

To study disarmament

International Study Center gets \$210,000 contract

Two contracts totaling \$210,000 have been awarded to MIT for studies of means toward disarmament and arms control by the Arms Control and Disarmament Agency.

The contracts are the first of this kind by the agency to a university. The research will be conducted in the Center for International Studies. It will be supervised by Dr. Lincoln P. Bloomfield, professor of political science.

One contract, for \$65,000, calls for an examination of Soviet motivations and an analysis of Soviet interest to determine what objectives the Soviets believe would be served by various arms-control and disarmament measures.

This investigation will also include a study of arms-control and disarmament measures on Soviet society. In particular, it will deal with the possible changes in Soviet internal practices and ideology which would be required by Soviet acceptance of such measures.

The second contract, for \$145,000,

calls for a study of the problems bearing on regional arms-control and disarmament arrangements for Latin America, Africa, and the Middle East.

The second study will be concluded by September, 1964, and the first by December, 1964.

The Center for International Studies was established in 1951. It is a part of the School of Humanities and Social Science. Dr. Max F. Millikan is director.

MIT sees \$1 million deficit

The Institute's operating expenses will exceed revenues by about \$1 million in the forthcoming year, according to President Julius A. Stratton.

Calling the deficit "not alarming," Stratton said that "we ought to consider a period of consolidation" and of decision on how to "focus our efforts."

Last year the annual operating deficit was \$300,000. Stratton noted that the estimate for next year is smaller than the \$1.5-million deficit which inspired the last tuition increase.

Benson R. Snyder, treasurer of

the corporation, commented that the deficit is practically insignificant when compared to the magnitude of the Institute's budget. He added that MIT is in generally healthy financial position.

Last year's budget amounted to about \$120 million, of which about \$90 million was spent on sponsored research and about \$30 million on educational and general operating expenses. About \$64 million of the research revenues came through the Lincoln Laboratory and Instrumentation Laboratory.

President Stratton said the deficit is the result of rising faculty salaries and recent changes in MIT's physical plant. He said that these "current changes have put an unusually heavy demand on our operating funds."

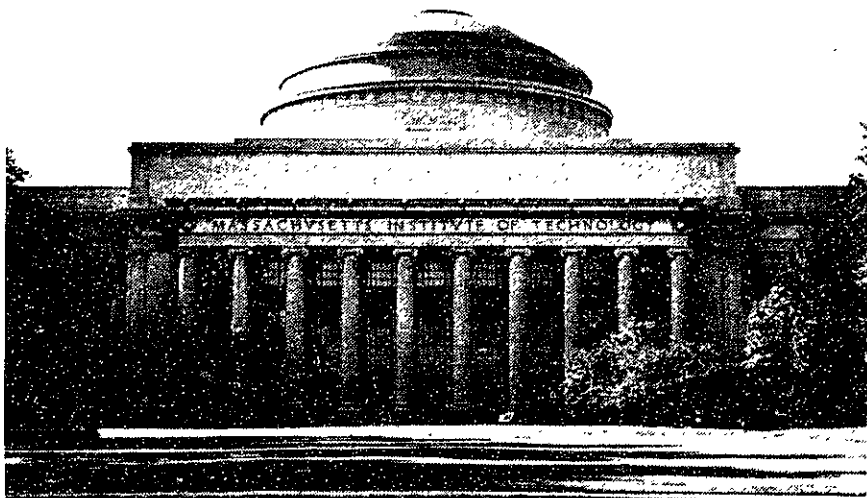
In the President's Report for 1962, Vice-President for Research and Administration Carl F. Floe

pointed out the expense of paying indirect costs and providing faculty supervision without charge for sponsored research projects. He called these costs "a heavy burden on university resources that is becoming increasingly difficult to bear."

Stratton also said that MIT is trying to "resist another tuition rise." He added that there is no basis to any rumors that tuition will be increased for graduate students on full tuition scholarships and fellowships.

In the future, said Stratton, the faculty must justify any new projects or expansionary plans on a stricter basis than in the past, as limitations on money mean that "you have to make some choices." He indicated that he felt this strictness would probably reduce the number of requests for funds.

The Tech



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Medal, cash given

Lazarus receives teaching award

Alan Lazarus, assistant professor of physics, will receive the Everett Moore Baker Award for Outstanding Undergraduate Teaching in recognition of exceptional and demonstrated interest in undergraduate teaching. The award will be presented at the Awards Convocation at 11:00 this morning in front of Kresge Auditorium.

The award, a bronze medal and a cash prize of \$250, will be presented by President Julius A. Stratton.

Given for the first time this year, the award was established by the Baker Memorial Committee of the Everett Moore Baker Foundation, named in honor of the late Dean of Students.

Professor Lazarus teaches physics courses, and 8.01 and 8.02. Lazarus received his B.S. degree in 1953 from MIT and a Ph.D. from Stanford in 1958.

The Baker fund was initiated by students and friends of Dean Baker after the dean's death. The committee is comprised of both students and faculty. Students on this year's committee are: Frank Levy '63, chairman; Dave Koenig '64; Bob Kimmel '64; and Allen Wornack '63.

In the past, principal from the fund's endowment has been used for projects such as the purchase

of prints for rental, contributions to World University Service, and financing a participant in the Crossroads Africa Program.

Extra study rooms open to end of term

Extra study rooms will again be available this term from May 10 to May 31.

Rooms 3-462 and 3-464 will be open from 5:00 pm to 1:00 am until May 31. Rooms 2-132, 2-136, and 2-139 will be open at the same time from May 21 to May 30.

Normal library rules will be enforced.

14 professors receive academic honors

Fourteen professors have recently received academic honors. Seven of these are among the twenty four Massachusetts winners of John Simon Guggenheim Memorial Foundation fellowships.

Six were recently elected to the American Academy of Arts and Sciences. In addition, an MIT professor was elected to the National Academy of Sciences.

The Guggenheim Foundation, established in 1925 by the late

United States Senator Simon Guggenheim and his wife in memory of a son, awarded \$1,380,000 this year to 269 men and women.

Fellowship winners were:

Professor Carl W. Garland, of the Department of Chemistry, for a study of the theory of the elastic properties of crystals;

Professor James G. Glimm, of the Department of Mathematics, for a study in non-linear ordinary

differential equations and partial differential equations;

Professor Salvador E. Luria, of the Department of Biology, for studies of biosynthetic processes initiated by infections;

Professor Harold A. T. O. Reiche, of the Department of Humanities, for studies of the problem of anthropomorphism in Greek philosophy and early Christian theology;

Professor Alexander Rich, of the Department of Biology, for studies of the mechanism of protein synthesis;

Professor Theos J. Thompson, of the Department of Nuclear Engineering, for studies of nuclear-reactor safety; and

Professor Leon Trilling, of the Department of Aeronautics and Astronautics, for studies of the process of interaction of gas molecules with solid surfaces under conditions of very low density.

The American Academy of Arts and Sciences, an organization which honors distinguished achievement in such practical arts as diplomacy, finance, politics and technology, elected six MIT professors to membership at its annual meeting last Wednesday.

They were Professors Noam A. Chomsky and Morris Halle, of the Department of Modern Languages; Cecil E. Hall and Vernon M. Ingram, of the Department of Biology; Gian-Carlo Rota, of the Department of Mathematics; and David C. White, of the De-

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MIT will award 1200 degrees

Approximately 1200 candidates will be awarded degrees at the ninety-seventh Graduation Exercises, scheduled for Friday, June 7, at 10:30 a.m. in Rockwell Cage.

More than 3600 friends and parents of graduates are expected to witness the awarding of degrees.

Eugene R. Black, former president of the International Bank for Reconstruction and Development, will deliver the commencement address, and President Julius A. Stratton will award the diplomas.

Following the graduates in the academic procession will come members of the faculty; members of the Class of 1913; members of the Corporation; guests of honor; Dr. James R. Killian, Chairman of the Corporation; President Stratton; Dr. Vannevar Bush, honorary chairman of the corporation; and Mr. Black.

William L. Taggart Jr., president of the Alumni Association, will be chief marshal. Other marshals will be: Prof. Campbell Searle, faculty marshal of the graduates; Prof. Herbert Woodson, marshal of the faculty; John J. Wilson, marshal of the corporation, and the yet unannounced marshal of the Class of 1913.

Music will be provided by a brass choir, conducted by John D. Corley, Jr.

The invocation will be delivered by the Rev. Robert Holtzapfel, Jr., religious counselor.

400 million copper fibres in orbit

400 million copper fibers were successfully ejected in a dispensary package from an Air Force satellite in orbit last week by scientists of Lincoln Laboratory. Radar returns indicated that the almost invisibly fine, hair-like fibers are dispersing.

The project, called West Ford, is the first step in an attempt to establish an experimental orbital belt to study the feasibility of a new method for highly reliable world-wide communication. The experiment is being conducted by the MIT Lincoln Laboratory for the United States Air Force.

The fibers are expected to spread along a circular orbital path, some 40,000 miles in circumference, to form a thin, narrow ring or belt around the earth. Fifty pounds of wire, about one-third the diameter of a human hair, is being used for this experiment, yielding about 400 million dipoles.

The first attempt to create an experimental belt, in October 1961, was unsuccessful, because of a mechanical failure in the dispenser. Plans for the present attempt were described on 11 March 1962 by the

West Ford Committee of the Space Science Board, National Academy of Sciences, in a publicly released communication to the International Astronomical Union.

Each of the dipole fibers is a tiny passive communications satellite. The orbital belt of fibers will be used to bounce radio signals back to earth over very long distances. A belt of this sort is practically invulnerable to any sort of physical damage and has many other desirable features when used for long distance microwave communication.

The dipole fibers released from the dispenser are still in a compact cloud, centered about the dispenser package and circling the earth every 166 minutes, in a near-polar orbit, some 2000 miles high at an inclination of approximately 87 degrees. This cloud is expected to spread out slowly in both directions along the circular orbital path, forty thousand miles in circumference, until the dipoles form a complete narrow ring or belt in several months.

Even at the present time, when the cloud is near its maximum density, it is

probably too tenuous to be detected by anything but the most powerful telescopes or radars, such as the special radars that have been developed by Lincoln Laboratory for this experiment. It is these stations, located in Westford, Massachusetts, and Pleasanton, California, that have provided the first direct evidence that a cloud of dipole fibers is forming.

The most accurate available information about the location and orbital elements of the cloud is being transmitted to the Space Science Board of the National Academy of Sciences for dissemination to the world scientific community, to an optical and radio astronomers in making independent observations as the belt forms.

Instruments normally used for astronomy are not well suited to tracking fast-moving satellite targets, but it is hoped that some observations may be made by the world-wide network of giant Baker-Nunn cameras operated by the Smithsonian Astrophysical Observatory. This network is the nation's most powerful tool for optical and

Like reversed stenotype

New reading machine made for blind

A new type of reading aid technique for the blind, based on a stenotype machine which works backwards, has been developed by an Air Force engineer working here as a graduate student.

The student, Lt. Col. Geoffrey Cheadle, has built experimental equipment and tested the technique as his thesis project in the Department of Electrical Engineering. The work has been done as part of the program of the Sensory Aids Research Group of the Research Laboratory of Electronics.

In the normal operation of a stenotype machine, the stenotypist transcribes speech by depressing a series of keys which print a phonetic code on a roll of paper tape. Colonel Cheadle's idea is to reverse the process: Punched tape containing words in the same phonetic code is fed through a special mechanism which depresses the corresponding keys of the stenotype machine—the effect is like that in a player piano.

The operator can read the information with his fingers as he feels the keys move up and down. By merely learning the stenotype system, a blind person would be able to read information transmitted to him through such a machine.

According to Colonel Cheadle, the big advantage of the system is speed. The only widely used reading aid for the blind is Braille, which is read with only one finger and normal-

ly at approximately 70-90 words per minute. A skilful stenotypist, on the other hand, uses ten fingers and can type between 200 and 300 words per minute.

Thus it is possible that a blind person who became proficient in reading through a stenotype-like machine would be able to read at speeds approaching ordinary prose-reading values of 300 to 400 words per minute.

This advantage could overcome serious psychological barrier encountered by people who become blind in later life and find the speed of Braille objectionably slow.



A new reading aid for the blind operates like a stenotype machine in reverse. A stenotypist can read words coded on a punched tape and transmitted by a mechanism which pulls down the stenotyper keys.

To instruct freshmen

Burton to use upperclass tutors

Burton House will use selected undergraduates as tutors for freshmen, starting next term, according to James L. Maskasky '65, chairman of the Burton House tutoring committee.

The program, which is conducted concurrently with the Burton House freshman counselor system, will involve about 25 upperclass tutors.

The tutors, who will supplement the resident faculty tutors in the house, will attend a series of lectures by the heads of freshman courses. These lectures are designed to familiarize and orient the tutors in course curriculum.

The system, according to Maskasky, will provide a tutor for every six to eight freshmen in the house.

The program is also closely related to one proposed by the Student Committee on Educational Policy, said Maskasky, but the two programs will be independent, and SCEP will not solicit tutors from Burton.

The idea was first conceived when Maskasky heard rumors that Professor David C. White, Burton Housemaster, was considering such a program. It was developed by Maskasky and a group of associates, and then presented to SCEP several weeks ago.

30 sophs elected to Beaver Key

Thirty sophomores were recently elected to Beaver Key, a junior honorary and service organization.

The new officers are: Frank Yin, president; Jim Wolf, vice-president; Mike Huke, secretary; Bill Roeseler, treasurer; and Ralph Cicerone, member-at-large.

Other new members are: Dick Arnold, John Berry, Owen Blake, Bill Brody, Art Bushkin, Frank Byers, Dave Carrier, Bill Cohen, Howie Ellis, Marshall Fisher,

John Groves, Mark Hanson, Ed Hoffer, Scott Hynek, Mike Keenher, Kim Kimerling, Jim Larsen, Ron Mandle, Roddy McCleod, George McQuilken, John Proctor, John Roach, Bill Samuels, Don Shulman, and Dick Tsien.

Among its activities, Beaver Key hosts visiting athletic teams, sponsors Field Day and the student-faculty basketball game, and staffs booths for Junior Prom and Winter Weekend.

Levy, Kolb win Boit Prizes

Frank Levy '63 and Cynthia Lee Kolb '63 have been awarded first places in the Boit Prize for Imaginative Writing and the Boit Essay Prize, respectively.

The two-part Boit Prize writing contest, sponsored by the Humanities Department, carries awards of \$75, \$40, and \$25 for first, second, and third place in each division.

The other winners were Daniel P. Smith '66 and John Bryson Eulenberg '64, co-recipients of

second prize in the imaginative writing division; Bernard H. first prize in the Boit Prize for essay division; Robert Jackson '66, third-prize winner in imaginative writing; and Charles L. Gholz '65 third-prize winner in the essay division.

Honorable mentions were received by Jeffrey R. Thorp '66 and David Tulbert '66.

The Ellen King Prize, a similar award open only to freshmen, was not presented this year.

Tharp wins Campus Library Award

Jeffrey R. Tharp '66 has won a \$25 gift certificate from the Harvard Cooperative Society in the Campus Library Award competition.

The best senior entry, that of Dan M. Gourley, is MIT's official candidate for the \$1000 Amy Loveman National Award.

Both contests required that entrants submit a list of at least 35 books, indexed and annotated. In addition, applicants had to write compositions concerning their home libraries.

Judges for the local contest were Kary Bynoe, general & hu-

manities librarian; Prof. Norman Holland, Humanities Department; and Institute professor Norbert Wiener.

