubert.
Berta Elizabeth Council
Miss Julia Tesman
George Tesman Paula Bauersmith
Hedda Gabler Thayer David
Mrs. Elvsted Signe Hasso
Judge Brack Dolores Sutton
Ejlert Lovborg Francis Bethencourt
Farley Granger

One would assume that Eva Le Gallienne, having made an excellent translation of "Hedda Gabler" into English, must be capable of a superior job of directing the same play. If so, one must then conclude that the National Repertory Theatre is a group of actors totally incapable of understanding or utilizing such direction. The production at the Schubert is a frightful bore, and an insult to a good play.

Signe Hasso plays Hedda as an unmitigated bitch who deserves everything which happens to her. There is not a shred of subtlety or comprehension in her performance all evening. The exaggerated noise with which she struts and bellows about the stage, hammering every line home, leaves her

no reserves with which to mark the real climaxes of her emotional turmoil. The result, rather than a great tragedy of a woman's self-destructive pride, is more a melodrama about a malicious little fool.

The male lead isn't much better, unfortunately. Farley Granger has some conception of the inner struggles of Ejlert Lovborg, but since Miss Hasso is such a volcano of the obvious, he too must shout to be heard. The result is much noisier than the usual revival of "Hedda Gabler", but ever so much emptier.

The tragedy of the production, however, is that it isn't all bad. Elizabeth Council as Berta the maid, Paula Bauersmith as Julia Tesman, and Dolores Sutton as Mrs. Elvsted turn in quite serviceable if undistinguished performances. In the usual production, they would be little more than conversational adjuncts of the scenery, and makes a background before which the principals would capture the major interest. Here, however, their "merely competent" performances seem to ring with sincerity in contrast with all the rest.

More than adequate are Francis Bethencourt and Thayer David. Bethencourt's Judge Brack speaks the only subtle lines in the play, saying one thing but pointing to other meanings. He is a rake and an adulterer, wearing a mask of dignity, and both aspects of his character are visible in this performance.

Perhaps it is easier to play a simple character like George Tesman. He is a fat, fusty, good-natured old pedant, just meant to be taken advantage of, and as such he is little more than an instrument of Hedda's self-destruction. Yet, as portrayed by Thayer David, poor George Tesman emerges as the only real character on the Schubert stage. His simple sincerity dominates the opening scenes, and gives the mistaken

impression that what follows may be a worthwhile evening.

Even Peter Larkin's set would be an asset to any production. The walls, made of great, smothering red draperies topped with gilded cornices, beautifully portray that boredom which Hedda sees stifling her very existence. This house, which she chose by caprice, is after all a physical representation of her boring marriage which was contracted with equal thoughtlessness. Mr. Larkin makes one aware that he fully understands the play.

Bruno Hoffmann will play the glass harp in a recital November 20 at 8:30 in Kresge Little Theatre.

Also known as the glass harmonica, the glass harp was invented by Benjamin Franklin in 1762. The glass spheres which produce the tones are wedged in a reverberating base and vibrate when their rims are rubbed lightly with damp fingertips. Hoffmann designed and constructed his instrument.

Tickets are \$1.00 at the box office.

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Columbia College tuition hits \$1900

Columbia University announced last week tuition increases which will cost students in most divisions of the University about \$200. Most full time students will then be paying between \$1700 and \$1900.

Tuition in Columbia College will be \$1900. This amounts to a 73 per cent increase in the past six years.

The tuition increases will go into effect with the entering class next fall.

'You know I'm innocent'



Photo by Bill Ingram

Marie Philips, as PTA chairman Bunny Stuntz, tries to defend her honor in last Friday's production of the 'Rape of Bunny Stuntz' at Kresge Little Theatre. Loss of a file key uncovers her illicit relationship during a meeting with Howie Hale (Ted Jacobs) and the PTA parents (the audience). The play was given in connection with 21.33T.

Making the Scene

THIS WEEK MUSIC	S	M	T	W	T	F	S
New England Conservatory Symphony Orchestra — Guest soloist Richard Kapuseinski, cello; Nov. 19, 8:30 p.m.; Jordan Hall; admission free; program: Beethoven, 'Schelomo', Martini, 'Contrasto', and Brahms, 'Symphony of vocal music', Nov. 18, phony No. 1 in C minor.	22	23	24	18	19	20	21
New England Conservatory Chorus — 8:30 p.m.; Jordan Hall; admission free; program: Mozart, 'Motette', Brahms, 'Mädchenlied', 'Sommerabend', 'Das Mädchen Spricht', 'Alte Liebe', 'Salamander', Britten, 'A Charm of Lullabies', Mozart, 'Chio mi scordi di te', 'Non temer, amato bene', Schumann, 'Spanisches Liederspiel'.	29	30	1	25	26	27	28
Glass Harmonica Concert—Recital given by Bruno Hoffmann; Nov. 20, 8:30; Kresge Auditorium Little Theatre; admission \$1.00.							

Boston Symphony String Quartet — Nov. 20, 8:30; Jordan Hall; Haydn's Quartet op. 76, Schubert's Quartet in E major, Brahms' Quartet op. 61; series tickets for three performances, \$10.00, \$9.00, \$7.50, \$5.00.

Smothers Brothers — Symphony Hall, Nov. 20, \$4.75, \$3.75, \$2.75.

'H.M.S. Pinafore' — MIT Gilbert and Sullivan Society, Nov. 20-21, 8:30, Kresge Auditorium, \$1.50 in the lobby of Building 10 or at the box office.

Folklore Concert Series — Alfred Deller and the Deller Consort, Nov. 21, 8:30, Jordan Hall; \$4.00, \$3.25, \$2.50, \$2.20.

Gardner Museum — the Curtis String Quartet, Nov. 22, 3:00, Haydn's Quartet in C major, Beethoven's Quartet in C major; free.

Marian Anderson — farewell concert, Symphony Hall, Nov. 22.

BU Faculty Recital — Alfred Karpwischer, pianist, Nov. 23 8:30, Boston University Concert Hall, works of Bach, Barber, Beethoven, Chopin, free.

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MISCELLANEOUS

Ford Hall Forum — James Farmer, National Director of CORE, 'New Trends in the Civil Rights Struggle', Jordan Hall, Nov. 22, 8:00, free.

Sculpture Exhibit — Hayden Library, through Dec. works of nine American sculptors: Agostini, Frank, Golo, Horvitt, Oate, Sugarman, Tarr.

Cambridge Society for Early Music — Ralph Kirkpatrick, harpsichord; Nov. 23, 8:00 p.m.; Sanders Theatre, single tickets, \$2.00 to \$4.00, series tickets \$5.00 to \$10.00; program: entire first book of the 'Well-Tempered Klavier', Johannes Bach.

Chad Mitchell Trio — Kresge Auditorium; Nov. 24, 8:00 p.m.; admission \$1.00.

LECTURE

X. J. Kennedy — Poetry reading and discussion, Nov. 18, 8:30 p.m.; Hayden Library Lounge; admission free.

Tuesday Public Forum — Norman Thomas, 'Is There Time to be Wise?' Nov. 24, 8:00 p.m.; the Arlington Street Church.

Jordan Hall — The Snowman, 'Abominable Man'.

NEXT WEEK MUSIC

Friends of Armenian Culture Society — Armenian Christmas Carols Concert, Nov. 27, 8:30 p.m.; Jordan Hall.

Celebrity Series — Massed Bands, Drums, Company of 100, Pipers and Dancers from Great Britain, 'Pop and Ceremony'; Nov. 27, evening; Boston Garden.

Leahurst Kirov Ballet — Nov. 29, afternoon; Music Hall.