The national contest will be judged by a panel selected by the co-sponsors: Saturday Review, the Women's National Book Association, and the Book of the Month Club. The late Amy Loveman was active in all three groups.

Tharp's selection was announced late yesterday by Richard Russell '66, chairman of the MIT Award Committee. Tharp had submitted 550 books for consideration.

Erich Heller appointed Carnegie Professor for 1963 fall term

Professor Erich Heller has been appointed Carnegie Visiting Professor of Humanities for the 1963 fall term. Born in Czechoslovakia in 1911 and a naturalized British Citizen, Heller studied law, philosophy, and German literature at Charles University in Prague. He obtained his doctorate at Cambridge University.

Heller has been a lecturer at the London School of Economics, director of modern languages at Peterhouse, Cambridge University, and a visiting lecturer at the Universities of Hamburg, Goettingen, and Bonn.

Professor Heller's publications in German and English include 'The Disinherited Mind: Essays on Modern German Literature and Thought,' 'The Hazard of Modern Poetry,' and 'The Irony of German, a Study of Thomas Mann.'

Professor Heller will conduct the humanities senior seminar on 'The Morality of Knowledge,' a study of the Faust legend, and will give a course on the works of Thomas Mann. He will give a public lecture in the fall on the importance of Nietzsche.

CLASSIFIED ADS

FOR SALE: Underwood-Olive Hi-Tractys calculator. Call EL 4-5867 between 1-3. Ask for Mr. Riggs.

\$ FOR GRADUATION TICKETS — Must buy 7. Melvin Potash, X 3281. Dorm line 9-284.

SMALL FURNISHED APARTMENT wanted for the summer. Must have kitchen, bath, and must be near Harvard Square. Call Joe Hanlon, BE 2-9433.

M.G. classic (the T.D.-square hood, rear mounted spare), just about completely rebuilt recently — new top, upholstery, paint, clutch, brakes, starter and better than a half dozen other major & minor items. In excellent condition inside and out and very fairly priced at \$895. Phone HU 2-6535 days or TW 3-6277 evenings.

Congratulations, MIT, on a giant step backward! Goodbye freedom of MIT coeds.

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HARVARD SQ. APARTMENT available for summer or year. Everett St. 3 minutes from Harvard Yard off Mass. Ave. Modern, professionally mgd. 4-story brick bldg; 1st floor; unusually cool summers; 3 rooms; recently painted; new refrigerator-freezer; great superintendent; laundry & incinerator facilities; plenty closet & storage space; friendly & quiet neighbors — many married students. Ideal for 2 or call handle 3. Call 868-6789.

WANTED TO RENT: For September 1, 1963, older house, 4-5 bedrooms, dining room, living room, kitchen, 2-3 baths, South of Boston, good commuting distance, yard, unfurnished. Call RI 2-1741.

FOR SALE: NEW Fisher x-100 stereo amplifier and Dynakit 70-watt stereo with preamps. Call Larry Erdmann, 491-2569 or ext. 2869.

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Draft boards get more freedom in setting deferment requirements

Local draft boards will have more freedom in setting their requirements for deferments to students, according to a recent bulletin issued by the national headquarters of the Selective Service System.

The same bulletin announced the discontinuation of the Form 109 application for deferment, which has been in use since 1958. In its place a new form will be issued and distributed with registration material for the coming term.

In the meantime, the Selective Service Office will write the local draft boards of students who are due to apply for deferment renewal, and will request an extension of the student deferment for one year. This gives the student the right to appeal in case he is placed in Class 1-A (available for military service).

According to Selective Service Advisor Mrs. Eleanor Lutz, all MIT students should apply for the

Class 2-S student deferment, and accordingly take the Selective Service Qualifying Test given in the April following their eighteenth birthday.

All students who took the examination in 1963 are urged to write to their local draft boards and find out their scores. These scores should be reported to the Selective Service Office, Room 20-E-226.

Further information may be obtained from Mrs. Lutz, at the Selective Service Office.

Critical path scheduling speeds construction work

Critical path scheduling, a technique for determining which operations on a construction job must be finished promptly to prevent delay in job completion, is now being offered in courses by the Civil Engineering Department.

CPS, devised in 1957, has hastened the completion of many construction projects, including United States Missile programs.

Essentially, the technique of CPS is to diagram all the operations of a job on a time scale. The arrow representing an operation is preceded by arrows representing all the jobs which must

Dispute ended

Harvard signs three-year CEA contract

Harvard University has signed a three-year contract with the Atomic Energy Commission for operation of the Cambridge Electron Accelerator, jointly owned by Harvard and MIT.

The signing climaxed a dispute between Harvard and the AEC. Harvard had objected to provisions which required AEC regulation of information exchange between staff members and Soviet-bloc scientists.

The contract in its final form provides that the AEC must be notified in advance of formal visits planned by scientists from the Soviet bloc. Harvard must also furnish background information to the AEC on all aliens engaging in the accelerator. The restrictions in the contract are less string-

ent than those previously insisted upon by the AEC, although Dean F. L. Ford, of Harvard's Faculty of Arts and Sciences, has termed them "irritating."

The contract provides that the AEC will furnish Harvard and MIT with \$4 and \$5 million dollars a year for operating expenses of the \$12 million accelerator.

A provision of the original contract which would have given the AEC control over all scientific information released to scientists from Soviet bloc was replaced with a different stipulation. This stipulation states that requests for information may be filled, under the condition that information may be demanded in return.

Three groups honor 14 Tech professors

(Continued from Page 1)

partment of Electrical Engineering.

Dr. Hoyt Hottel, professor of fuel engineering, was recently elected to membership in the National Academy of Sciences. He is one of 34 scientists and engineers to be so honored this year.

Science Fiction Society Elects Hoylman as Skinner

Douglas J. Hoylman '64 was elected skinner of the Science Fiction Society at its meeting last Friday. He had served as secretary of the group.

Other officers elected were Edward T. Olsen '64, vice-president; Lore Anne Long '66, secretary; and Truman R. Brown '65, treasurer.

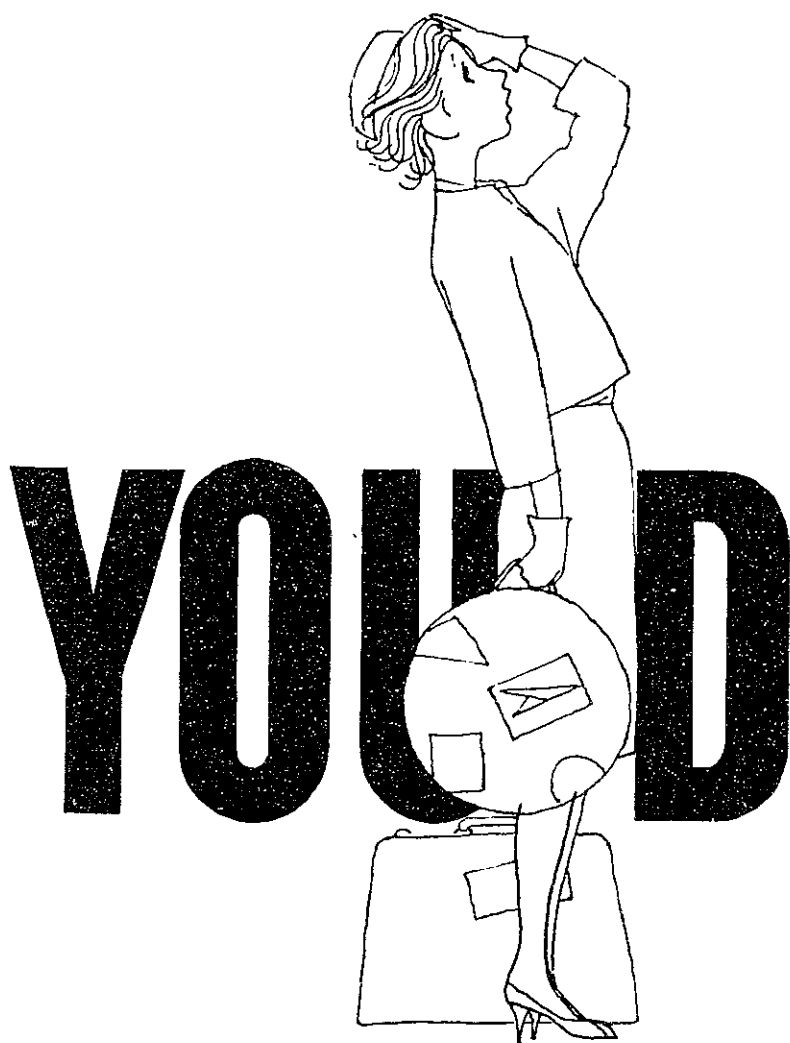
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42nd out of 42

MIT came in last out of 42.

The contest was the amount spent last year by the nation's top universities on books and periodicals.

MIT did little better in the number of volumes in its libraries, coming in 36th.

These statistics are drawn from a survey of 42 university libraries that was conducted by Princeton University.

Can MIT allow its libraries to do so poorly and still be in the front ranks of the contest for academic excellence? Probably not.

Both science and engineering are in the midst of a tremendous information explosion. MIT must remain abreast of the new knowledge if it is to be a leader of change.

Although much is to be desired from MIT's library system, some much-needed improvements are being planned. These include:

1. New facilities for the Dewey Library. The forthcoming five-story building behind the Sloan Building will include added space for this economics and industrial-management library.

2. Research into automation of the libraries' accounting system for book loans. Dr. Myer M. Kessler, of the Division of Sponsored Research, is studying the possibility of an automated checkout system for the libraries. In such a system, students would present a machine-readable card when checking out a book. The necessary information would be read from the card and stored in a computer memory unit.

3. A feasibility study of combining the science and engineering libraries in Building 10. Prof. William N. Locke, Director of Libraries, is working with an architect and an outside consulting firm on this study. Such a combined library would eliminate duplication in the engineering and science collections. Duplication is a growing problem, as engineering education increasingly stresses basic science.

These improvements are welcome steps in the right direction for the MIT libraries. However, they are not enough. As Prof. Locke has said, MIT could easily be spending twice as much on its libraries as it now does.

It is shocking that MIT's libraries are groveling in 42nd place. But more important is that they are inadequate for their community's needs. Large scale improvement is needed now.

Deficit amid plenty

"Enormously rich but going bankrupt rapidly," joked one MIT official. He was commenting on MIT's ironical financial position: having just collected \$98 million in the Second Century Fund, the Institute nevertheless projects its operating deficit will rise to \$1 million next year.

The Second Century is the largest single fund ever collected by one college. It represents a nationwide tribute to MIT for its current excellence and the progress for which it stands.

Moreover, it puts MIT's total of endowed and invested funds among the top five in the nation, after Harvard, Yale, Princeton, and Dartmouth. So in a capital way, MIT is in splendid condition.

However, in the immediate future, MIT faces a significant and rapidly increasing deficit. Next year this is expected to triple to the million-dollar level.

The fact that there is a short-term deficit is not in itself bad, for MIT is dedicated to education, and not intended

to be a highly profitable business. But it is also clear that the deficit cannot be allowed to run on indefinitely.

The administration is wise in making it very clear that no cutbacks will be made in faculty. "Our faculty is our basic resource" said one department head. And President Stratton wishes to raise faculty salaries and benefits another couple of notches until they are among the top two or three in the nation.

Another budget balancer not yet being used again is the tuition rise. This year MIT broke its exasperating pattern of bi-annual tuition raises by not announcing one for the 1964-65 academic year.

Raising salaries and holding tuition income constant are not going to help cut the deficit. What will be done?

Carefully worded and deliberately vague comments by several officials lead to these predictions:

1. Finance first. Major expansions will be completely funded before MIT commits itself to them. Money for both capital and operating expenses will have to be pledged before announcements are made.

In the past, MIT has often announced plans for buildings, like the Student Center, which would not be financed for several years after the commitment. The Center for Advanced Engineering Study, generously financed by the Sloan Foundation is a prime example of the new pattern.

2. Make research pay. MIT will try to shift many more staff, overhead, and equipment expenses to research accounts. In addition, government and industry will be asked to support the peripheral personnel and that their research demands.

Research sponsors will be asked to pay for the education that makes their research possible.

Two ways better

The appointment of the much-maligned Stouffer Corporation to handle the dining services in the Student Center has drawn the expected criticism from the student body.

While the validity of the choice will be tested only by time, there are two reasons to believe that the Student Center food will prove more popular than the commons food service.

First, the new restaurants will be run by the restaurant division of Stouffer's, a division accustomed to working in competition. It is a separate entity from the food management division, which handles commons food and other food-service monopolies throughout the country.

Second, there will be an advisory board to ensure that any student complaints about the food will be the impetus to improved eating for everyone.

Inside Incomm

Visiting Latins would ignore students against integration

by Jerry Luebbers, UAP

Last Tuesday provided an unusual opportunity to examine more closely our own motivations and spheres of interest. Three Argentine student leaders, aged 21 to 24, and a State Department interpreter were visiting MIT.

They were on a State Department-sponsored 56-day tour of American colleges and universities, and were interested primarily in finding out what they could about the way in which American schools were run.

As they had a particular interest in the structure, authority, and responsibility of student governments, I was requested to have lunch with them. Although we didn't speak the same language, the discussion was most interesting.

In Argentina, student organizations publish educational material, audit and modify books written by their professors, determine academic calendars, al-

locate budgeted money, and, in general, are on an equal plane of authority with the faculty.

Even more enlightening was the great interest they had in non-academic matters. They felt a very strong personal motivation to make a statement of position on any and all matters of social import.

They could neither understand nor appreciate our attitude that, via presentation of speakers, we sought to enlighten our students on the issue. We said we did not feel we could take any stand on an issue which would represent the opinion of our entire student body.

His immediate reply was that any minority of students not "in favor of human rights," as in the Alabama disturbances now (to which he specifically referred), were not worthy of consideration anyway.

(Please turn to page 5)

Kibitzer

By MICHAEL LINAH

NORTH
♠ K 9 4 2
♥ 5
♦ 7 4
♣ A Q J 10 9 4

WEST
♠ 10 6 5
♥ 7 4 3 2
♦ 6 5 3 2
♣ 8 7

EAST
♠ J 8 7 3
♥ K Q 10 8 6
♦ K Q J 9
♣ void

SOUTH
♠ A Q
♥ A J 9
♦ A 10 8
♣ K 6 5 3 2

The Bidding:

North	East	South	West
1♣	Double	Redouble	Pass
Pass	1♥	2♥	Pass
3♣	Pass	4NT	Pass
5♦	Pass	5NT	Pass
6♦	Pass	6NT	All Pass

Good bridge players aren't just lucky. Part of their success is just getting out of their own way. Today's declarer went down in a cold contract because he failed to get out of his own way.

Declarer got carried away with his hand, and had visions of a grand slam. When his partner showed up with only one king, he had to content himself with six no trump. Six clubs is a lay down, and six no trump requires just a little care.

South won the opening heart lead in his hand, capturing East's King with his Ace. He now ran the clubs, seeing nothing better to do. South pitched a small diamond on the sixth club, East let go of all his spades and two hearts, West pitched his diamonds.

Declarer started out with eleven tricks, and wound up with ten. Down two. If declarer had unblocked the spade suit, getting out of his own way, he would have started out with the same

eleven tricks, but he would have had all thirteen at the end.