Cambridge Society for Early Music — Orchestra, choir, soloists, conducted by G. Wallace Woodworth; November 30, 8:30 p.m.; Cambridge Sanders Theatre; single tickets, \$2.00, \$3.00, \$4.00; series tickets, \$5.00, \$7.50, \$10.00; program: Cantatas of Bach, 'Passion' of Schutz.

Boston University Faculty Recital — David Blair McClosky, baritone; December 1.

LECTURE

Ford Hall Forum — James W. Silver, 'Mississippi: The Closed Society'; November 29, 8:00 p.m., Jordan Hall; admission free.

Mitchell Trio to perform



The Mitchell Trio, left to right Mike Kobluk, Chad Mitchell, and Joe Frazier, will make their first MIT appearance Tuesday, November 24 at 8:00 at Kresge Auditorium. Better known as the Chad Mitchell Trio, this group has been on the college circuit for several years singing folk songs and satires. Their version of "The John Birch Society" raised storms of protest and their neo-Nazi number has been banned on TV. Tickets went on sale yesterday in the lobby of Building 10. They are \$1.00. An activities or staff card is required for purchase and a maximum of two tickets may be bought per card. Due to the popularity of the group, LSC expects all tickets to be sold the first day.

Movie Schedule

ASTOR — 'Youngblood Hawke,' no times available.

BEACON HILL — 'Topkapi,' no time available.

BOSTON CINERAMA — 'Mediterranean Holidays,' evenings 8:00, matinees Wed., 2:00 Sat. and Sun. 2:00 and 5:00.

BRATTLE — Through Sat.: Polanski's 'Knife in the Water' plus his short 'Two Men and a Wardrobe.' Sun.-Mon.-Tues.: 'No Sun in Venice.' Shows daily 5:30, 7:30, 9:30, matinees Saturday and Sunday at 3:30.

CAPRI — 'The Candidate,' no times available.

COOLIDGE CORNER — 'Yesterday, Today, and Tomorrow,' 2:10, 8:40, Sat., 5:05, 7:40, 10:00, Sun., 8:05, 8:35.

EXETER — through Nov. 19, 'Murder Ahoy,' 2:00, 3:45, 5:35, 7:20, 9:10; starting Nov. 20, 'The Finest Hours,' no times available.

GARY — 'Mary Poppins,' 9:00, 11:30, 2:00, 4:30, 7:30, 9:30.

HARVARD SQUARE — 'Fail Safe,' 2:40, 6:10, 9:40; 'No My Darling Daughter,' 1:15, 4:40, 8:10, Sun.-Mon.-Tues.: 'The Visit,' 2:45, 6:10, 9:35; Maugham's 'Trio,' 1:15, 4:35, 8:00.

KEITH MEMORIAL — 'Kitten With a Whip,' no times available.

LOEW'S ORPHEUM — 'Goodbye Charlie,' 4:54, 7:16, 9:38.

MUSIC HALL — 'Where Love Has Gone,' no time available.

PARAMOUNT — 'The Outrage' no times available.

PARIS CINEMA — 'Lili,' 2:00, 4:00, 6:00, 8:00, 10:00.

SAXON — 'My Fair Lady,' evenings 8:30, matinees Wed., Sat., and Sun., 2:00.

UPTOWN — 'Roustabout,' 11:00, 2:30, 6:05, 9:45, Sun., 2:50, 6:25, 9:55; 'Fate is the Hunter,' 12:35, 4:15, 7:50, Sun., 1:00, 4:30, 8:05.

Theatres

CHARLES PLAYHOUSE — 'The Rivals,' opening Nov. 11, Tues.-Fri. 8:30, Sat., 5:30, 9:00, Sun., 3:00, 7:30.

COLONIAL — 'Poor Richard,' evenings 8:30, matinees Thurs., 2:15, Sat., 2:30.

HOTEL BOSTONIAN PLAYHOUSE — 'Caligula,' Mon.-Fri. 8:30, Sat. 6:30, 9:30, Sun., 6:00, 8:30.

SCHUBERT — 'She Stoops to Conquer,' 'Hedda Gabler,' and 'Lilom,' in random sequence, evenings 8:30.

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Clinical Research Center seeks protein requirements, effects of beryllium, understanding of brain functions

(Continued from Page 3)

cesses, is under study at the clinic by Dr. Harriet Hardy of the Medical Department. Beryllium disease is typical of a wide range of industrial illnesses, and methods of its control are widely applicable.

Dr. Hardy, who has done much of the original work in this field, is studying the mechanism of beryllium poisoning. Believing calcium to be an important factor in the progression of this illness, she is studying the effects of controlling calcium in the diet.

With over thirty people on the clinic's staff, the psychology department is finding it possible to study patients requiring special medical attention. As part of a continuing project, Dr. Han-Lukas Teuber, the department chairman, and his colleague, Dr. Thomas Twitchell, are working with patients suffering various head injuries.

As with past efforts, this work tries to advance the understand-

ing of brain functions by analysis of the ways in which sensation or movement are changed in the presence of various brain lesions. Malfunction is assessed by quantitative methods, including special EEG techniques such as computer averaging of brain potentials.

Recovery of functions is also under study, particularly in cases where social deprivation has exaggerated the impairment that results from early damage to the brain.

Final responsibility for the clin-

ical aspects of these projects is held by Dr. Albert O. Seeler, director of the MIT Medical Department.

Local medical supervision of the center is exercised by Dr. Lillian Barlow who serves in the double capacity of assistant program director and medical supervisor. She has previously done basic and clinical research in metabolism at Peter Bent Brigham Hospital and at the Harvard Medical School.



HARVARD SQ UN 4-4580

"Fail Safe," 2:40, 6:10, 9:40;
 "No, My Darling Daughter," 1:15, 4:40, 8:10, Sun.-Mon.-Tues.:
 "The Visit," 2:45, 6:10, 9:35;
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BRATTLE SQ TR 6-4226

Through Sat.: Polanski's "Knife in the Water" plus his short "Two Men and a Wardrobe." Sun.-Mon.-Tues.: "No Sun in Venice." Shows daily 5:30, 7:30, 9:30, matinees Saturday and Sunday at 3:30.

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LILIOM

Translated by Benj. F. Glazer

Directed by EVA LEGALLIENNE

GOLDSMITH'S
SHE STOOPS TO CONQUER

Directed by JACK SYDOW

ISSERLIS
HEDDA GABLER

Translated and Directed by EVA LEGALLIENNE

PAULA BAUERSMITH FRANCIS BETHENCOURT THAYER DAVID
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'You know I'm innocent'