After cashing the Ace and Queen of Spades, declarer should run the clubs. Poor East will have a little trouble finding the first few discards. His fourth will be difficult, his fifth agonizing, and the sixth absolutely impossible. When the last club is led from dummy, the position will be:

NORTH
♠ K 9
♥ —
♦ 7 4
♣ 4

WEST
immaterial

EAST
♠ J 8
♥ —
♦ K Q
♣ —

SOUTH
♠ —
♥ J 9
♦ A 10 8
♣ —

If East pitches the Queen of Hearts, South pitches a diamond. South pitches another small diamond on the King of Spades, and returns to his hand with the Ace of Diamonds to cash two good hearts.

If East pitches the Queen of Diamonds, South pitches one heart on the club, and the other heart on the Spade King. When he cashes the Ace of diamonds, the King falls, setting up the ten and eight.

If East pitches a spade, south pitches a diamond. Next, he cashes the King of Spades, dropping East's Jack, and pitching a small heart. Now the nine of spades is led and East again is squeezed, South saving the suit that East unguards.

In this hand all South has to do is to take his tricks, indeed he is his own worst enemy.

THE TECH

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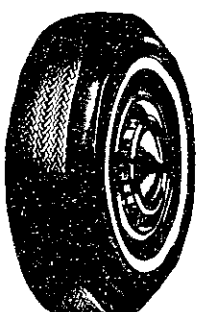
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Scholastic and personal

Admissions Office uses two indices as criteria

In selecting students for admission, the Office of Admissions uses a scholastic index and a personal rating as two of the criteria.

One prediction of a student's achievement takes the form of a percentage probability that he will receive C grades or better in his freshman year. This scholastic index is basically a factual and objective process.

By way of illustration, an applicant for admission in 1962, who had a few more A's than B's in high school, who was 12th in a

class of 150, and who had College Entrance Examination Board test scores which averaged 680, had a scholastic index of 50. Half of such students in recent years have achieved first-year averages of C or higher but half have averaged below C.

The personal evaluation is expressed on a personal rating scale with 10 as the maximum. This is done on a purely subjective basis. For example, 89% of the applicants who had a personal rating of 10 were offered

admission. 7% of those who had a rating of 5 were admitted.

On the five College Entrance Examination Board tests, anyone with an average of less than 550 has virtually no chance of being admitted. In the 550-599 interval 2% of the applicants were offered admission. On the other hand, 99% of those in the 750-800 interval were accepted.

In considering extracurricular activities, the Office of Admissions is interested in the quality rather than the number of commitments. 155 of the freshman class that entered in September, 1962, were varsity sports letter winners. 131 were major school officers, 214 were club presidents, and 182 participated in a dramatics group.

'Elmo' unveiled in Hayden court; Hadzi's 57 sculptures now exhibited

A six-foot bronze sculpture by Dimitri Hadzi was unveiled Monday in the Hayden Gallery court by resident Julius A. Stratton. An exhibition of 57 Hadzi sculptures opened Tuesday at the gallery.

The sculpture, title 'Elmo,' is a gift of Mr. Samuel A. Marx '07 and his wife.

Mr. Hadzi, who came to the

United States from Rome for the installation of his latest work, is of Greek parentage. Born in New York City in 1921, he attended Brooklyn Polytechnic Institute and Cooper Union.

In 1950 he went to Greece on a Fulbright Fellowship to study ancient sculpture.

Hadzi received the Tiffany Award for Sculpture in 1955, a Guggenheim Fellowship in 1957, and the American Academy of Arts and Letters Award in 1962. He has had one-man shows in Rome, New York, Munich, and Dusseldorf.

His work has been included in many important group shows here and abroad and in numerous gallery and private collections. Among his commissioned sculptures are works for Philharmonic Hall of the Lincoln Center for Performing Arts, New York, and the Reynolds Metals Company memorial award.

Inside Inscomm

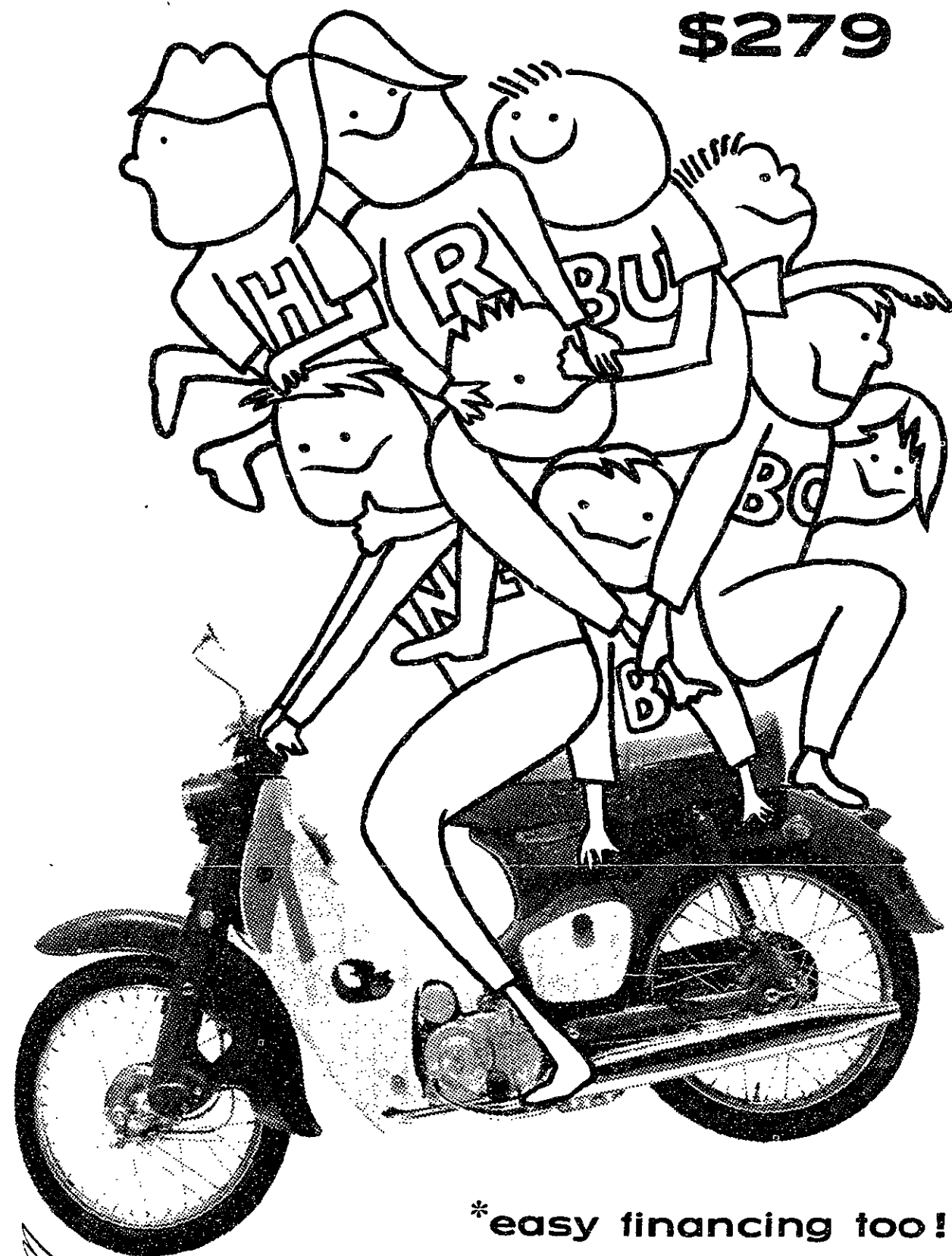
(Continued from Page 4)

We finally resolved our own differences of opinion as being attributable to societal differences, but none of us left completely satisfied. To my way of thinking, non-participation in affairs of national interest had always been assumed.

But is, as my Argentine friend argued, statement of sentiment on such questions an obligation of a student body? Or should we be primarily oriented in an internal direction and concern ourselves now with our formal education, later with our role in society?

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THE TECH COOP

music at mit...

Music Clubs present Spring Festival

By John Montanus

The Combined Musical Clubs presented its major concert series of the year with 'A Spring Festival of Music at MIT.' The Choral Society, Concert Band, Brass Choir, Symphony Orchestra and Glee Club all participated in the two weekends of entertainment at Kresge Auditorium.

On May 4 and 11 the Brass Choir, Concert Band and Symphony Orchestra presented music of Piston, Schoenberg and Lalo. The Brass Choir, conducted by Andrew Kazdin, began the performance with 'Intrada' and 'Sonata,' which were played with spirit, if not with precision. The Concert Band, directed by John Corley, then presented two modern works, Schoenberg's 'Theme and Variations' and Sander's 'Symphony in B-flat.' The 'Theme and Variations' was accurately and rhythmically played; to most of the audience, however, the "tenderness" of some of the variations, as indicated in the notes, was difficult to detect, due largely to the intricacies of the music. The 'Symphony in B-flat' was less complicated, well played, and better received; the composer, who was in the audience, was warmly applauded.

John Corley then directed the Symphony Orchestra in a bright and spirited performance of Piston's 'Suite from the Incredible

Combined Musical Clubs: Brass Choir, Andrew Kazdin conducting; Concert Band, John Corley conducting; Symphony Orchestra, John Corley conducting; Choral Society and Cambridge Festival Orchestra, Klaus Liepmann conducting; Dorothy Renzi, soprano; Eunice Alberts, contralto; Donald Sullivan, tenor; Thomas Pyle, baritone; Glee Club, Douglas College Choir; and Cambridge Festival Orchestra, Klaus Liepmann conducting; Catherine Linville, soprano; Walter Carringer, tenor; John Powell, baritone.

PROGRAM

May 4 and 11, 1963
Brass Choir
 Giovanni Bounamente—"Sonata"
 Gordon Jacob—"Intrada" from 'Music for a Festival'
Concert Band
 Arnold Schoenberg—"Theme and Variations, Opus 43A"
 Robert Sander—"Symphony in B-flat for Concert Band"
Symphony
 Walter Piston—"Suite from 'The Incredible Flutist'"
 Edward Lalo—"Symphonie Espagnole"
May 5 and 10, 1963
 Choral Society and Cambridge Festival Orchestra
 Johann Sebastian Bach—"B minor Mass"
May 12, 1963
 MIT Glee Club, Douglas College Choir, and Cambridge Festival Orchestra
 Franz Joseph Haydn—"The Seasons"

Flutist. The high point of the evening was the performance of Lalo's 'Symphonie Espagnole,' really a violin concerto, with Janet Stober '64 as soloist. Miss Stober, a physics major, is remarkable not only for her technique, but also for pure, clear tone, a quality often lacking in amateur and even professional violinists.

On May 5 and 10 Klaus Liepmann directed the Choral Society in Bach's 'B minor Mass.' The performance was remarkable in almost every respect. The chorus combined a full, rich tone with great precision, particularly in its entrances. The Cambridge Festival Orchestra, with special instrumental soloists, performed brilliantly, yet blended well too. Trumpet soloist Roger Voisin of the Boston Symphony Orchestra handled the high-pitched, difficult Bach trumpet part beautifully. The four vocal soloists were the only mediocre part of an otherwise excellent performance. Although the soprano-alto duet in the Creed was well handled, most of the arias were lacking in tone and volume.

On May 12 the Glee Club, the Douglass College Choir, and the Cambridge Festival Orchestra presented Haydn's neglected masterpiece, 'The Seasons.' Though the chorus lacked some of the accuracy of the Choral Society, their enthusiasm for the romantic, programmatic work was evident. The tone quality, particularly of the sopranos, was superior to anything the group has done this year. The soloists at this performance were much better than at the 'Mass'; the orchestra was quite loud, but blended well in the rear of the auditorium.

At the Coffeehouses Q-Club elects 15 new members

Cafe Yana

50 Brookline Ave.
 Near Kenmore Square
 Through May 18 — Dave Van Ronk
 May 19-21 — Bill Lyons
 May 17-18 — Debby Cooper
 May 17 only — Jim Kweskin
 May 20 — Bill Lyons
 May 21-25 — Jim Kweskin
 May 26 — June 1 — John Townley

The Unicorn

825 Boylston Street
 Through May 19 — John Winn, Elizabethan Bawdy Songs

Twenty-two members have recently been elected to Quadrangle Club. Officers will be chosen May 19.

Newly elected members are: Bert Blewett, Sumner Brown, Larry Calof, Refer Grant, Tom Jones, William Kosiner, Brady Zaslridge, Dick Nygren, David Penny, Henry Perritt, Bruce Powell, Richard Sayre, Don Schwanz, Dennis Sivers, and Jeff Trimmer.

In addition, the following seven members were elected by the first fifteen. They are: Charles Epps, Wayne Baxter, Loren Wood, Jack Turner, Gerald Dicky, Rex Ross, and Peter Kirkwood. Another three will be chosen at a meeting Sunday.

Boston Pops

WEDNESDAY

Entrance of the Guests into the Wartburg, from "Tannhauser" — Wagner
 Artists' Life, Waltzes — Strauss
 Romeo and Juliet, Overture — Fantasia — Tchaikovsky
 Conducted by MARIO DI BONA-VENTURA, Musical Director Hopkins Center, Dartmouth College
 For Piano and Orchestra — Variations Symphonique — Franck
 Scherzo, from the Concert Symphonique — Litolff
 Soloist: LEONARD PENNARIO
 The Revere High School Choral Club
 Victor Herbert Favorites, arr. Sanford — March of the Toys — Absinthe Frapee — Because You're You — When You're Away — I Can't Do the Sum — I'm Falling in Love with Someone — Gypsy Love Song — Italian Street Song — Kiss Me Again — The Irish Have a Grail Day Tonight
 Desafinado, Bossa Nova — Jobim-Mason
 Songs of Dartmouth — arr. Anderson.