Photo by Bill Ingram

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THIS WEEK MUSIC	S	M	T	W	T	F	S
New England Conservatory Symphony Orchestra — Guest soloist Richard Kapuscinski, cello; Nov. 19, 8:30 p.m.; Jordan Hall; admission free; program: Bloch, 'Schelomo', Martirano, 'Contrasto', and Brahms, 'Symphony of vocal music'; Nov. 18, phony No. 1 in C minor.	22	23	24	18	19	20	21
New England Conservatory Chorus — 8:30 p.m.; Jordan Hall; admission free; program: Mozart, 'Mozarte, Brahms, 'Mädchenlied', 'Sommerabend', 'Das Mädchen Spricht', 'Alte Liebe', 'Salamander', Britten, 'A Charm of Lullabies', Mozart, 'Chio mi scordi di te', 'Nom tenor, amato bene', Schumann, 'Spanisches Liederspiel'.	29	30	1				
Glass Harmonica Concert—Recital given by Bruno Hoffmann; Nov. 20, 8:30; Kresge Auditorium Little Theatre; admission \$1.00.							
Boston Symphony String Quartet — Nov. 20, 8:30; Jordan Hall; Haydn's Quartet op. 76, Schubert's Quartet in E major, Brahms' Quartet op. 67; series tickets for three performances, \$10.00, \$9.00, \$7.50, \$5.00.							
Smothers Brothers — Symphony Hall, Nov. 20, \$4.75, \$3.75, \$2.75.							
'H.M.S. Pinafore' — MIT Gilbert and Sullivan Society, Nov. 20-21, 8:30; Kresge Auditorium, \$1.50 in the lobby of Building 10 or at the box office.							
Folklore Concert Series — Alfred Deller and the Deller Consort, Nov. 21, 8:30; Jordan Hall; \$4.00, \$3.25, \$2.50, \$2.00.							
Gardner Museum — the Curtis String Quartet, Nov. 22, 3:00; Haydn's Quartet in C major, Beethoven's Quartet in C major; free.							
Marian Anderson — Jarewell concert, Symphony Hall, Nov. 22.							
BU Faculty Recital — Alfred Kanwischer, pianist, Nov. 23 8:30; Boston University Concert Hall, works of Bach, Barber, Beethoven, Chopin, free.							

MISCELLANEOUS
 Ford Hall Forum — James Farmer, National Director of CORE, 'New Trends in the Civil Rights Struggle', Jordan Hall, Nov. 22, 8:00, free.
 Sculpture Exhibit — Hayden Gallery, through Dec. works of nine American sculptors, Agostini, Frank, Goto, Horwitz, Odate, Sugarman, Fair.
 Cambridge Society for Early Music — Ralph Kirkpatrick, harpsichord; Nov. 23, 8:00 p.m.; Sanders Theatre, single tickets, \$2.00 to \$4.00, series tickets \$5.00 to \$10.00; program: entire first book of the 'Well-Tempered Klavier', Johannes Bach.
 Chad Mitchell Trio — Kresge Auditorium; Nov. 24, 8:00 p.m.; admission \$1.00.

LECTURE
 X. J. Kennedy — Poetry reading and discussion; Nov. 18, 8:30 p.m.; Hayden Library Lounge; admission free.
 Tuesday Public Forum — Norman Thomas, 'Is There Time to be Wise?' Nov. 24, 8:00 p.m.; the Arlington Street Church.
 Jordan Hall — The Snowman, 'Abominable Man.'

NEXT WEEK
 Friends of Armenian Culture Society — Armenian Christmas Carols Concert; Nov. 27, 8:30 p.m.; Jordan Hall.
 Celebrity Series — Matted Bands, Drums, Company of 100. Pipers and Dancers from Great Britain, 'Pomp and Ceremony'; Nov. 27, evening; Boston Garden.
 Leningrad Kirov Ballet — Nov. 29, afternoon; Music Hall.
 Cambridge Society for Early Music — Orchestra, choir, soloists, conducted by G. Wallace Woodworth; November 30, 8:30 p.m.; Cambridge Sanders Theatre; single tickets, \$2.00, \$3.00, \$4.00; series tickets, \$5.00, \$7.50, \$10.00; program: Cantatas of Bach, 'Passion' of Schutz.
 Boston University Faculty Recital — David Blair McClosky, haritone; December 1.

LECTURE
 Ford Hall Forum — James W. Silver, 'Mississippi: The Closed Society'; November 29, 8:00 p.m., Jordan Hall; admission free.

Columbia College tuition hits \$1900

Columbia University announced last week tuition increases which will cost students in most divisions of the University about \$200. Most full time students will then be paying between \$1700 and \$1900.

Tuition in Columbia College will be \$1900. This amounts to a 73 per cent increase in the past six years.

The tuition increases will go into effect with the entering class next fall.

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Mitchell Trio to perform



The Mitchell Trio, left to right Mike Kobluk, Chad Mitchell, and Joe Frazier, will make their first MIT appearance Tuesday, November 24 at 8:00 at Kresge Auditorium. Better known as the Chad Mitchell Trio, this group has been on the college circuit for several years singing folk songs and satires. Their version of "The John Birch Society" raised storms of protest and their neo-Nazi number has been banned on TV. Tickets went on sale yesterday in the lobby of Building 10. They are \$1.00. An activities or staff card is required for purchase and a maximum of two tickets may be bought per card. Due to the popularity of the group, LSC expects all tickets to be sold the first day.

Movie Schedule

- | | |
|--|---|
| ASTOR — 'Youngblood Hawke,' no times available. | PARAMOUNT — 'The Outrage' no times available. |
| BEACON HILL — 'Topkapl,' no time available. | PARIS CINEMA — 'Lili,' 2:00, 4:00, 6:00, 8:00, 10:00. |
| BOSTON CINERAMA — Mediterranean Holidays, evenings 8:00, matinees Wed., 2:00 Sat. and Sun. 2:00 and 5:00. | SAXON — 'My Fair Lady,' evenings 8:30, matinees Wed., Sat., and Sun., 2:00. |
| BRATTLE — Through Sat.: Polanski's 'Knife in the Water' plus his short 'Two Men and a Wardrobe,' Sun.-Mon.-Tues.: 'No Sun in Venice.' Shows daily 5:30, 7:30, 9:30, matinees Saturday and Sunday at 3:30. | UPTOWN — 'Roustabout,' 11:00, 2:30, 6:05, 9:45, Sun., 2:50, 6:25, 9:55; 'Fate Is the Hunter,' 12:35, 4:15, 7:50, Sun., 1:00, 4:30, 8:05. |
| CAPRI — 'The Candidate,' no times available. | CHARLES PLAYHOUSE — 'The Rivals,' opening Nov. 11, Tues.-Fri. 8:30, Sat., 5:30, 9:00, Sun., 3:00, 7:30. |
| COOLIDGE CORNER — 'Yesterday, Today, and Tomorrow,' 2:10, 8:40, Sat., 5:05, 7:40, 10:00, Sun., 6:05, 8:35. | COLONIAL — 'Poor Richard,' evenings 8:30, matinees Thurs., 2:15, Sat., 2:30. |
| EXETER — through Nov. 19, 'Murder Ahoy,' 2:00, 3:45, 5:35, 7:20, 9:10; starting Nov. 20, 'The Finest Hours,' no times available. | HOTEL BOSTONIAN PLAYHOUSE — 'Calligula,' Mon.-Fri. 8:30, Sat. 6:30, 9:30, Sun., 5:00, 8:30. |
| GARY — 'Mary Poppins,' 9:00, 11:30, 2:00, 4:30, 7:30, 9:30. | SCHUBERT — 'She Stoops to Conquer,' Hedda Gabler, and Liliom, in random sequence, evenings 8:30. |
| HARVARD SQUARE — 'Fail Safe,' 2:40, 6:10, 9:40; 'No My Darling Daughter,' 1:15, 4:40, 8:10, Sun.-Mon.-Tues.: 'The Visit,' 2:45, 6:10, 9:35; Maugham's 'Trio,' 1:15, 4:35, 8:00. | |
| KEITH MEMORIAL — 'Kitten With a Whip,' no times available. | |
| LOEW'S ORPHEUM — 'Goodbye Charlie,' 4:54, 7:18, 9:38. | |
| MUSIC HALL — 'Where Love Has Gone,' no time available. | |

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Clinical Research Center seeks protein requirements, effects of beryllium, understanding of brain functions

(Continued from Page 3)

cesses, is under study at the clinic by Dr. Harriet Hardy of the Medical Department. Beryllium disease is typical of a wide range of industrial illnesses, and methods of its control are widely applicable.