THURSDAY

BOWDOIN NIGHT
 The Stars and Stripes Forever, March — Sousa
 Romeo and Juliet, Overture — Fantasia — Tchaikovsky
 Fantasies on Greensleeves — Vaughan Williams
 Suite from 'Gaité Parisienne' — Offenbach
 Overture—Allegro-brillante — Polka Galop — Valse — March — Can-Can — Finale
 Bowdoin College Glee Club
 The Meddiebumpsters
 Selection from 'The Sound of Music' — Rodgers
 The Sound of Music — How Can Love Survive — The Lonely Goatherd — My Favorite Things — Sixteen Going on Seventeen — So Long, Farewell — Do-Re-Mi — Edelweiss — An Ordinary Couple — No Way to Stop It — Maria — Climb Every Mountain
 Desafinado, Bossa Nova — Jobim-Mason
 Bowdoin College Medley — arr. Bodge
 Conducted by ROBERT K. BECK-WITH

FRIDAY

LASELL NIGHT
 HARRY ELLIS DICKSON, Conducting
 Prelude to 'Carmen' — Bizet
 Overture to 'The Merry Wives of Windsor' — Nicolai
 Ave Maria — Schubert
 Soloist: ALFRED KRIPS
 Tales from the Vienna Woods, Waltzes — Strauss
 The Animals' Carnival, Grand Zoological Fantasia — Saint-Saens
 Introduction and Royal March of the Lions — Cocks and Hens — Horses of Tartary (Fleet Animals) — Tortoises — The Elephant — Kangaroos — Aquarium — Personages with Long Ears — The Cuckoo in the Depth of the Forest — Aviary Pianists — Fossils — The Swan — Finale
 Soloists: LEO LITWIN and SAMUEL LIPMAN
 The Orphean Club of Lasell Junior College
 Pops Round-Up — arr. Hayman
 Salute to the Armed Forces — arr. Bodge
 Halls of Montezuma — Semper Paratus — Wide Blue Yonder — Anchors Aweigh — The Caissons Go Rolling Along — God Bless America
 The Stars and Stripes Forever — Sousa

SATURDAY

Rakoczy March — Berlioz
 Overture to 'Die Fledermaus' — Strauss
 Ave Maria — Bach-Gounod
 Solo Violin: ALFRED KRIPS
 Ballet Music from 'Faust' — Gounod
 Dance of the Nubian Slaves — Minor Dance — Dance of Phryne
 The Animals' Carnival, Grand Zoological Fantasia — Saint-Saens
 Soloists: LEO LITWIN and SAMUEL LIPMAN
 Espana, Rhapsody—Chabrier
 Selection from 'West Side Story' — Bernstein
 I Feel Pretty — Maria — Something's Coming — Tonight — One Hand, One Heart — Cool — Americanica
 Days of Wine and Roses—Mancini
 The Stars and Stripes Forever — Sousa

SUNDAY AFTERNOON

HARRY ELLIS DICKSON
 Conducting
 Marche Militaire—Shubert
 Overture to 'William Tell'—Rossini
 Largo from 'Xerxes'—Handel
 Solo Violin: ALFRED KRIPS
 Suite from 'Gayne'—Khatchaturian
 Dance of the Rose Maidens—Lullaby—Sabra Dance
 The Animals' Carnival, Grand Zoological Fantasia — Saint-Saens
 Soloists: LEO LITWIN and SAMUEL LIPMAN
 Espana Rhapsody—Chabrier
 Selection from 'No Strings'—Rodgers
 Love Makes the World Go — The Sweetest Sounds—Loads of Love — Nobody Told Me — Maine — No Strings — Be My Host
 Pops Round-Up — arr. Hayman
 The Thunderer, March — Sousa

SUNDAY EVENING

HARRY ELLIS DICKSON
 Conducting
 Triumphant March from 'Aida'—Verdi
 Academic Festival Overture — Brahms
 Panis Angelicus—Franck
 L'Arlésienne, Suite No. 2—Bizet
 Intermezzo — Minuet — Farandole
 Rhapsody in Blue, for Piano and Orchestra—Gershwin
 Soloist: LEO LITWIN
 Bolero—Ravel
 Selection from 'Camelot'—Loewe
 I Wonder What the King is Doing Tonight — Parade — The Simple Joys of Maidenhood — Camelot — If Ever I Would Leave You — Fie on Goodnight — How to Handle a Woman — The Lusty Month of May — Guinevere
 Days of Wine and Roses—Mancini
 Mack the Knife, from 'The Three Penny Opera'—Weill

TUESDAY

Washington Post, March—Sousa
 Overture to 'William Tell'—Rossini
 Minuet—Bolzoni
 Suite from 'Swan Lake' Ballet
 Suite from 'Tchaikovsky'
 Allegro moderato — Andante (Solo Violin: ALFRED KRIPS) — Hungarian Dance: Czardas
 For Piano and Orchestra
 Variations Symphonique — Franck
 Scherzo, from the Concert Symphonique — Litolff
 Soloist: LEONARD PENNARIO
 Capriccio Espagnole — Rimsky-Korsakoff
 Alborado — Variations — Alborado — Gypsy Scene — Fandango of the Asturias
 Selection from 'My Fair Lady' — Lowe
 The Longest Day — Anka
 76 Trombones, from 'The Music Man' — Willson



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Making the Scene

theatre . . .

Loeb's 'Henry IV' has skilled acting

By Kris Blum

The genius of Shakespeare coupled with generally excellent acting of the members of the Harvard Dramatic Club made for a most entertaining evening in 'Henry IV—Part One' at the Loeb Theater. This five-act amateur production was marked by skilled acting on the part of all major players, whose sparkling performances amply compensated for the weakness of the subordinate characters.

The aggressive and dynamic Hotspur was played by Philip Kerr, who made a virile and appealing hero. He emphasized Hotspur's uncertain temper and intractability. With both romantic and dramatic appeal, Kerr aptly represented this impulsive, gay young knight.

In contrast to the valiant Hotspur is the truant Prince Hal, who spends much of his unruly youth in the company of the rogue and coward, Falstaff. David Rittenhouse as Henry, Prince of Wales, at times dominated Falstaff in their scenes of mimicry. His seriousness when promising to redeem his shame upon the gallant Hotspur was less effective. Rittenhouse suited his role as the roguish prince who finally sheds his coat of profligacy to become the hero-king of English history.

Daniel Seltzer, as Falstaff, seemed completely at ease in his

HENRY IV—PART ONE—by William Shakespeare. Produced by Thomas E. Vachon. Directed by George Hamlin. Designed by Donald Soule. Lighting by Walter Benson. Presented by the Harvard Dramatic Club as 130th major production. The cast:

King Henry the Fourth	Richard Simons
Earl of Westmoreland	Lewis B. Kaden
Prince John of Lancaster	Lorenzo Weisman
Sir Walter Blunt	Yann Weymouth
Sir John Falstaff	Daniel Seltzer
Henry, Prince of Wales	David J. Rittenhouse
Poins	John J. Boerhrer
Earl of Worcester	Mark H. Bramhall
Earl of Northumberland	Clayton Koelb
Henry Percy ("Hotspur")	Philip Kerr
Gadshill	William McKinney
Peto	Tony Corbett
Bardolph	John C. Anderson, Jr.
Lady Percy	Patricia Fay
Mistress Quickly	Raye Bush
Edmund Mortimer	James Shapiro
Owen Glendower	Nicholas Delbanco
Lady Mortimer	Laura Esterman

At the Loeb drama Center.



Falstaff: "These four came all affront and mainly thrust at me."

ably carried by Simons. His elocution was clear and anxiety over national events is instilled upon the audience.

As Mistress Quickly, hostess of the Boar's Head Tavern, Raye Bush turned many a smile into an uproarious chuckle by her infectious mannerisms. Patricia Fay made a coy Kate. Laura Esterman as Lady Mortimer sweetly sang in Welsh, while Hotspur gaily tried to interest his wife in lute and song.

In contrast to the superb major roles, many of the secondary actors often seemed artificial and unrealistic. The dullness of Edmund Mortimer and the Earl of Douglas, and the overacting of Francis were typical of most minor characters.

As in most Shakespearean plays, the platform stage was used. The settings were an old, cold stone castle, tavern, and battlefield. The absence of elaborate stage decorations indicated knowledge of actual Elizabethan tradition. The costumes were rich and colorful. The action scenes seemed authentic and realistic. In all, the staging was excellent.

Additional performances will be given May 15-18. The show is well worth witnessing.

Biology students learn research techniques in instrumentation lab

Biology students and medical research workers have a special opportunity to learn physical research methods in the Biology Department's instrumentation laboratory. Here they learn the instrumentation techniques of the physical sciences which are especially pertinent to biology.

This knowledge was once taught in the basic physics course, but after World War I, advances in atomic and relativistic physics forced this course to become more theoretical and less practical. Hence, students who did not take more advanced physics courses but who needed certain technical information for work in biology had little opportunity to gain this knowledge until the founding of the instrumentation lab.

The lab was developed under a grant from the National Science Foundation. Subject matter taught in the lab is organized in terms of instrumentation elements, the units of which all measurement systems are built. This enables students to adapt to unusual systems and to invent systems of their own, using the elements as building blocks.

Thus, by learning the basic set of units, students will be able to arrange them in any possible combination and will so be able to deal with any possible laboratory measuring system.

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THIS WEEK	S	M	T	W	T	F	S
MUSIC				15	16	17	18
New England Conservatory—Program of Original Composition, Jordan Hall, May 15, 8:30; free.	19	20	21	22	23	24	25
Gardner Museum—cellist Edgar Fischer, May 19, 3:00; works of Frescobaldi, Bossertini, Debussy, Nin, Kodaly, Chopin.	26	27	28				

Justia Jones—Metropolitan Opera Auditions winner, May 20, 8:30, Jordan Hall; free.

Henry IV, Part One—Loeb Drama Center, May 15-18, 8:30; \$1.50 Wednesdays and Thursdays, \$2.00 Friday and Saturday.

One-act Musical Comedies—Loeb Experimental Theater, May 16-18, evenings 6:00, matinees May 17-18 2:30.

ISC Classics Series—'Never Give a Sucker an Even Break,' May 17, Room 10-250; 6:30, 9:00; W. C. Fields stars in this story of a famous movie comedian who becomes a young girl's guardian. He gets involved in a wild mix-up of hectic plane trips and other excitement, USA, 1941.

'Long Day's Journey into Night'—Eugene O'Neill, Tufts Arena Theater, Tufts University, May 17-18, 23-25, 8:00.

ISC Entertainment Series—'Boys Night Out,' May 18, Room 10-250, 8:15, 7:30, 9:45; Kim Novak, James Garner, Tony Randall, Howard Duff, Howard Morris.

Four male commuters rent a city apartment and hire a female housekeeper with the notion of playing house.

MISCELLANEOUS

'The Management of Scientists'—Dr. Albert Siepert, 'Creating the Management Climate for Effective Research in Government Laboratories,' 8:30, May 16, Alumni Auditorium, Northeastern University.

NEXT WEEK

MUSIC

New England Conservatory Orchestra—New England Conservatory Chorus, May 23, 8:30, Jordan Hall; Conrad Beck's 'Death over Basel'; free.

New England Conservatory—Contemporary Chamber Music Concert, May 24, 8:30, Jordan Hall; Stravinsky's 'Octet for Wind Instruments,' Villa Lobos's 'Bachianas Brasileiras No. 6,' Harbison's 'Canzonetta,' Elkus's Quartet for four Bassoons, Schmitt's 'Sonatine en Trio,' Rilsager's 'Concertino for Trumpet'; free.

Gardner Museum—pianist Lois Pachucki, May 26, 3:00.

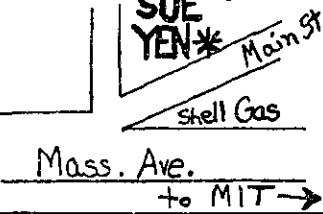
THEATRE

'The Battle of Jericho'—Loeb Experimental Theater, May 24-25, 8:00, additional performance May 25, 10:00.

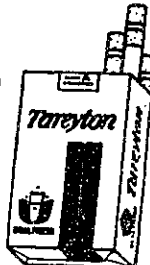
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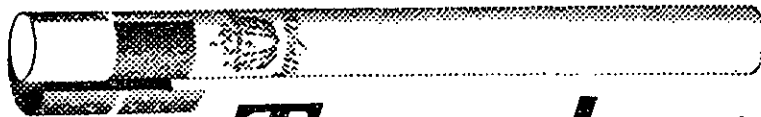
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says Scipio (Wahoo) Maximus, dynamic cheer leader of the Coliseum Gladiators. "Hipus, hipus, hooray!" yells Wahoo, "and tres cheers for our favorite cigarette, Dual Filter Tareyton. Vero, here's flavor—de gustibus you never thought you'd get from any filter cigarette!"

Dual Filter makes the difference



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Cash prizes offered for new one-act plays

A contest for original, unproduced and unpublished one-act plays is being held by the New England Theatre Conference. The best three of the plays submitted will be awarded cash prizes of \$25.00 each and will be performed by local theatre groups next fall.

The contest is open to writers living in New England. The deadline for submission of plays is September 1. Contest rules may be obtained by writing to Prof. Samuel Hirsch, Division of Theatre Arts, Boston University.



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movie schedule

Wednesday, May 15 through Tuesday, May 21. (Unless otherwise stated, the Sunday schedule is the same as the weekday schedule except that no movies are shown before 1:00 p.m.)

ASTOR — 'I Could Go On Singing,' 9:30, 11:30, 1:30, 3:30; Sunday, 1:00, 3:00, 5:00, 7:00, 9:00.

BEACON HILL — 'The Four Days of Naples,' 9:30, 11:30, 1:30, 3:30, 5:30, 7:30, 9:30.

BOSTON CINERAMA — 'How the West Was Won,' evenings, 8:30; matinee Sunday, 4:45.

BRATTLE — Michelangelo Antonioni's 'Le Amiche' (1955), 5:30, 7:30, 9:30; Sat. matinee 3:30, starting Sun.: Antonioni's 'Eclipse,' 5:30, 7:30, 9:30 daily, matinee Sun. and Sat. at 3:30.

CAPRI — 'David and Lisa,' 10:00, 12:00, 2:00, 4:00, 6:00, 8:00, 10:00.

EXETER — 'Wrong Arm of the Law,' 2:10, 3:55, 5:45, 7:30, 9:20.

FENWAY — 'Sundays and Cybele,' 1:10, 3:10, 7:10, 9:10.

GARY — 'Lawrence of Arabia,' evenings, 8:00; matinee Sunday, 2:00.

HARVARD SQUARE — Genet's 'The Balcony,' 3:25, 6:35, 9:40; 'Operation Snatch,' 1:45, 5:00, 8:10.

KIETH MEMORIAL — 'Paranoia,' no times available.

LOEW'S ORPHEUM — 'Come Fly with Me,' 10:13, 2:09, 6:50, 9:46, Sun., 11:18, 4:59, 8:55; 'Joseph and His Brethren,' 12:02, 3:58, 7:39, Sun., 1:00, 3:07, 6:48.

MAYFLOWER — 'The Balcony,' no times available.

MIT — Friday, 'Never Give a Sucker an Even Break,' Room 10-250, 6:30, 9:00; Saturday, 'Boys' Night Out,' Room 10-250, 6:15, 7:30, 9:45.

MUSIC HALL — 'The Ugly American,' 10:00, 12:21, 2:42, 5:03, 7:24, 9:46; Sunday, 1:00, 3:10, 5:20, 7:30, 9:40.

PARAMOUNT — 'Critic's Choice,' 11:15, 2:45, 6:15, 9:40; 'Black Gold,' 9:30, 1:00, 4:25, 8:00.

PILGRIM — 'Yellow Canary,' 9:40, 12:30, 3:30, 6:25, 9:20; Sun., 1:00, 3:45, 6:35, 9:25; 'Firebrand,' 11:20, 2:15, 5:10, 8:00; Sun., 2:30, 5:20, 8:10.

SAXON — 'Mutiny on the Bounty,' evenings, 8:15, matinee, 2:15.

WELLESLEY COMMUNITY PLAYHOUSE — through May 16, 'To Kill a Mockingbird,' 7:45, matinee today, 2:00; starting May 17, 'Days of Wine and Roses,' evenings 7:45, matinee Wed., Saturday 2:00.

UPTOWN — 'Courtship of Eddie's Father,' 1:10, 5:20, 9:25; 'A Child is Waiting,' 11:23, 3:25, 7:35.

Theatre Schedule

ACTORS' PLAYHOUSE — 'Talk to Me Like the Rain and Let Me Listen,' Tennessee Williams; 'The Respectful Prostitute,' Jean-Paul Sartre, 8:00.

AGASSIZ — 'The Offshore Island,' through May 18, 8:30.

BOSTON COLLEGE THEATRE — 'Seven Scenes for Yen,' May 12-15, 8:30.

CHARLES PLAYHOUSE — 'Candida,' Wednesday-Friday, 8:30; Saturday, 5:30, 9:00; Sunday, 3:00, 7:00.

JOHN HANCOCK HALL — 'Kismet,' May 18, 8:15, May 19, 3:00.

KRESGE LITTLE THEATRE — 'Rhinoceros,' May 16-18, 23-25, 8:30.

LOEB DRAMA CENTER — 'Henry IV — Part 1,' May 16-18, 8:30.

TUFTS ARENA — 'Long Day's Journey into Night,' May 17-18, 23-25, 8:30.

Boston's summer entertainment will be as varied as during

The 1963 Boston Arts Festival will open June 20 and run through July 14.