Dr. Hardy, who has done much of the original work in this field, is studying the mechanism of beryllium poisoning. Believing calcium to be an important factor in the progression of this illness, she is studying the effects of controlling calcium in the diet.

With over thirty people on the clinic's staff, the psychology department is finding it possible to study patients requiring special medical attention. As part of a continuing project, Dr. Han-Lukas Teuber, the department chairman, and his colleague, Dr. Thomas Twitchell, are working with patients suffering various head injuries.

As with past efforts, this work tries to advance the understand-

ing of brain functions by analysis of the ways in which sensation or movement are changed in the presence of various brain lesions. Malfunction is assessed by quantitative methods, including special EEG techniques such as computer averaging of brain potentials.

Recovery of functions is also under study, particularly in cases where social deprivation has exaggerated the impairment that results from early damage to the brain.

Final responsibility for the clin-

ical aspects of these projects is held by Dr. Albert O. Seeler, director of the MIT Medical Department.

Local medical supervision of the center is exercised by Dr. Lillian Barlow who serves in the double capacity of assistant program director and medical supervisor. She has previously done basic and clinical research in metabolism at Peter Bent Brigham Hospital and at the Harvard Medical School.



HARVARD SQ. UN 4-4580

"Fail Safe," 2:40, 6:10, 9:40;
 "No, My Darling Daughter," 1:15, 4:40, 8:10, Sun.-Mon.-Tues.:
 "The Visit," 2:45, 6:10, 9:35;
 Maugham's "Trio," 1:15, 4:35, 8:00.

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Through Sat.: Polanski's "Knife in the Water" plus his short "Two Men and a Wardrobe," Sun.-Mon.-Tues.: "No Sun in Venice." Shows daily 5:30, 7:30, 9:30, matinees Saturday and Sunday at 3:30.

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Outlook remains bright

Samuelson sees higher employment

(Continued from Page 3)

vice is likely. This would release two or three billion dollars into the economy.

He stated further, "I'd be surprised if we got more of a tax break, other than a reduction of excise taxes, after the big cut this last year."

Commenting on Johnson's cut-back in government spending during the past year, he stated, "A restraint in the budget could be stood in a year where there was an 11 to 12 billion dollar tax cut, but I'm not sure it would be a good idea in the years ahead."

While advocating an expansion of government spending, he stressed the distinction between efficiency and scope in government programs. Samuelson pointed out that an increase in federal spending would not necessarily mean a decrease in government frugality.

If frugality were increased, money saved from the more efficient conduct of necessary and existing government projects could

be spent on welfare projects that are worthwhile for their own sake. Among these, he mentioned urban renewal.

As a final measure to reduce "fiscal drag", he suggested that the federal government share more of its revenues with the state and local governments "which have tremendous needs and rotten tax systems."

On the subject of unemployment, he feels that "it is within our power to get down to 4% unemployment. We ran a sluggish economy in the last part of the '50's. We're straining hard, but I wish we'd run a little harder. The risk to take is a little price inflation, but the risk is worthwhile if we can go from 5% unemployment to a 4% level."

Finally, he commented on the recent elections, stating "My own feeling is that if you were an intelligent conservative you would try to slow things down rather than polarize them as Goldwater did; he did the conservative cause great harm. A strong defeat of Goldwater may give the Republican party a chance to come back and reform to its true nature".

He does not feel that the landslide victory for Johnson will "plunge us down any new road."

Institute closes early during holiday time

The Institute will close down all Physical Plant and related operations at noon Thursday, December 24 and also Thursday, December 31. This announcement came last week from the office of Phillip A. Stoddard, Vice-President in charge of operations and personnel. December 25 and January 1 are regular holidays for all Institute employees.

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IFC expands activities to include new community relations programs

The Interfraternity Conference has been successful in initiating several new programs this fall, according to Alan Steinman, Publicity Chairman. Community relations, the upcoming Blood Drive, and social service work at neighborhood hospitals have been given major priority by the IFC. This in turn has given favorable publicity to the MIT fraternity community.

The second annual IFC Blood Drive is now seeking volunteers from the fraternities to donate blood for the New England Hemophilia Society. The drive will be held this Thursday, November 19, in Kresge, and it is hoped that the 211 pints of last year's highly successful initial program can be topped. Under the direction of Jim Sweeney at Chi Phi, the drive will produce a valuable supply of needed blood for the patients

at New England, and at the same time contribute a substantial service to the community by the IFC.

The Volunteer Mental Hospital Program is now in full swing and is seeking greater support in the MIT community. Initiated in the fall of 1963 the program seeks to aid the patients at Boston State Mental Hospital through student visits and activities. Conditions at the hospital are somewhat desperate, for there are only 12 doctors and 30 registered nurses to care for the 2300 patients. Moreover, facilities are poor, living quarters are overcrowded, and there is a severe lack of contact for these patients with the real world outside.

The students who now participate in the program make weekly visits to the hospital, and fraternities have sent pledges to assist in bringing enjoyment to the often neglected patients.

Transport studies many factors for research on HSGT project report

(Continued from Page 5)

be kept below damaging levels. Human response capacities also must be considered. Conditions should be kept at a level at which times for human response are not too great for the circumstances.

Construction technology for underground, ground level and elevated systems must also be analyzed. In each of these cases, both technological feasibility and cost factors should be considered.

To solve many of these problems, system simulation can be used. Systems simulation includes the advantages of modelling in some detail complex proposed system both to gain considerable prior information on system behavior, good operating practices, likely problem areas, and to train key personnel in the performance of control tasks. However, the development of such a model requires extensive research itself.

In conclusion, there can be seen to be three basic types of problems: 1) Those having no present technological solutions, 2) Those having intolerably expensive solutions, and 3) Those having feasible solutions but unknown public response. The purpose of the present research by Project Transport is the definition of precise areas of long-term research, which will have as its objective the creation of some new kind of greatly improved high speed ground transportation, with specific applications in the Northeast Corridor.

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- BACH: FOUR CONCERTOS FOR HARPSICHORD AND ORCHESTRA
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NASA's Research Center to begin recruiting of 900-member staff

The NASA Electronics Research Center (ERC) tentatively planned for a 42-acre site in Kendall Square will start recruiting for its proposed 900-member science and engineering staff.

According to Dr. Albert Kelley, Associate Director of ERC, NASA is trying to get half of its professional staff "fresh out of college." Of these, about 70% will have bachelors' degrees.

Dr. Kelley, a former experimental test pilot and MIT graduate student, points out that NASA

wants to recruit young men and train them as their work requires. Because of this, ERC will be carefully searching local graduating classes during the next five to seven years of the Center's building period.

The main purpose of ERC, says Dr. Kelley, is to promote and coordinate research that will lead to sophistication of present electronic systems and the development of future electronics needs. While most NASA installations work on current space programs, the mission of ERC will be to plan ten or twenty years ahead in order to always have the electronic capability when it is required.

Discussion planned

The MIT Society for Social Responsibility in Science will hold an open discussion on "The 40 Temptations of the Industrial Scientists," Monday, November 23, in the Spofford Room, 1-236, at 8:00 p.m.

Intramural hockey starts ice competition shortly

The new season for intramural hockey competition will soon be underway, with operations much as they were last year. Theta Delta Chi will defend the league title it won from Theta Chi by a 9-2 score in last year's tournament. Preliminary scheduling places the twelve teams in that tournament in the major division, with the other teams fighting it out in the minor division.

The two major postseason events are the league championship and the annual intramural All-Star game between the best players of the odd and even-numbered teams on the original schedule. Last year's semi-finalists Grad House and Senior House are also expected to be strong competitors.