An exhibit of New England architectural works will be presented as part of the Architecture, Landscape Architecture Exhibition in the Boston Public Garden. These works will be selected from entries by a jury headed by Professor Lawrence B. Anderson of the Architecture Department.

The Arts Festival evening productions, in the Boston Gardens, under the theme of 'Midsummer Nights,' will include:

Folk Festival Week
English and Scandinavian music and dance — June 21
St. Cecilia Choral group, Lebanese, Syrian, Hungarian, Italian, French, Greek, Polish, Russian and Scottish dancers — June 22 through June 29

American Music — Fife and Drum Corps, marching bands, square dancing, block dancing — July 4
New Orleans jazz — July 5-6
Shakespeare play 'Midsummer Night's Dream' — July 7-14

Cape Cod's Melody Tent, at Hyannis, will give a series of musicals and jazz concerts.

'The Unsinkable Molly Brown,' by Meredith Wilson — July 1
'Music in the Air' by Jerome Kern and Oscar Hammerstein — July 8
Stan Kenton and his orchestra — July 14

'Carnival' — July 15
Dave Brubeck Quartet — July 21
'Call Me Madam' — July 22
Louis Armstrong — August 11

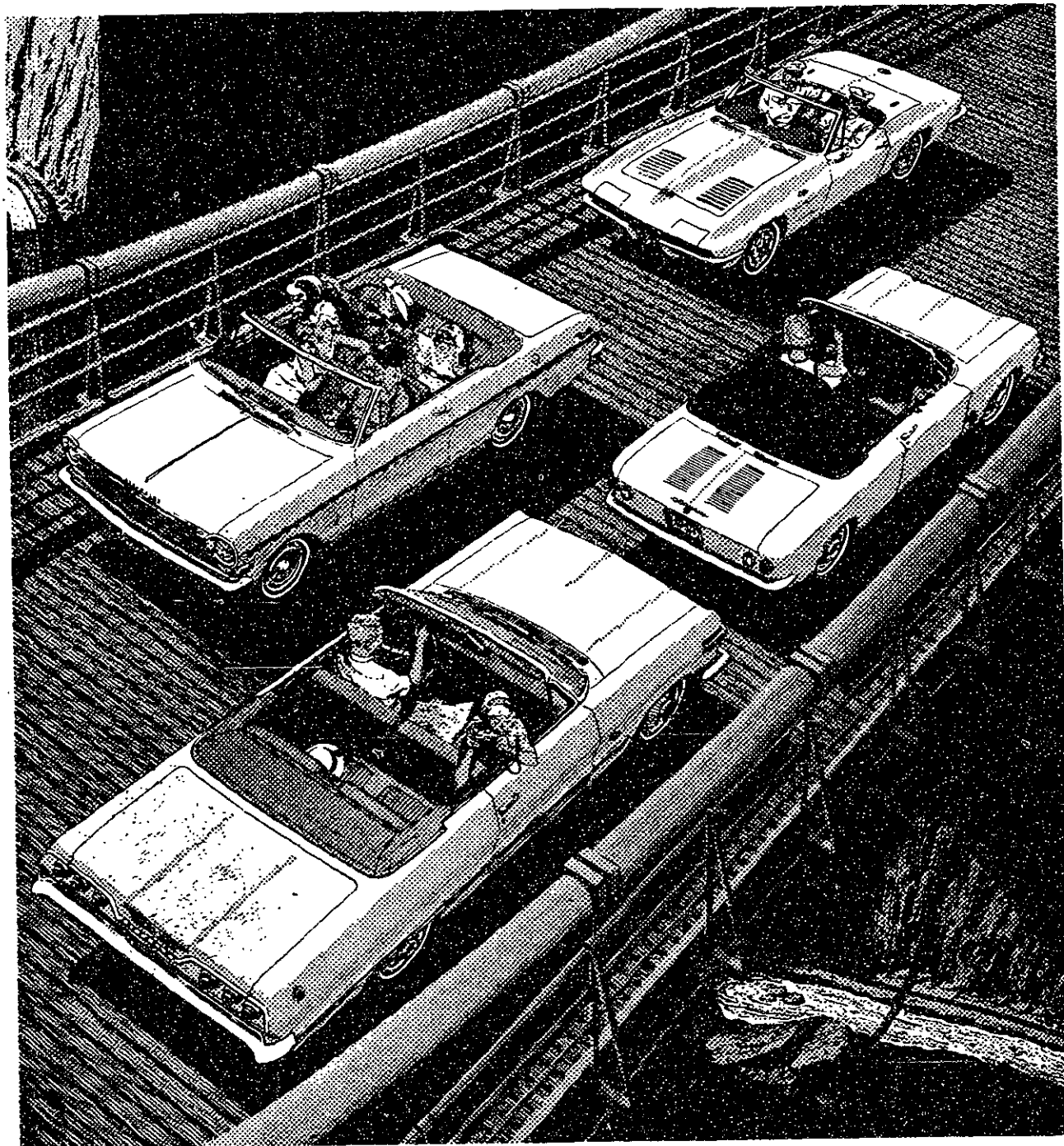
Also 'Guys and Dolls,' 'Pal Joey,' 'Desert Song,' 'Can-Can,' and 'Oklahoma!'

The Carousel Theatre at Framingham

State Archives Museum has

The State Archives Museum, a part of the Secretary of the Commonwealth's office, is open from 9:00 to 5:00 weekdays.

Located in the west wing of the State House, the museum houses the Massachusetts Bay Company, the other state and national documents. The Archives Search Room is open



Clockwise from bottom: Jet-smooth Chevrolet Impala, Chevy II Nova 400, Corvette Sting Ray, Corvair Monza Spyder

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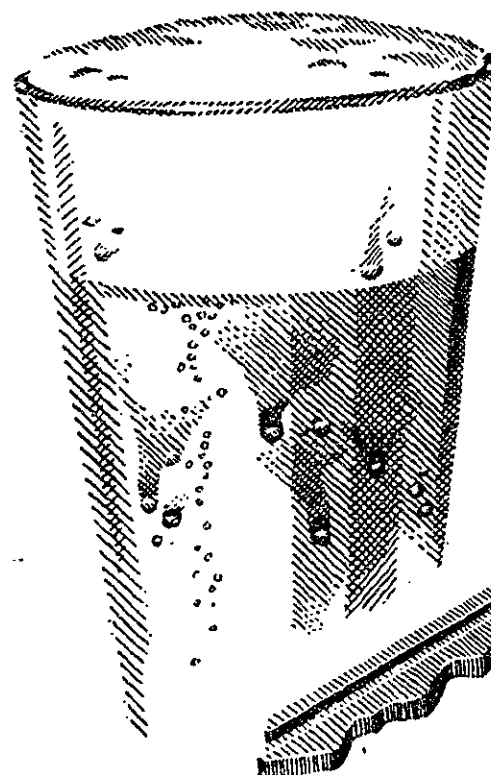
a long vacation trip in a brand-new car. And it's a smart time to trade, what with your Chevrolet dealer all stocked up for a busy summer. Chances are, he

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So maybe now you're all wound up? Then spring into summer at your Chevrolet dealer's.

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movies ...

Antonioni's 'Le Amiche' now at Brattle

By Gilberto Perez-Guillermo

After the international success of 'L'Avventura,' American movie audiences have been seeing more from Antonioni. 'La Notte' and 'Eclipse,' which he made afterwards, were readily shown in the United States, while not a single one of his previous works had had a similar luck. It is only now that the distributors have been picking up his earlier films: 'Il Grido,' which has not been shown in Boston, and 'Le Amiche,' now at the Brattle Theatre. 'Le Amiche' is so good that one can only hope that the trend continues, and audiences in America get to see more of Antonioni's early works.

'Le Amiche' is a very different film from 'La Notte' or 'Eclipse,' although one can always detect stylistic similarities. Those films were constructed of a great many related impressions, without a central plot in the conventional sense. Unlike them, 'Le Amiche' can probably be enjoyed purely as a story.

In more than one sense, 'Le Amiche' can be said to be the forerunner of 'L'Avventura.' The setting is, as in 'L'Avventura' and 'La Notte,' among the Italian upper classes. As in 'L'Avventura,' there is an outsider, who, at least in the beginning, does not fully accept the conventions and ways of the rich world. Clelia (Eleanora Rossi Drago) is a working woman, and this, Antonioni seems to say, automatically makes her different from her rich friends. Like Claudia in 'L'Avventura,' she tries, perhaps because it is convenient for her work, to join the rich world. Unlike Claudia, Clelia rebels against it. It is significant that a tragedy leads her to do so, while Claudia is drawn more towards the rich world as a result of Anna's disappearance, a probable tragedy.

Lorenzo, the painter in 'Le Amiche,' is, like Sandro, the architect in 'L'Avventura,' a failure as an artist (both characters are played by Gabriele Ferzetti). Sandro, in 'L'Avventura,' has already sold out to the rich world, and was embittered as a joint result of his artistic failure and his moral surrendering. In 'Le Amiche,' Lorenzo has become aware of his artistic failure, but seems to refuse to give up his personal dignity. Like Clelia, he rebels; unlike her, he eventually succumbs. When he resumes the relationship with his mistress, to whom he is inferior artistically, one senses the inevitable loss of his artistic individuality. This points to another distinguishing feature of Antonioni's films: women are the active elements, men the passive. The only exception in 'Le Amiche' is provided by Carlo, Clelia's lover, but he belongs to a different social class.

Antonioni's primary interest, as

LE AMICHE; directed by Michelangelo Antonioni; screenplay by Mr. Antonioni, Suso Cecchi D'Amico and Alba de Céspedes, based on the novel 'Tra Donne Sole,' by Cesare Pavese; photography by Gianni di Venanzo; music by Giovanni Fusco. At the Brattle Theatre, Cambridge.

CAST:
Clelia . . . Eleanora Rossi Drago
Lorenzo . . . Gabriele Ferzetti
Nene . . . Valentina Cortese
Momi . . . Yvonne Furneaux
Carlo . . . Ettore Manni
Cesare . . . Franco Fabrizi
An Italian film, with English subtitles.

usual, lies in the subjective elements of the story. By the use of purely cinematic means, he endows his characters with novelistic depth. It is in this sense that he is unequalled on the screen.

In 'Le Amiche,' Antonioni's social criticism, of an unmistakably Marxist character, has more importance than in 'L'Avventura,' 'La Notte' or 'Eclipse.' Some other themes, notably the inability of love or marriage to solve problems, are present in all four films.

Stylistically, 'Le Amiche' is not as fully developed as 'L'Avventura.' Just as one may detect in 'Eclipse' an exaggeration of the artistic devices which were masterfully employed in 'L'Avventura,' one sees them in 'Le Amiche' to a less developed extent. We see Antonioni's beautiful visual compositions, his use of the landscape (the beach picnic) or the city (Clelia and Carlo walking through a poor neighborhood) to convey subjective points. Some sequences (Lorenzo walk-

ing out of the cafe followed by the rich girl who loves him) are as good as anything he has ever done. If 'Le Amiche' does not reach the heights of 'L'Avventura,' it is only because 'L'Avventura' is one of the few great films of our time.

Finally, the Brattle Theatre deserves credit for bringing to town some of the finest films shown so far this year. Welles's 'Mr. Arkadin,' Heifetz's 'Lady with a Dog,' Bunuel's 'Criminal Life of Archibaldo de la Cruz,' Antonioni's 'Le Amiche,' and Demy's 'Lola,' probably my favorite in the group, were all very good indeed.

HARVARD SQ. UN 4-4590
Genet's
"The Balcony"
3:25, 6:35, 9:40
"Operation Snatch"
1:45, 5:00, 8:10

BRATTLE SQ. TR 6-4225
Michelangelo Antonioni's
"LE AMICHE" 1955
5:30, 7:30, 9:30
Saturday Matinee at 3:30
Starting Sunday
Antonioni's **"ECLIPSE"**
5:30, 7:30, 9:30
Sat. & Sun. Mat. at 3:30



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TILL WE MEET AGAIN

With today's installment I complete my ninth year of writing columns in your college newspaper for the makers of Marlboro Cigarettes. In view of the occasion, I hope I may be forgiven if I get a little misty.

These nine years have passed like nine minutes. In fact, I would not believe that so much time has gone by except that I have my wife nearby as a handy reference. When I started columning for Marlboros, she was a slip of a girl—supple as a reed and fair as the sunrise. Today she is gnarled, lumpy, and given to biting the postman. Still, I count myself lucky. Most of my friends who were married at the same time have wives who chase cars all day. I myself have never had this trouble and I attribute my good fortune to the fact that I have never struck my wife with my hand. I have always used a folded



It's a rare and lucky columnist

newspaper—even throughout the prolonged newspaper strike in New York. During this period I had the airmail edition of the Manchester Guardian flown in daily from England. I must confess, however, that it was not entirely satisfactory. The airmail edition of the Guardian is printed on paper so light and flimsy that it makes little or no impression when one slaps one's wife. Mine, in fact, thought it was some kind of game, and tore several pairs of my trousers.

But I digress. I was saying what a pleasure it has been to write this column for the last nine years for the makers of Marlboro Cigarettes—a fine group of men, as anyone who has sampled their wares would suspect. They are as mellow as the aged tobaccos they blend. They are as pure as the white cellulose filter they have devised. They are loyal, true, companionable, and constant, and I have never for an instant wavered in my belief that some day they will pay me for these last nine years.

But working for the makers of Marlboro has not been the greatest of my pleasures over the last nine years. The chief satisfaction has been writing for *you*—the college population of America. It is a rare and lucky columnist who can find an audience so full of intelligence and verve. I would like very much to show my appreciation by asking you all over to my house for tea and oatmeal cookies, but there is no telling how many of you my wife would bite.

For many of you this is the last year of college. This is especially true for seniors. To those I extend my heartfelt wishes that you will find the world outside a happy valley. To juniors I extend my heartfelt wishes that you will become seniors. To sophomores I extend my heartfelt wishes that you will become juniors. To freshmen I extend my heartfelt wishes that you will become sophomores. To those of you going on into graduate school I extend my heartfelt wishes that you will marry money.

To all of you let me say one thing: during the year I have been frivolous and funny during the past year—possibly less often than I have imagined—but the time has now come for some serious talk. Whatever your status, whatever your plans, I hope that success will attend your ventures.

Stay happy. Stay loose.

© 1963 Max Shulman

* * *

We, the makers of Marlboro Cigarettes, confess to more than a few nervous moments during the nine years we have sponsored this uninhibited and uncensored column. But in the main, we have had fun and so, we hope, have you. Let us add our good wishes to Old Max's: stay happy; stay loose.

FRIDAY

10-250

75c

KRESGE

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SATURDAY

L
S
C

MAY 17

6:30

9:00

NEVER GIVE
A SUCKER AN
EVEN BREAK

starring

W. C. FIELDS

BOYS'
NIGHT
OUT

starring

KIM NOVAK

MAY 18

5:15

7:30

9:45

L
S
C

Work underway on new center



Work continues on the foundation for the new Materials Science Center. The center is expected to be complete in 1964.

Direct distance dialing: Dial '1'

A new method of dialing long-distance calls is in effect from exchanges listed in the four Boston telephone directories.

This new method requires dialing '1' before the area code of a

long-distance call. This tells the direct-distance-dialing equipment that the call is going outside the Boston area. It also safeguards customers against wrong numbers resulting from unintentional dialing of long-distance points.

Telephone equipment will accept calls both with and without the initial '1' until January 1964.