Semi-formal dance to be held by ISC

The International Students Council will sponsor an all-campus, semi-formal dance at the Statler Hilton Hotel Friday, December 4. The dance will begin at 8:00 p.m. and extend to 1:00 in the morning. Entertainment will be furnished by the Harry Marchand Band and the hotel will serve refreshments.

Tickets are now on sale in the lobby of Building 10 at the price of \$4.00 per couple.

Social work, blood drive, charities head list of activities for TCA

(Continued from Page 2)

their desire as to where they wished the money to be donated. The five charities receiving a portion of the money were World University Service, United Fund of Greater Boston, CARE, The American Cancer Society, and The Settlement Houses of Cambridge. The largest portion was donated to the American Cancer Society.

Another of the major community services of the TCA is its annual blood drive. Last year, MIT had the largest blood drive on peace time record in Massachusetts. . . and, not all the blood that might have been donated was collected due to a staff shortage! "This year," stated TCA president John Davis, "we will have an additional unit ready to help collect blood." The blood drive will be held from March 22-26, 1965. TCA has hopes that perhaps this year, MIT will surpass last year's record of 1325 pints of blood.

Social Service also encompasses a great deal of TCA's activities. The Social Service Division in conjunction with the rest of the Association will hold a Christmas party for underprivileged children in Walker Memorial during mid-December. This year, much of the TCA's social service program is centered around mental hospital work. The volunteers work at Boston State Mental Hospital. Freshman work on Tuesday evening and non-freshmen on either Tuesday or

Thursday evening. This program, started by Bill Roesler, 65, is a fruitful one, for both the community and the volunteers. Volunteers give patients art instruction, reading sessions, etc. Professional psychiatrists often explain to the volunteers various aspects of psychiatric work.

The TCA is responsible for handling nearly \$80,000 worth of business a year. The TCA sells tickets for everything from travel to theater. The ticket sales account for \$60,000 worth of business a year. Other activities such as book rentals, typewriter rentals, etc. handle \$22,000 a year. Finally the TCA general budget for this year is \$14,610. Officers of TCA include: Roger Roseman, treasurer; Bill Roesler, Vice President; and Paul Lindsey, Secretary.

The TCA will move into the new student center building the summer or early fall of 1965. It will occupy six rooms, consisting of an office, a general office, the publicity center, the duplicating room, a lounge, and a storage room. On completion of the student center, TCA hopes to expand its activities further.

All of the various activities of TCA are staffed by MIT students. Smokers every fall enable prospective members to find out about the TCA projects. Later in the year prospective members can contact any of the officers through the TCA office in Walker Memorial.

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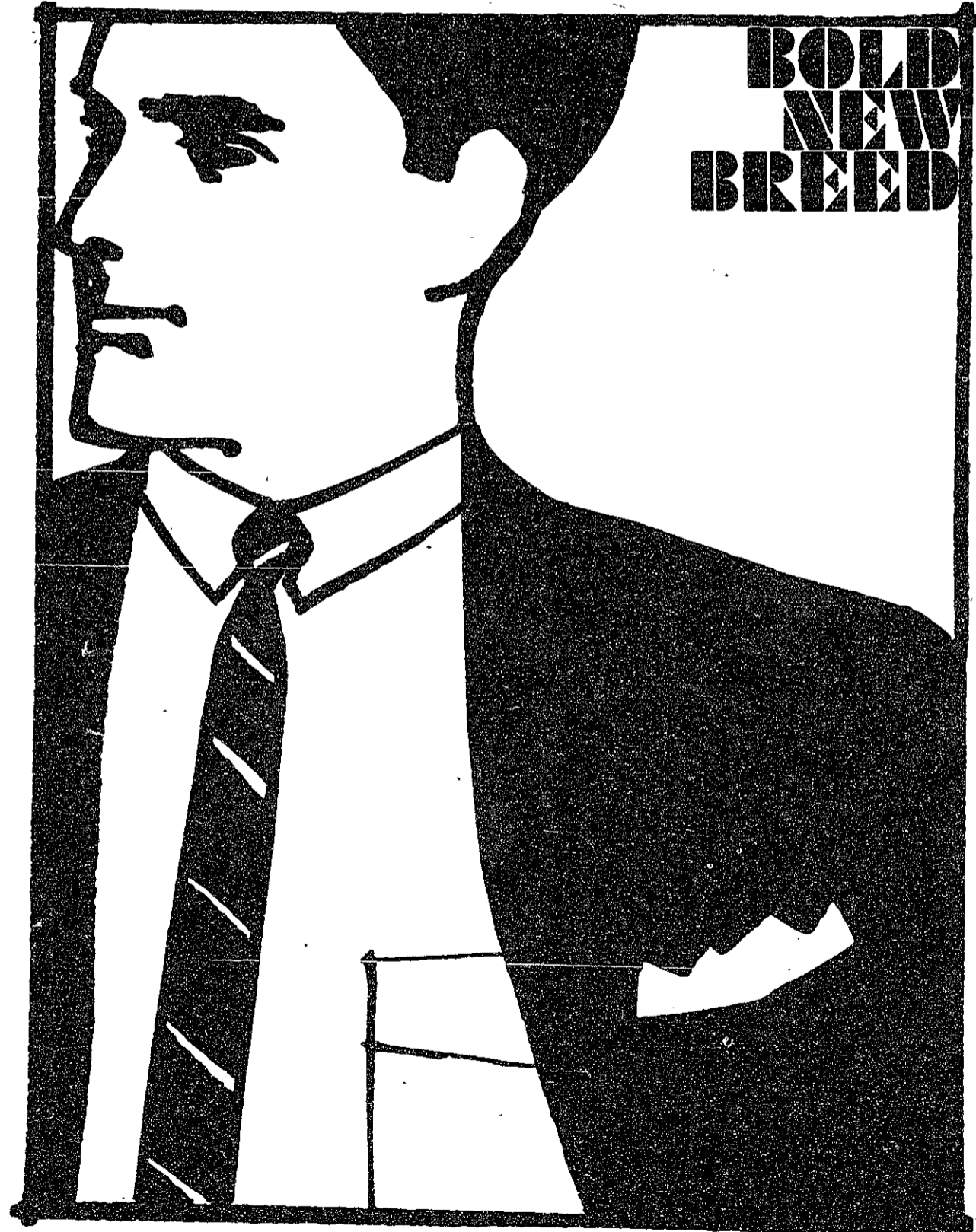
4. It used to be they would give you a hint when they had plans.
Not any more. Now it's cool, cool, cool



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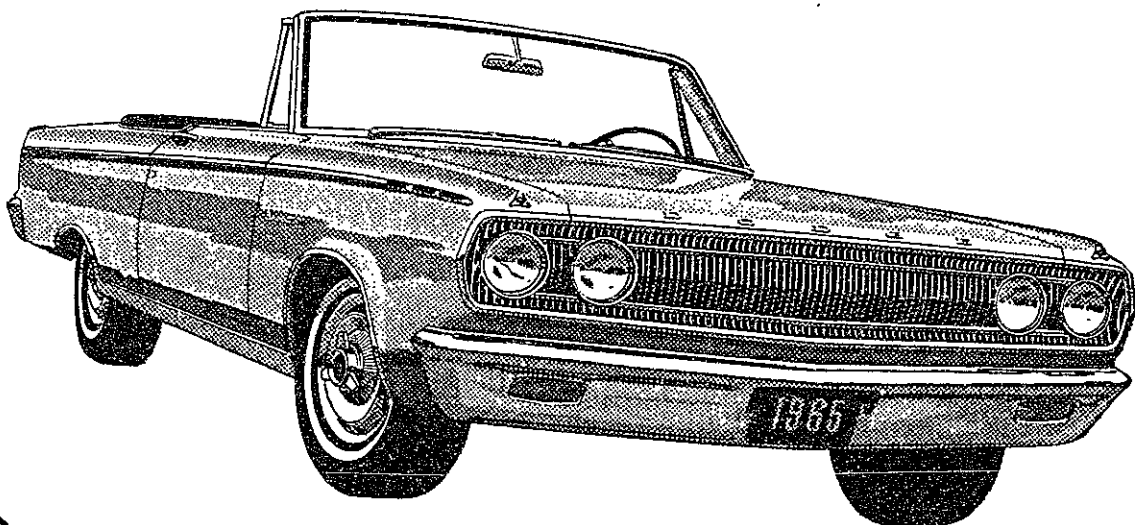
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Looking Back

By Jeff Trimmer

10 Years Ago
 '57 Field Day Victors, 14-11; Glove Fight Deciding Factor As Sophs Overcome 11-1 Frosh Lead. . . . And the Field Day score became 11-8. It was all up to the Glove Fight.

It was getting colder and raining harder. The class of '58 had an unbeatable plan. . . or so they thought. They had obtained an armored car and planned to put all their gloves on several of their men, (just to make things legal) inside of the vehicle. The judges thought it over for half an hour and finally decided to rule the armored car illegal. . . . The frosh had been fooled, the sophs had won the glove fight, 85-25, and the Day, 14-11.

(It is interesting to note that Coach Hedlund, the man who had been predicting Field Day victors for years, guessed wrong as he picked the frosh, 16-9. Recently similar success has been enjoyed by the Tech's crystal ball.)

25 Years Ago
 "Work," concluded John H. Brannon, '41, "is equal to the integral of Fdx." Last Saturday night he dashed out of the DU house hell-bent for leather, and a dinner date. The gears clashed and he eased up on the clutch but to no avail.

"These ——— Chevrolts," he hollered. The motor's drone rose to a tenor, but motion was lacking. He climbed out and raised the

hood. He taxed his Tech education, but the car still would not move. He even inspected the gasoline tank.

Time was fleeting, and so was John's reason. Finally he took off his coat and crawled under the car where lo and behold he found two tidy piles of bricks jacking up the rear axle.

50 Years Ago
 Football spectators will not be permitted to take a little "nip" so as to chase away the chill during the next Yale-Harvard game if Dr. Wiley announces that he will petition the college authorities to have printed on back of tickets a pledge that the holder will not take liquor to the game, and require each spectator to sign it.

75 Years Ago
 One of the most amusing sights to a looker on at the Sophomore Freshman rush was the forced disrobing of some of the participants. One case in particular excited our amusement. The brilliant mind of a Freshman conceived the idea of concealing under his jacket a portion of his class colors, but it never occurred to him what would be the consequences of such an act of forethought in a rush. The result was that the impatient Sophs did not ask him to remove his garments, but tore them from his back, even to the skin. Cries of "Keep your shirt on" were of no avail, and the luckless '93 man was left to ponder on '92's prowess and the success of his scheme.

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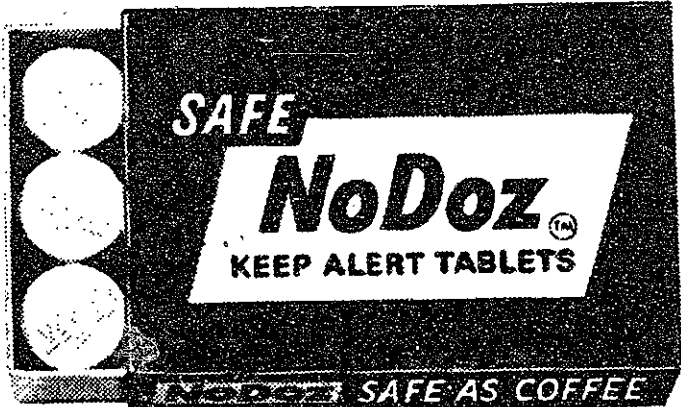
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Burton upsets Senior House

Four teams retain perfect records

By Russ Mosteller
Intramural basketball's third week produced its first real upset: Burton A's 56 to 45 trimming of Senior House A. It also left four teams with perfect records: Graduate Economics Association A (3-0), Grad Management Society (3-0), Political Science (3-0), and Sigma Alpha Epsilon (2-0).

Burton House A accomplished their victory over Senior House A with one of the oldest spoilers in the history of basketball—free throws. Senior House scored from the free throw line only three times all night, while Burton A was converting 20 charity tosses into points. Indicative of the game was the performance of Bill Petrick '65, Burton's top scorer—ten of his sixteen points came on free throws. The game left both teams with 2-1 records.

SAE tops Theta Chi

The closest game of the week was the one between Sigma Alpha Epsilon and Theta Chi. Theta Chi jumped off to an early lead and was ahead at halftime, 22-13. SAE came scrambling back and, with two minutes left in the game, tied the score, 30 all. At this point SAE came through with a three



Photo by Scott Marmel

A Nuclear Engineering player shoots against Senior House "B" in a game played Thursday night in Rockwell Cage. Herb Messenger '66 defends as teammates Dave Pack '68 and Tom Keenan '66 watch. Senior House lost 57-26.

point play, and that was the ball game. Ted Nygreen '67 played a great game as the playmaker for SAE.

Baker House A rebounded from last week's close (32-29) loss to Political Science to trounce Grad House A 66-41. Grad House's strategy (fast breaks and presses) backfired on them as it resulted in numerous fouls, which the Bakerites happily converted into points. Baker's superior height (about 3 inches per man) was a decisive factor, as was the scoring of Tom Hedberg '65 and Jim Falender '65.

Lambda Chi wins first
Lambda Chi Alpha rode the

How They Did

Cross-country

MIT (V) placed 10th in New England at Franklin Park

Sailing

MIT (V) placed 2nd in Fowle Trophy at Coast Guard

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double barreled scoring punch of Wayne Haase '65 and Bruce Twickler '67 to a 49-37 win over Westgate. Haase and Twickler tossed in 16 points apiece to aid Lambda Chi cause. It was their first victory of the year (against two losses), while the defeat extended Westgate's losing streak to three games.

The Grad Management-Sigma Epsilon game lasted all of nine minutes. Grad Management led by only one point (11-10) at the end of the first quarter, but their big second quarter ended the game for all practical purposes. The final score was Grad Management 46, SPE 26. An unusual aspect of the game was the 15 points scored by SPE's Mike Hester '65—13 of them came on free throws.

Grad Econ uses zone

Grad Economics tossed a terrific zone defense at Phi Gamma Delta and went on to a 47-28 win. Tom Bolles was particularly outstanding as a playmaker for Grad Econ. The big gun for the Fijis was Joe Blew '64 who tossed in 17 of his team's 28 points. The win kept Grad Econ's perfect record intact, while the Fijis have yet to win.

Phi Mu Delta won its first game of the season by crushing Alpha Tau Omega 56-41. The game was tight and tense throughout the first half, as indicated by the halftime score of 21-21. The second half was a different story, however, as the Delts got red hot. Spearheaded by the 21 point scoring of Bob Yanus '65, they led by as much as 20 points late in the fourth quarter.

PS still undefeated

Political Science remained in the ranks of the undefeated by dusting off Sigma Alpha Mu, 55-27. The Sammies are still looking for their first victory. Harper Keeler was Poly Sci's top scorer with 12 points.

Stu Nemser '66 of the Sammies extended his string of two-figure games to three with a fourteen point performance.