This transition period has gone into effect now so that customers will begin to use the new safeguard '1' and will be familiar with it before its use becomes mandatory.

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RE 4-2062

College World

Riots of spring come to Princeton; Also to Yale, Brown, and Brandeis

By Toby Zidle '63

Spring struck, for the first time, last week. With spring came that seasonal form of recreation—riots. Leading the league this year in that kind of activity is Princeton. Also among the leaders are Yale, Brown, and Brandeis.

The Princeton riot, nine days ago, involved 1500 students. The two-and-a-half-hour episode was described by Princeton authorities as the worst riot in ten years.

The demonstration began in the late evening when a small group of students sounded a loud siren and played on a bugle and bagpipes. Hundreds of students came streaming out of the dormitories to begin a parade through the campus and through the town of Princeton. Several students set off firecrackers and cherry bombs.

The rioters, in their march through the town, dumped tons of litter, obtained from large trash cans lining several streets as part of the town's current anti-litter campaign. They turned next to the Pennsylvania Railroad, whose tracks go through the middle of the campus. A fire on the tracks damaged eight railroad ties. Two Pennsy cars also were damaged, although rioters were unsuccessful in their attempts to overturn them.

Other incidents included the trampling of Princeton President Robert F. Goheen's flower garden and the uprooting of an iron fence

surrounding his on-campus home. Dismayed, Goheen condemned the disturbance as a "shocking display of individual and collective hooliganism."

Princeton officials have threatened to take "serious disciplinary action" against students who lost their identification cards or were arrested during the riot. Local police, reinforced by New Jersey state troopers, arrested 14 students and charged them with "participation in riotous behavior and damage to property not their own." Damage was estimated to come to several thousand dollars.

Seventeen Arrested At Yale

Nightstick-swinging New Haven policemen arrested 17 students in an early-morning riot at Yale Friday. The riot, not unexpected by campus police, began about 1 am Friday when 300 students burst out of a dormitory carrying one of their classmates, wrapped in toilet paper.

Chanting "Evil! Evil!" they marched on Helen Hadley Hall, a dormitory for women graduate students. As they reached the building, the chant changed to "We want sex." The girls just looked out the windows and smiled.

After a short stay at Hadley, the marchers moved toward the Taft Hotel, where the girl friends of Yale students customarily stay while visiting in New Haven. By

now the crowd had swelled from 300 to about 1500.

At this time, the New Haven police converged on the scene. They began to herd the students back toward the dormitory area. Then someone threw a firecracker. And then the police charged with nightsticks. As one policeman took a flying leap at a student and landed empty-handed at the base of a fire hydrant, another student walked off with the keys to the police car. By 2:30, all that was left to the riot was the occasional sound of a firecracker.

What caused the riot? One student said that Yale did not want to be outdone by Princeton.

'Not Another Princeton'

"We don't want another Princeton," pleaded Brown University President Barnaby C. Keeney Thursday night as he tried to get his students back to their dormitories. Unsuccessful, Keeney then shouted, "If there is any student from Brown here in five seconds, he will be thrown out of school."

The demonstrations at Brown began shortly before 9 pm when campus police broke up an interfraternity baseball game, reportedly because windows were being broken.

This set off a march on women's dormitories at Bryant and Pembroke colleges. Some of the buildings were entered and students returned waving girls' panties. A Pembroke dean said it was the first time in 16 years that Brown men had managed to reach the upper floors of a Pembroke dorm.

The students, now over 1100 strong, next massed in front of the Brown library where President Keeney told them to go home. The crowd dwindled only momentarily, but grew again as the marchers moved toward the downtown area, cheering everything in sight.

The crowd then grew as students from Pembroke, Bryant, and the Rhode Island School of Design joined in. The marchers proceeded through a tunnel reserved for busses, tying up traffic. Several busses were hit by flying stones.

This brought in Providence police, in cars and on motorcycles, all wearing riot helmets. In addition to swinging nightsticks, however, the police brought in five dogs. Several students claimed to have been bitten. Students retaliated by hurling anything they could find at the police. In the process, many cars suffered broken windshields.

By the time things had quieted down, the dogs had won. Fifty people, most of them students, had been taken into custody. Eighteen were charged with disorderly conduct.

Also Thursday night, 1500 students staged a mild revolt at Brandeis. Eighteen Waltham police officers arrived to control the demonstration. The demonstration never got out of hand, however, and no arrests were made.

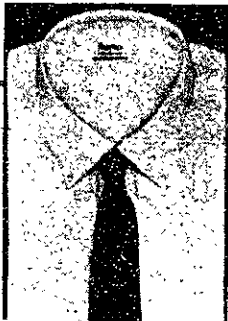
Said one student, "It was a hot night and we wanted to cool off."

Vietnamese students to conduct book drive

The Vietnamese Student Committee on Cultural Affairs will conduct a book drive from May 23 to June 2. The purpose of the drive is to provide books for Vietnamese college students.

The drive, a pilot project of the committee, will be primarily aimed at soliciting books from the libraries of the area and from graduating seniors who wish to dispose of surplus texts.

The group will have booths in Buildings 10 and 24, and boxes in the various dormitories. The Boston Public Libraries and the MIT Library have already offered some 1500 old books to the group.



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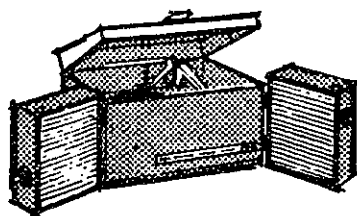
Tempest Winners... Final Lap!



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Roger E. Garlicki De Paul U.	Judson K. Farnsworth Northeastern U.	Linda Ivancovich San Jose State
Stuart Strenger Georgia State	Raymond T. Joyce, Jr. Bryant College	Cheryl A. Moore Portland State



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Consolation Prize Winners...Laps 1, 2, 3!

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Billy D. Farris Sam Houston State	Baxter Myers, Jr. Stephen F. Austin State	Sylvan Gordan Cal. State Poly
William L. Bradley Louisiana State	George F. Smith San Jose State	THIRD LAP Rev. John Thompson Gannon College (Fac.)
Charles Perry, Jr. Providence College	Harold L. Schild U. of Illinois	Michael J. Kopcho Duquesne
SECOND LAP John M. Mulcahy U. of Connecticut	Richard Friedlander C.C.N.Y.	James W. Mize U. of Texas
	Rochelle Tandy Pembroke College	

Tempest Winners...Laps 1, 2, 3!

FIRST LAP Ashton B. Burke U. of Kentucky	Jose M. Martinez Gonzaga U.	THIRD LAP Gary L. Lewis U. of San Fran.	James W. Todd Valparaiso U. (Staff)
Roger P. Blacker N.Y.U.	Roger A. Kueter Loras College	John V. Erhart Loras College	W. T. Oliver Lafayette College
John N. Bierer The Citadel	Earl F. Brown Colgate (Fac.)	Byron D. Groff Penn State	Justin C. Burns St. Bonaventure U.
William P. Martz Kent State	Cdt. B. R. Gardner V.M.I.	D. B. MacRitchie U. of Michigan	Edward R. Wassel Clarkson College
Lucy Lee Bassett Emory U.	V. M. McManamon DeVry Tech. Inst.	J. L. Millard, Jr. Ft. Hays State	Morris S. Boyer U. of Georgia
SECOND LAP Richard L. Smit U. of Michigan	H. H. Anderson Okla. State (Fac.)	J. O. Callegos, III U. of New Mexico	G. J. Tamalivich Worcester Poly (Staff)
R. Montgomery, Jr. Texas Tech.	David E. Lloyd San Diego State	N.T.G. Rosania S. Kansas State	Anclit K. Nance Portland State
	R. I. Salberg, Jr. U. of California		P. S. Holder, Jr. St. Mary's U.



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Pool finds business exerts little pressure on foreign-trade policy

Ithiel de Sola Pool, professor of political science is co-author of 'American Business and Public Policy,' the result of a 10-year study in which over 1400 businessmen, congressmen, lobbyists, and journalists were interviewed.

Prof. Raymond Bauer of Harvard and Lewis Dexter, a political consultant in Washington, collaborated on the book. It analyzes American attitudes toward foreign trade, particularly with respect to tariffs.

The authors concluded that pressure groups have far less influence in Congress than they are commonly given credit for. Most businessmen are uninformed or undecided about the tariff issue. Congressmen appear to be the real leaders in determining American policy.

Cricketers score 104 runs

The MIT Cricket Club visited Yale on Saturday May 11th and won a decisive 104-66 victory over their opponents. Yale won the toss and put MIT to bat. In two hours MIT scored 104 runs for the loss of seven wickets.



"SHE WAS ONLY THE DEAN OF MEN'S DAUGHTER"

(But oh what a record she made)

The only trouble is, it's been banned. From the radio at least. In fact, the whole darn Capitol album, "Campus Confidential" by the Four Preps, has been banned. "She Was Only the Dean of Men's Daughter" and the other numbers, like "Princess Poo-poo-ly Has Plenty Papaya," are just a little too... well, colorful for air play.

This album was recorded during a Four Preps Concert at UCLA. Their performance was wildly appreciated by the students, and we strongly suspect it will be wildly appreciated by everyone who hears it on this new Capitol release. (With the sole exception of radio station owners who want to keep their stations on the air.)

So slip into your nearest record store for "Campus Confidential" on Capitol. (In plain brown wrapper, of course.)

(P.S. Look for the Four Preps in concert on your campus.)



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Systems stressed

New management program offered

The School of Industrial Management will begin an experimental undergraduate program in September. The program has the primary objective of instilling in the students a deep insight into industrial management by stressing the concepts of systems analysis and practice as applied to the case of a firm. About ten juniors will initially be in the program next fall.

The experimental program will depart from the usual format of separate academic subjects. Instead, the student will undertake an on-going research program in systems dynamics. "Study units" in this program will be specified and available for the student to complete as rapidly as he is ready.

It is anticipated that academic grades will be replaced by verbal and written evaluation of each student's strengths and weaknesses by the faculty.

A major deficiency in business education has followed from an inability to deal with industrial systems in sufficient depth to show how the component relationships within the system create observed behavior. The Systems Curriculum Committee hopes that the new program will produce a student who is able to look beyond the obvious parts of a system into the interactions that underlie its behavior.

A future manager should be able to sense how certain inventory and employment policies can interact to create wide fluctuation in production rate and employment; how risk-taking propensity and integrity influence the success of research projects; how the traditional performance of an organization becomes its standard of performance, and how standards can drift downward as actual performance fails to meet the traditional standards; and how attempts to correct a trouble can often merely evoke counter pressures within the system to defeat the effort.

The program will depart from the common pattern of putting all basic material first in a sequence of prerequisites that eventually lead to the interesting substance of the field. When the conventional sequence is followed, integration is postponed while the separate foundations are learned. The Systems Curriculum Committee feels that it is entirely possible to start with a meaningful attack on an important problem and gradually to penetrate the necessary underlying disciplines.

The program will consist of the following:

1. The general Institute requirements, most of which will have been covered in the first two years.

2. The Humanities and Social Science electives in the junior and senior years as needed for the general Institute requirements.

3. An unspecified elective subject in each academic term of the junior and senior years.

4. All remaining time will be loosely organized into a block set aside for a program of research and guided study. The research core will consist of a series of projects in the study of dynamic systems.

5. The "minor" requirement in a field of science or engineering has been eliminated.

During the last few years there has been much discussion within the faculty regarding the merit of having a grading system. The Systems Curriculum Committee feels that the tone and atmosphere of the experimental program will be considerably enhanced by handling the grading question as is now being done in the freshman seminars. That is, grades of satisfactory or unsatisfactory will be entered without further distinction.

The committee has reported: "We feel there is often conflict between work which will obtain good grades and work which achieves true education. In this program we wish to explore an evaluation and feedback based on longer-term educational objectives rather than on the short-term preparation for quizzes."

The present plan is to accept about ten students per year into the program at the beginning of the junior year. One phase of the program would terminate with a B.Sc. degree in industrial management. For qualified students, it will be possible to continue the same style of program into graduate study.

If interim indications are promising, the experiment should continue some four years until after the first graduates have been away from MIT for two years. At that time the committee thinks there will be a basis for deciding whether or not the program can permanently contribute to management education.

MIT Press offers

books at 80% discounts

A limited number of publications are being made available to the MIT community by the MIT Press at an 80% discount.

The books cover such subjects as planning, engineering, humanities, science, and social science, and are reduced in price due to slight damages suffered in shipping. Those interested should contact Fred Bentley (Extension 5251) or visit the offices of the MIT Press in Kendall Square.

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1. I'll tell you what you have to look for in a job. You have to look for fringe benefits. That's the big thing today.

Yes—the big thing.

2. You have to consider your needs. You're going to get married some day, aren't you? Then you need life and accident insurance.

Go on—go on—



3. You're going to have kids—so you'll want maternity benefits.

I'd like lots of children.

4. And what about medical bills? That's something every big family has to think about. You need a good major medical plan that covers almost everything.

You're right—you're right!

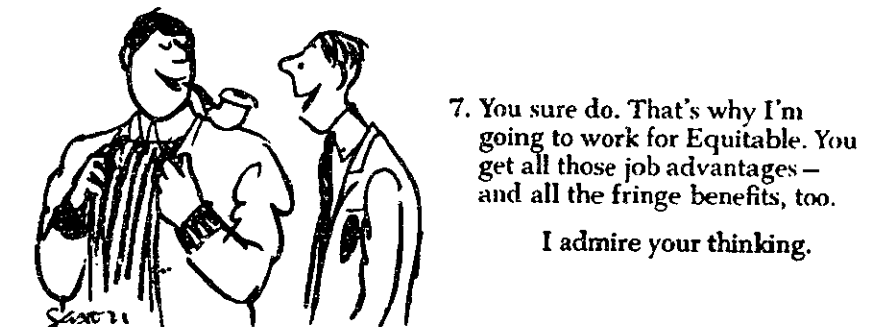


5. And you're not going to want to work all your life, are you? You're going to want to take it easy—you know, travel around, live it up. So you need a retirement plan that guarantees you plenty of dough.

I can see it now.

6. That's why I say you have to look at the fringe benefits when you look for a job.

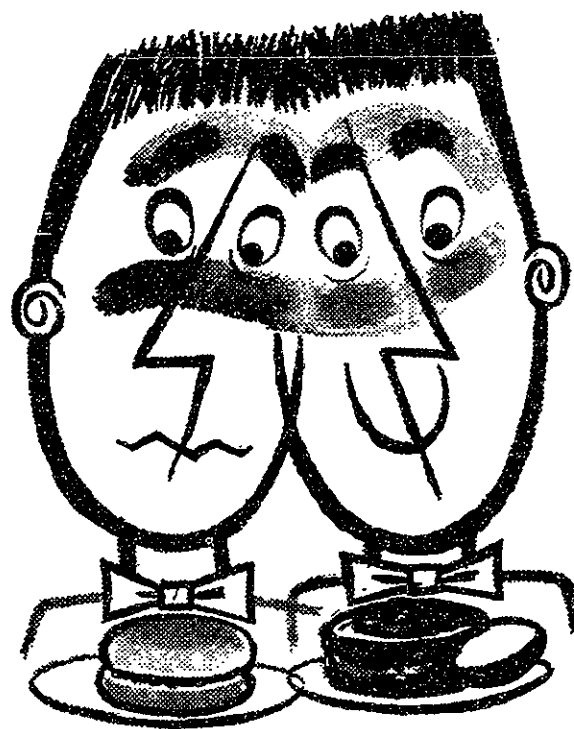
But don't you also have to look for interesting work, good income, the chance for advancement?



7. You sure do. That's why I'm going to work for Equitable. You get all those job advantages—and all the fringe benefits, too.

I admire your thinking.

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why eat hamburger when you can have filet mignon?

Hamburger is good but filet mignon is better. Some fellows in college work for meals. Others work in stores and offices for wages they are ashamed of. The lucky ones sell Great Books and—with a little bit of luck and perseverance—become B.M.O.C. overnight—or at least after getting the first few orders.

The Great Books Sales Organization understands the needs and desires of college students. The Top Man—Senior Vice President Marvin A. Jolson—began selling books for the company while attending George Washington University. He had a wife and child, tuition, books, and room and board to pay for—in short, he needed money. No, he didn't write 100 orders the first week—just one. The second week he got two and a paycheck for over \$100. He continued writing orders, making money, and got his B.E.E. in 1949.

After getting some experience in the engineering field, he found that selling Great Books was his first love and returned to it full-time. In 1962, Jolson was appointed Senior Vice President in charge of the Great Books organization—the youngest man ever to hold this position.

Under Jolson, Great Books is anticipating the largest expansion program in its history. This means that excellent openings are available now particularly for summer work by college students. Trainees who qualify can expect to earn up to \$300 the first month and \$450 by the second month with steady increases thereafter. (In addition, they will gain poise, and learn how to handle people—all of which are valuable assets for any future job.) Those who qualify and do part-time selling during the school year will also be eligible to share in the Salesman's Annual Incentive Fund... a bonus plan that makes it possible for you to earn up to \$1,000 in addition to commissions.

Those interested in full or part-time careers as a Great Books representative should contact the local Great Books office or write, phone, or wire collect:



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425 N. Michigan Avenue
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or
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Brookline
RE 4-3550**

Senior Vice President
Marv Jolson

Strategic material

Western Electric mass-produces quartz crystals

One of the world's first factories for mass-production of quartz crystals for communications purposes recently went into operation at the Merrimack Valley works of the Western Electric Company.

The start of production on a commercial basis marked the successful climax of more than 50 years of experimentation and research; it also signified the end of the United States dependence upon foreign supply of pure quartz crystals. A strategic material, the crystals were in critically short supply during World War II.

Quartz crystals are used in radio and television transmitters, telephone communications equipment, radar, and sonar. Previously, the prime source for them has been the interior of Brazil, where mining of the fist-sized crystals required for communications is done by individuals on a free-lance basis, resulting in unstable supplies and high prices.

The new factory grows quartz crystals of superior size and qual-

HITCH-HIKER on Harvard Bridge who was given woman's bulky maroon sweater Tuesday (5-7-63) evening by driver of old Plymouth — Please return same to Bernie Yaged at "The Tech" office. \$5.00 REWARD.

ity under tremendous pressure and heat. In the growing area, twenty cylindrical vessels, each about ten feet long and a foot in diameter, are sunk below the surface of the floor. A long wire basket is lowered into each vessel.

Seed crystals are suspended in tiers at the top of each basket. The lower half of the basket is filled with small, inexpensive pieces of natural quartz. In this form quartz is readily available from many sources but is unsuitable for communications purposes.

To begin the growth cycle, a weak alkali solution is poured into the vessel, which is then sealed. A heavy steel shield is lowered over the top by a crane for additional protection.

The contents of the vessel are heated to a temperature of 700 degrees, and the interior reaches a pressure of about 25,000 pounds per square inch.

It takes about three weeks of continuous growth to produce a harvest of crystals. Under the heat and pressure, the small pieces of quartz at the bottom of the basket dissolve into the alkali solution. Crystals of quartz are redeposited from solution and slowly build up on the "seed" plates at the top of the basket, where the temperature is slightly lower.

While quartz in a variety of forms is the world's most common

mineral, the pure, colorless crystals required for communications cost about \$30 a pound in the natural state. Imperfections found in even the best of natural crystals and waste from slicing operations result in the loss of about 97 per cent of the material. This brings the cost of the quartz in the final plates used for electronic purposes to about \$94 an ounce (\$1500 a pound). By comparison, gold costs \$35 an ounce.

Only three technicians are required to operate the new factory's growing area, which is automatically controlled except for loading & unloading the crystal-growing vessels.

While scientists have been attacking the problems of making suitable crystals for half a century, it was only a few years ago that the most successful method, the hydrothermal process, was developed by Bell Telephone Laboratories. The achievement followed several years of research and experimentation after World War II.

In 1958 a pilot plant for converting the laboratory process to commercial production was established at the Merrimack Valley Works of Western Electric, the Bell System's manufacturing and supply company. Additional development work had to be undertaken by Western to solve other problems in converting the laboratory process to factory production.

Not only does the hydrothermal process produce quartz at a fraction of the price of natural crystals, but also the synthetic variety contains fewer imperfections, dimensions can be controlled and much more of each crystal is usable.

Fund success celebrated



Alfred P. Sloan speaks before alumni at the campaign-closing dinner of the Second Century Fund Tuesday, May 7. Vannevar Bush, honorary chairman of the Corporation, was honored in a special citation by Dr. James R. Killian, Chairman of the Corporation.

For radio communication

Project West Ford orbits fibers

(Continued from Page 1)

photometric observation of satellites.

The first conclusive radar contact with the cloud of fibers was made about 1:00 pm Sunday by the Lincoln Laboratory Field Station in Westford, Massachusetts. Observation has also been made by the west coast station in Pleasanton, California. Tracking operations are continuing, to get more accurate information about the location of the cloud and to observe the formation of the belt.

Ejection of the dipole package

from its sealed canister took place, on radio command from the ground, only after careful observations showed that it would be placed in a suitable resonant orbit. In this orbit, the force exerted on the dipole fibers by radiation pressure from the sunlight will limit the lifetime of the test belt to not more than five years. By that time, the solar radiation pressure will have forced all the dipole fibers down to lower altitudes where the atmospheric density is greater and the dipoles will disappear harmlessly in this region.

Rooms burglarized in Baker House

Baker House has recently suffered a number of petty thefts, in which several residents have lost money.

The burglaries, occurring over the past few weeks have consisted of cash thefts from rooms whose doors were left unlocked.

AP0 elects officers; Carl Mampaey president

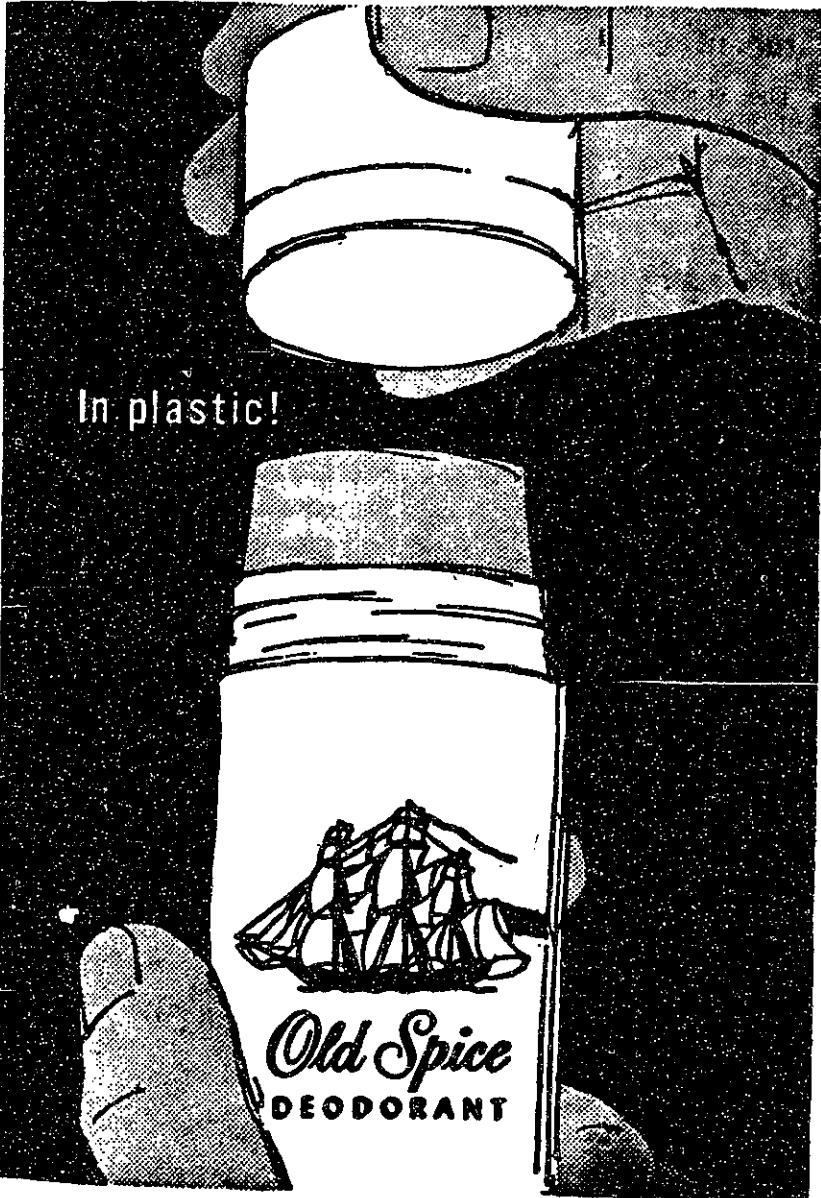
The Alpha Chi Chapter of Alpha Phi Omega elected officers for the coming term at a meeting Wednesday, May 8.

The new officers are: Carl Mampaey, president; Abba Weinstein, membership vice-president; John Prokopy, service vice-president; David Bivins, social vice-president; John Freeman, treasurer; Steve Lipner, publicity di-

rector; John Christensen, alumni secretary; Tim Connelly, corresponding secretary; Steve Bless, recording secretary; and Bill Byrn, historian.

In other action Wednesday night APO, decided to go ahead with its planned series of talks by MIT professors on topics of their own specialization beginning next fall.

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THE TECH COOP

Benedict to visit Russia Stag banquet, semi-formal dance with top US scientists major events of Senior Weekend

Dr. Manson Benedict, professor of nuclear engineering, will visit the Union of Soviet Socialist Republics May 20 as a member of a United States delegation of top scientific experts being sent by the Atomic Energy Commission.

Dr. Manson, chairman of the General Advisory Committee of the AEC, will accompany AEC Chairman Glenn Seaborg and eight other officials and scientists to Moscow.

The delegation is visiting the Soviet Union in response to an invitation by Andronik Petrosyants, chairman of the Soviet counterpart to the AEC. The group will visit a number of Soviet scientific installations. During the visit, Dr. Seaborg and Mr. Petrosyants are scheduled to sign a memorandum on co-operation in the peaceful uses of atomic energy.

A stag banquet and a semi-formal prom will be the two major events at Senior Weekend, May 31 and June 1.

The banquet, Friday at Walker Memorial, will offer a choice of a steak dinner or lobster. Jerry Shane, of the 'Tonight' show, will provide the entertainment.

At the Faculty Club, Richard Martin and his orchestra will provide music for Saturday evening's prom. Following this event, there will be a midnight buffet in the Faculty Lounge.

Tickets for the weekend are available this week through living groups and in the lobby of Building 10.

Tourney this week

5 squash teams unbeaten

Senior House A, Electrical Engineers, Theta Xi, Zeta Beta Tau and Burton House A finished the intramural squash season with unblemished records. A single elimination tournament is scheduled to start this week because of approaching finals.

The Electrical Engineers are

slated to play Theta Xi. The winner of this contest will meet Senior House A. The winner of this match will play the winner of the ZBT-Burton House A game for the championship.

FINAL STANDINGS

League I			League II		
	W	L		W	L
Senior House A	6	0	Electrical Engineers	6	0
Grad House B	4	1	Theta Delta Chi A	5	1
Delta Kappa Epsilon	4	2	Lambda Chi Alpha A	4	2
Phi Gamma Delta	3	3	Sigma Phi Epsilon A	3	3
Sigma Alpha Epsilon B	2	4	Kappa Sigma Epsilon C	2	4
Phi Sigma Kappa	1	5	Sigma Alpha Epsilon C	1	5
Baker C	0	6	Phi Beta Epsilon	0	6
League III			League IV		
	W	L		W	L
Theta Xi	5	0	Zeta Beta Tau	5	0
Chi Phi	3	2	Lambda Chi Alpha B	3	2
Baker B	3	3	Alpha Epsilon Phi	3	2
Sigma Alpha Epsilon	2	3	Burton B	3	2
Burton C	2	3	Baker A	1	4
Sigma Phi Epsilon B	0	5	Theta Delta Chi B	0	5
League V					
	W	L		W	L
Burton A	5	0			
Grad House A	4	1			
Phi Lambda Phi	1	4			
East Campus	1	4			
NESB	0	5			

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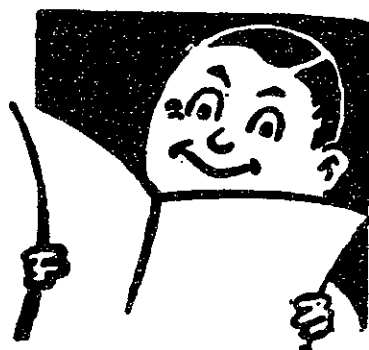
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Meet Harvard today

Ruggers lose 2 to Brown

By Susan M. Rogers

Brown's backs romped to a double victory over Tech's rug- gers Saturday at Providence, win- ning the first game 14-6 and the second 20-13.

MIT will match brawn and skill with Harvard on Briggs Field this afternoon at 5:00 pm. The finesse of the Crimson's backs and the power of its scrum should make this traditional encounter the most spirited match of the season.

In the first game Saturday, the

scrum played its best this year, but Brown's backs were too fast and powerful. David Zucconi led their scoring with three tries. Early in the game David Koch '62 scored a try, and Jim "Pos" Postula '65 made another when the scrum was in the end zone.

Knocking heads hard with a Brownman, wing forward Larry Pitts '62 broke the bone under his eye. At the beginning of the match, Brown's wing Peter Ru- bin was injured.

The Engineers were ahead 13-0 at halftime in the second game, yet lost 20-13. Brown's backs came through faster, and the scrum failed to get enough of its lineouts. Russ Johnson '66, John Prussing '62 and Tom Carroll scored, and John Enos converted twice.

Starring for Brown was its speedy flyhalf who is a football halfback in the fall. Bill "Wahoo" Vareschi, cheered on by his fans, gave Tech trouble in both games, and scored three tries in the second.

Varsity sailors third in NE championships

The varsity sailing team placed third behind the University of Rhode Island and Harvard in the New England Championships held in Rhode Island last weekend.

In an upset victory, Rhode Is- land beat Harvard 143 to 140. Tech sailors Ken Klare '63, Scott Hynek '65 and Fred Kern '65 were not able to keep up to this pace and had to settle for a third with 125 points. Of the remaining six teams, Coast Guard was fourth, 19 points behind Tech.

Burton House takes IM table tennis tourney

The intramural table tennis playoffs were completed last week. Burton House swept 1st, 2nd, 4th, 13th and 15th to win the title. East Campus tied for second with a 9-2 playoff record.