Intramural Results

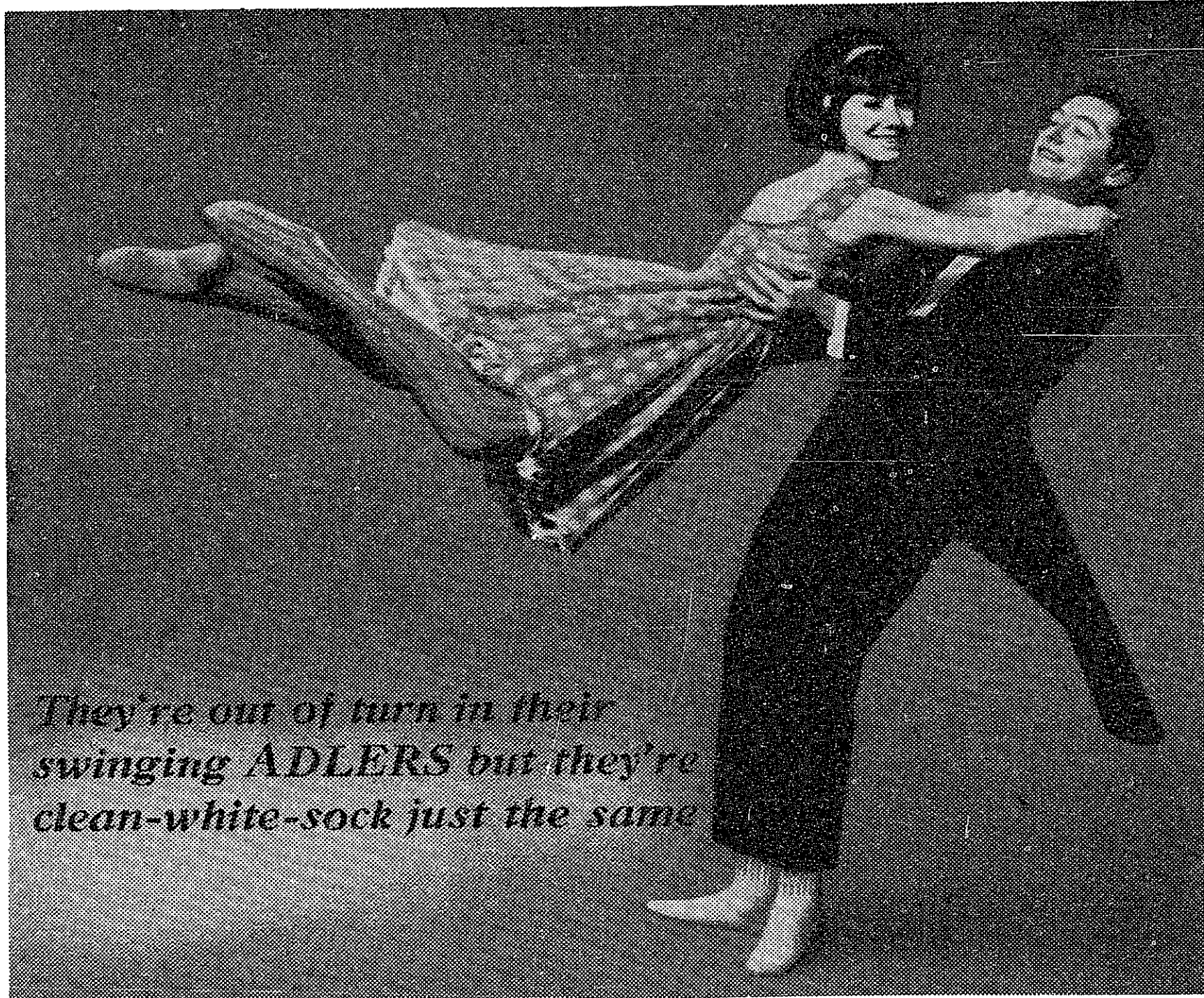
Minor league basketball

- Conner First 20, PSK 17 (overtime)
- DTD 30, DU 46
- Chem. A 59, Chinese Students 29
- EC Fourth 41, Burton Rebels 34
- ZBT 44, SPE B 19
- PDT 45, Grad House C 33
- Chemistry B 41, NRSA 36
- Burton B 57, Grad House B 38
- AEPi 40, Baker B 27
- No. 6 35, AEPi B 25
- EC Bemis 35, CP 33 (overtime)
- Baker E 37, TDC 36
- DKE 77, PLP B 15
- Bexley 37, Baker C 35
- Senior House C 16, Sig Ep C 15
- Nuc. Eng. 57, Senior House B 26
- PLP 62, Grad Econ B 37

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THE TECH COOP

Win 7 of 12

Sailors lose Team Racing Championship to URI in finale

The varsity sailors, upset by the University of Rhode Island at the preliminaries, again was upset by them in the Leonard M. Fowle Trophy for the NEISA Team Racing Championships.

The Engineers, slight favorites to win the trophy that has evaded them the last five years, were severely handicapped by the loss of half of the best two-skipper combination in the NEISA, Don Schwanz '66. Chet Osborn '67 moved into the number two spot behind Captain Terry Cronburg '66. Fred Kern '65 and Tom Maier '67 skippered three and four. Jim Cronburg '67, Mike Zuteck '67, Bob Purcell '66, Ed Shaw '65, Joe Ferreira '67, and Mike Johnson '66 crewed.

The races were held on the Thames River at Coast Guard in International 12 ft. Dingies. Both days the winds were light to medium but Saturday Tech won in spite of the winds. They beat Harvard four straight in their best of seven series. Then URI and Coast Guard battled down to the wire, URI coming out on top 4-3.

MIT and URI raced for the championship Sunday and MIT immediately jumped ahead by winning the first race. Then they seasawed a while until it was two up. But URI outsailed the Engineers the next two races and walked home with the honors.

This brings the fall season to a close. The sailors compiled a fantastic record of seven firsts and five seconds. They won five of the seven trophies finished lower than second.

They won their first four trophy they sailed for, and overall never races in a row; the Danmark, the Wood, the Orbeg, and the Nevins Memorial. Then they lost the White Trophy, won the Schell Trophy, and closed out losing the Fowle Trophy. Sandwiched in between were the New England-Mid Atlantic, the Pentagonal, the Heptagonal, and the two preliminaries.

All-Tech Swim will run Saturday; '65 favored

By Cassius Peacock

The senior class is favored to take this year's All-Tech Swim to be held this Saturday. But the freshmen are very close behind and working hard for an upset victory in the annual competition. Qualifying rounds will be starting at 1:00 pm Saturday afternoon with the finals kicking off at 8:00 pm that night.

Entertainment during intermission will feature the Wellesley Water Ballet and a clown diving act. The show is being sponsored by the MIT Swim Club composed of persons who have contributed greatly to Tech swimming.

Grad students are fielding the best team they have had in many years, featuring Bob Martin of Brown, who has a :48.3 100-yard freestyle clocking to his credit as an undergraduate. His time gives the grads a calculated time of 4:05 in the 400-yard medley relay, which matches the time predicted by the seniors on the basis of trials so far.

The meet events will consist of 50, 100, 200, and 500-yard freestyle races, 200-yard backstroke, 200-yard breaststroke, 100-yard butterfly, and 200-yard individual medley. Also included are 3 meter diving, 400-yard freestyle relay, and 400-yard medley relay.

Crews to hold Class Day Races; 1954 Henley Champions to row

The MIT oarsmen will close out their fall practice with the annual Class Day Races on the Charles this Saturday. As a high-

Rugby team wins two more

By Neal Gilman

The MIT Rugby team extended their winning streak to four games this Saturday by defeating Holy Cross 8-3 and 22-8. The team, not losing a game since their first six games, has raised their season's total to 4 wins, 6 losses, and 2 ties.

In the first game, the forwards played outstandingly well. Showing good pursuit and aggressive rushing, the forwards prevented Holy Cross from scoring until the last minute of the game. The first MIT score was by forward Paul Fine, Tech's hooker. He recovered the ball from a line out and powered his way to the opponents try line. Tom Van Teinhoven '66 then converted for 2 points, bringing the score to 5-0. Later in the first half, forward Jim Erman, taking advantage of a blocked kick by Jim Postula '65, scored MIT's other try. The backs, were hampered during the whole game by a strong wind and cold air.

In the second game, Bob Donaldson starred, scoring 16 of a total 22 points. The game for the first half and part of the second was extremely close. Holy Cross scored the first 5 points, but then MIT pulled ahead with Donaldson's two tries and one conversion. In the second half Holy Cross tied the score at 8-8, but suddenly MIT broke lose. Prof. Gordon Oates and Tom Sanford each scored a try while Donaldson scored the rest with a try, conversion, and penalty kick.

By the end of the game, Holy Cross was so subdued that MIT scored 9 points in the last 9 minutes.

light to the six-race program, the MIT lightweight boat that took the Thames Challenge Cup in 1954 at Henley will get out in a shell for an exhibition of winning form.

The afternoon's program gets started with the class boat races for the Richards Cup, with one mile races being run for both heavy and lightweight boats. Then the coxswains row against the managers in the half-mile run for the Charles River Basin. Last year the coxswains won after tying an anchor to the manager's boat.

The freshmen then take to the water in an eleven-boat race. The program is closed out with the House Boat Race and the fours race for grads and alumni.

On Deck
Friday, November 20
Rifle (V)—Boston University, Here, 4:00 pm
Saturday, November 21
Pistol (V)—Villanova, at UMass, 2:00 pm

Cross country ends

Harriers tenth in New England, fourth in Greater Boston Meet

By Armen Varteressian

MIT wound up its varsity cross-country season last week as the Techman ran in the Greater Boston Collegiate Cross Country championships on Tuesday, November 3rd, and in the New England Championships on Monday, the 19th.

Tech placed 4th in a strong field in the Greater Bostons with 104 points, defeating Tufts' 134. Harvard took top honors with 29 points, followed by Northeastern University with 38. Boston College took a third in the meet, edging out Tech by 4 points. In the new England's, Tech was 10th in a field of 21. Top team in the New England's was Providence College, with 47 points. A distant second was the University of Rhode Island, with 131 points, Northeastern took 3rd with 148. Tech score was 248.

Techmen 16th. 18th

Walter Hewlett of Harvard took individual honors in the Greater Boston meet, running the 4.2 mile Franklin Park course in 20:05. He was followed by Northeastern's Dave Dunskey, 28 seconds behind. First Tech harrier to score was Rob Wesson '66, placing 16th in 22:05. Close behind was Bill Purves '66, 18th in 2:18. Dick McMillin, third member of the usually close packed trio, placed 22nd. The other two Tech scorers were Mike Oliver '65, 23rd, and Don Raab, '67, 25th.

Summer Brown '65 of Tech, who did not run in the greater Bostons due to illness, was the top Tech scorer in the New England's, placing 11th. Bill Purves took 49th, Rob Wesson placed 57th, McMillin took 61st, and Oliver was 70th.

Individual honors in the New England's went to Barry Brown of Providence. Ray Crothers of Central Connecticut was second, while Dave Dunskey, Northeastern, took third.

IC4A Meet This Week

This Monday, the Tech team, competed in the IC4A championships in New York's Van Courtland Park. Last year Brown took second place in the meet, and is expected to do well this year also.

Betas win IM running; Fiji Bob Karman first; Burton men show depth

By Jerrold Sabath

The IM Cross Country Meet was held at Briggs Field last Wednesday, November 11, at 3:00 pm. Approximately 130 men from all MIT living groups participated in the 1.8 mile run. The top five harriers from Beta Theta Pi combined for a total of 74 points to edge out Burton House A by a mere four points. Lambda Chi Alpha wrapped up third place, and in a close battle for fourth, Phi Mu Delta squeezed by Phi Kappa Sigma and Phi Gamma Delta.

Individual honors went to Fiji Bob Karman '67 with a record-smashing time of 9:36.2. He was followed by Joel Rogers '65 of Beta Theta Pi, Elliott Andrews '67 of Chi Phi, Bill Morton of Phi Sigma Kappa, and Henry Link '67 of Burton House, in that order.

The top twenty teams were as follows:

Beta Theta Pi A	74
Burton House A	78
Lambda Chi Alpha	123
Phi Mu Delta	202
Phi Kappa Sigma	208
Phi Gamma Delta	208
Sigma Phi Epsilon	257
Burton House B	277
Phi Sigma Kappa	294
Delta Upsilon	313
Phi Delta Theta	315
Chi Phi	337
Sigma Alpha Epsilon	352
Beta Theta Pi B	353
Theta Chi	366
Theta Delta Chi	381
Alpha Epsilon Pi	401
Burton House C	424
Alpha Tau Omega	470
Tau Epsilon Phi	471



Photo by John Torode

Forward Chuck Wade has just caught the ball after a lineout and is starting to advance against Holy Cross in the first game played last Saturday after noon on Briggs Field. Light-shirted Tech ruggers coming up to help out: (l. to r.) Don York, Jim Postula, Dan Burton, and Jim Erman. The MIT rugby team won their 3rd and 4th straight by 8-3 and 22-8 scores.

Sports Spot

Fall season closes out

By Dave Kress

The cold winter weather is starting to roll in, signalling the end of the fall sport season and ushering in the fast approaching winter season. Two signs of this change are happening this Saturday as the crews close out fall practice with the annual Class Day races and the All-Tech Swim Meet kicks off this winter's swimming season.

The last events of the fall season happened last weekend with cross-country and sailing bowing out on sad notes after impressive seasons. The cross-country squad, even though sporting a 6-3 season and second in the Easterns, could manage only 10th place in the New England's. This is only one place better than last year's finish scored by essentially the same team.

The Tech sailors took second in the New England Team Racing Championships to finish 6-2 in the fall trophy competition. This did show improvement over last year's showing when the team didn't even qualify, so the team's weakest area of sailing skill seems to be improving. The fall season points toward a top-notch spring season and maybe a national championship next summer.

The combined records of the fall teams added up to a very good 24-13-1, giving a 645 percentage, the best seen around here in a long time. Hats off to the fall athletes.

Winter season

This brings us around to the winter season, which will be starting in a big way in about two weeks, when almost every team kicks off their season during the

first week of December. Prospects for the winter look good from this vantage point, and Tech sport fans should be able to brag just as loudly about the winter teams as he has been over the fall teams.

The basketball team expects to see its first few games tell quite a story about the coming season. The graduation loss of the big men and high point scorers Jack Moter and Bill Eagleson will have its effect, but it can't be said this early just how big this effect will be. Filling one of those vacated front-line spots will be Alex Wilson, standout on last year's 14-1 freshman squad.

The guard situation looks very strong, especially since regulars Frank Yin '65 and Jack Mazola '65 are having to fight for their spots. Untested forwards and centers should they fill the line-up well from the start, will make for a very good season this winter, but if the team jells slowly, we may be waiting 'til January for the now traditional top cage action at Tech.

Wrestlers lose only one

The wrestlers are expecting to return to the form they exhibited two years ago, when they went 10-3-1 for the season and picked off second in the New England's. There are lettermen returning at every spot but one, where 157-pound, undefeated Mike Williams graduated. These lettermen, coupled with last year's frosh, who were third in New England along with two individual champions, should score one of the best wrestling seasons seen here in a while.

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