Final Standings

	W	L	IM
1. Burton A	10	1	40
2. Burton C	9	2	25
2. East Campus A.	9	2	23
4. Burton B	7	4	18
5. Baker A	6	5	16

6. Phi Beta Epsilon	5	6	14.5
6. Baker D	5	6	14.5
8. Baker C	3	8	12.5
8. Baker B	3	8	12.5
10. Alpha Epsilon Pi A	2	9	11
11. Sigma Alpha Epsilon A	1	10	10
12. Phi Delta Theta	0	11	9
13. Burton D	5	2	7.5
Grad House A	5	2	7.5
13. Sigma Phi Epsilon A	5	2	7.5
15. Burton E	4	3	6
16. Phi Delta Theta B	2	6	3
17. Senior House A	1	6	1
17. Phi Kappa Theta A	1	6	1
17. Chi Phi A	1	6	1
20. Sigma Alpha Mu	—	—	1

Lights vie for Ralph T. Jope Cup in EARC sprints

By Clifford Weinstein

Lightweight crews will be competing for a new trophy at the Eastern Association of Racing Col- leges Sprints at Worcester, Massachusetts, this Saturday. A silver cup, donated by the MIT ath- letic board in the name of Ralph T. Jope (class of '28), will be awarded to the school which scores the best composite total in all lightweight races.

Rowe Cup Awarded to Heavies

The annual EARC regatta is composed of 2000-

meter races in all heavyweight and lightweight classes. Trophies are awarded for victories in in- dividual races (heavyweight and lightweight var- sity, JV, and freshmen); and the college that does best overall in the heavyweight races is awarded the Allen Winter Rowe Cup, which was donated by MIT in honor of Mr. Rowe (class of '98), dur- ing the time when Mr. Jope was secretary of the advisory council on MIT athletics.

Jope Athletic Head 1934-47

The MIT athletic board gave this honor to Jope on the basis of "his significant influence on the development of athletics at MIT, following the period of Allen Winter Rowe." There was no offi- cial director of athletics at MIT before 1947, and Mr. Jope, as secretary of the MIT advisory council on athletics from 1934-1947, was effectively MIT's athletic director during that period.

Tech Shoots for EARC Titles

The MIT crews will be well in the thick of things in all facets of the EARC championships, and stand a good chance to bring the newly- instituted Jope trophy back to Tech. Tech's var- sity and JV lightweights scored victories over Penn and Harvard, respectively, last Saturday to remain unbeaten in competition this year. The JV heavies have been topped only by Yale, while the varsity will be fighting to come back from heartbreakingly close losses to Harvard and Wis- consin in the past two weeks.



MIT Director of Athletics Ross H. Smith congrat- ulates Ralph T. Jope on cup that MIT donated in Mr. Jope's honor to the Eastern Association of Racing Colleges. The trophy will be awarded to the college whose lightweight crews register the best composite score in the annual EARC sprints.

—Photo by Joe Baron

Frosh sports

Baseball squad defeats New Prep 2-1

By Mike Newhouse

The freshman nine defeated New Prep 2-1 Thursday in a hard fought contest on Briggs Field. Larry Calof went all the way on the mound for Tech, allowing only four hits and striking out seven- teen. Shortstop Tom Bailey scored both runs for MIT in the fourth and seventh innings. Saturday's game with Newton Jr. College was postponed.

Track

The track squad sent four con- tenders to the Greater Boston Indoor meet at Brandeis. Larry Schwoeri, Sumner Brown, Rusty Epps and Rex Ross made up the mile relay team that represented MIT. The results of the meet were not available at presstime.

Tennis

The netmen downed Province- town Priory by a 7-2 score last

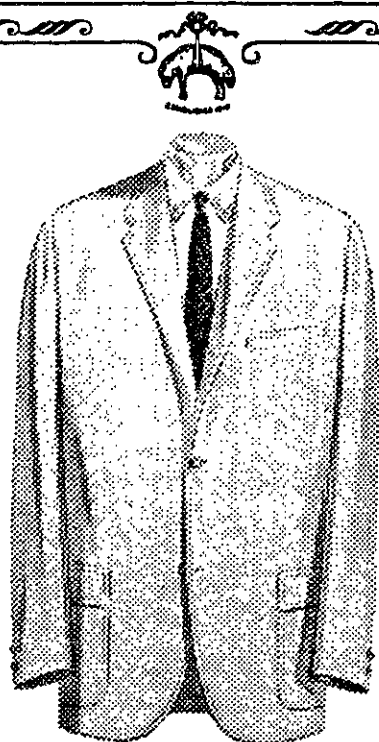
Tuesday. Richard Thurber, Tech's number two man, dropped a close match in split sets, and the num- ber two doubles team was edged for the sole Tech losses.

Lacrosse

The stickmen split last week, defeating Tufts 5-4, and falling

to St. Lawrence Academy 10-1. Against Tufts Thursday, Pete Kirkwood led all scorers with three goals. George Randall and Tom Bush scored the other tal- lies for MIT. Pete Grant was the only man to net a goal for Tech in the St. Lawrence contest.

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TECH COOP

Varsity, jr.-varsity lightweights stay unbeaten

By Bob Vernon

MIT's varsity lightweights extended their unbeaten streak with a decisive three-length victory over Pennsylvania and Navy at Annapolis Saturday.

Only the varsity traveled to Annapolis, as the other eights were guest entries in the Golthwaite Cup held on the Charles. In that regatta, the MIT junior varsity topped the Harvard, Princeton, and Yale JV's, to remain unbeaten, while the first frosh and third varsity were defeated.

Varsity wins easily

In the varsity contest, MIT took an early lead and increased it steadily over the entire 1 5/16 mile course. Racing in rough water with a strong tailwind, Tech settled to a low but powerful 32 strokes per minute, after gaining

a three-quarter length lead at the start. As Penn and Navy battled for second place, MIT forged ahead, finishing in 6:56. Penn, finishing in 7:07, edged Navy by less than one-half second.

JV's edge Harvard

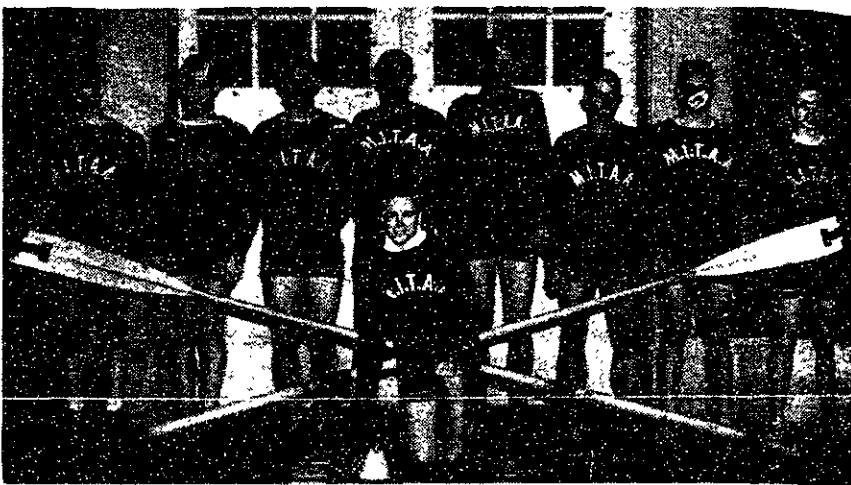
Racing on the Charles, the light JV's jumped out to an early one length lead over Harvard. However, the referee stopped the race after two minutes because Yale and Princeton fouled by crossing out of their lanes. When the contest started again, MIT was unable to regain the margin, and the race emerged into a close see-saw duel between Tech and Harvard. In the closing sprint, however, stroke Eric Jorgensen '64 raised the beat to a fantastic 46 strokes per minute, and MIT crossed the finish line first in

6:37. Harvard finished in 6:37.4, with Yale and Princeton far behind.

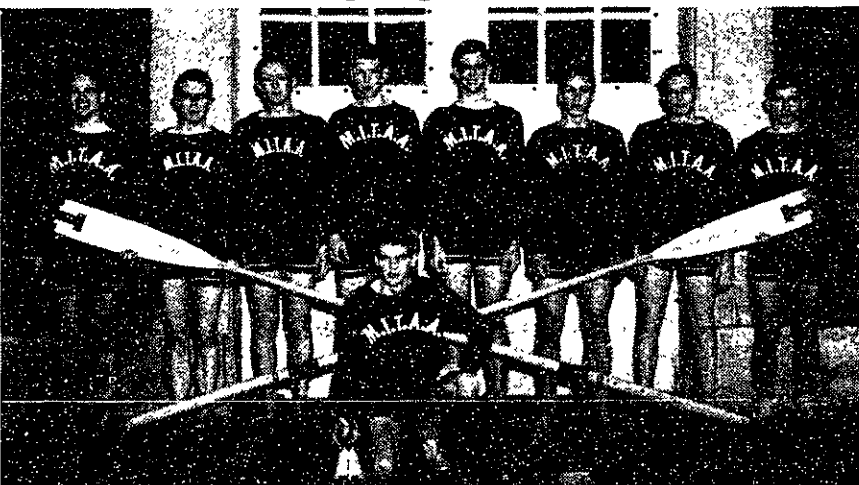
Frosh lose

In the first frosh race, Harvard defeated the Tech yearlings by over a length with Yale and Princeton trailing. Times were Harvard 6:36 and MIT 6:43.8.

In the preliminary contests, the third varsity raced the closest contest of the day, with MIT being edged by Harvard. Tech fell short by 10 inches after a fine closing spurt. The second frosh, however, again put MIT in the winning column with a decisive victory over Harvard and Princeton.



MIT's unbeaten varsity lightweight crew: (left to right) Stroke Mark Barron '64, Herb Herrman '64, Pete Staeker '64, Ron Cheek '63, Dennis Buss '63, Rick Metzinger '63, John Proctor '65, Mike Greata '63; Cox.



MIT's undefeated JV lightweight crew: (left to right) Eric Jorgensen '64, Jack Lynch '63, Wayne Haase '65, Jim Piepmeyer '65, Dave Evans '64, Bill Carithers '64, Lou Taff '63, Dick Arolo '65; (kneeling) Coxswain Julian Adams '64.

Edged by Tufts

Lacrossemen down Trinity 4-2

By Ted Young

MIT's stickmen downed Trinity College 4-2 Saturday for their second win of the year. The Techmen were edged by Tufts 6-5 Thursday.

The Engineers played a poor first half to give the Tufts squad a 4-0 lead at half-time. In the second half Wayne Matson '64

sparked a rally with a goal in the first 35 seconds of the third quarter. At the end of this quarter the score was 5-3. Both teams scored in the final period to bring the final score to 6-5. Other Tech scorers were Bill Dreiss '64 and Tony Weikel '63.

Bill Roessler '65 scored the first goal of the Trinity game with a shot from the right of the crease. No further Tech goals were scored during the first half. In the meantime Trinity scored two goals to bring the halftime score to 2-1. After halftime Trinity scored the first goal, but after that the game was completely controlled by the Engineers. On an excellent fast-break pass from Fred Souk '65, Tony Weikel scored Tech's second goal. Wayne Matson scored on a powerful shot from the midfield line 22 seconds later. Trinity controlled the ball for about one minute of the 15 in the fourth quarter. During this period Tech scored two more goals, one by Weikel and one by Dreiss on a pass from Weikel.

Golfers place fifteenth in NE championships

MIT's golfers finished 15th out of 28 teams in the New England championships which were played at the Taconic Golf Club in Williamstown last Friday. Neil Hull '63, Mike Finson '63, Bill Graham '64, Peter Lubitz '65, and Roy Carver '65 shot an aggregate of 355, far back from the 326 shot by the winning team from the University of Connecticut.

The golf squad plays its final matches today in a home triangular meet with Springfield and WPI.

How They Did

BASEBALL
MIT (F) 2—New Prep I
CREW
Varsity Heavies
Won by Wisconsin, 9:45; 2, MIT, 9:45
JV Heavies
Won by MIT, 9:57; 2, Dartmouth
1st Frosh Heavies
Won by Dartmouth, 10:08; 2, MIT, 10:15
2nd Frosh Heavies
Won by Dartmouth, 10:20; 2, MIT, 10:27
Varsity Lights
Won by MIT, 6:56; 2, Pennsylvania,

7:07; 3, Navy, 7:07.4
JV Lights
Won by MIT, 6:37
1st Frosh Lights
Won by Harvard, 6:36; 2, MIT, 6:43.8
LACROSSE
MIT 4—Trinity 2
Tufts 6—MIT 5
MIT (F) 5—Tufts (F) 4
St. Lawrence Academy 10—MIT 1
TENNIS
MIT 7—Amherst 2
MIT (F) 7—Provincetown Priory 2
TRACK
MIT 85—Brandeis 41

Badgers beat Beaver varsity heavies by three inches for Cochrane Cup

By Chris Miller

The University of Wisconsin Badgers came from behind to defeat a revamped MIT varsity heavyweight crew by three inches in the race for the Cochrane Cup at Dartmouth Saturday.

Tech's JV and third varsity won their races, while both freshman crews lost. Conditions on the Connecticut River were excellent for all races.

Varsity strong at start

The varsity eight, stroked by Bob Sandel '64, gained a few seats at the start by powering it off the line at about 42 strokes per minute. The crews were within a few seats of each other for the first half mile, as MIT settled to 32, Wisconsin to 31, and Dartmouth to a rapid 34 strokes per minute. For the next half mile, MIT began to surge ahead bit by bit, and Dartmouth began to fall back. At the mile-to-go mark, the Engineers were leading Wisconsin by a length and Dartmouth had fallen back two lengths. The Badgers started their bid with three-quarters mile to go, and chopped Tech's lead to three-quarters of a length. With a half mile to go, the Badgers crept to within a half a length. Both

crews sprinted for the last quarter-mile, but the Badgers finished at 40 strokes per minute and caught MIT at the wire. Both crews were flagged simultaneously and after several minutes of consultation the judges came to the decision that Wisconsin had won by three inches. The time for both crews was 9:45.

JV's crush opposition

The JV crew, in a dual meet with Dartmouth, had little trouble with the Big Green. The Engineers took a twenty stroke start and pushed ahead for a half length lead. The stroke stayed high for the next thirty strokes, and gave the Engineers more than a length. MIT then dropped down to 32 and proceeded to leave the opposition in their wake as they increased their lead to four lengths in the first mile. They finished off the race with a sprint at 40 strokes per minute to bury their opponents by 27 seconds. Winning time was 9:57.

Third Varsity wins

The MIT third varsity eight controlled their race for the last mile and a half. Dartmouth was able to hold Tech to a negligible lead during the start. At the quarter-mile-gone mark, however,

Tech took the stroke down to a driving 31 and pulled away from the Green. In spite of gallant attempts by Dartmouth, Tech had more than a length lead at the halfway mark. Tech increased its lead during the last mile, and a good sprint gave Tech more than a two length victory over Dartmouth.

Frosh crews lose

The MIT first freshmen put on a good show for the first mile of their two miler. The Engineers and Dartmouth ran neck and neck, both crews stroking at 32. Dartmouth, rowing a sounder stroke, began to pull ahead of the tiring Tech oarsmen at the mile mark, and defeated the MIT yearlings by 7 seconds, with a time of 10:08.

The second frosh were outrowed by a smoother Dartmouth bunch. MIT, overstroking Dartmouth by one stroke, was able to stay within a length of the Big Green until the sprint. A strong Dartmouth finish gave the Green a two boatlength win, with a flag time of 10:20 to MIT's 10:27.

On Deck

Wednesday, May 15
Golf—Springfield, WPI, Home, 1:00 pm
Andover (F), Away, 2:30 pm
Lacrosse—Tabor Academy (F), Away, 3:00 pm
Friday, May 17
Tennis—New England at Dartmouth (Continued to Saturday)
Saturday, May 18
Heavyweight Crew (Lights and Heavies)—EARC at Worcester Golf—Exeter (F), Away, 1:00 pm
Sailing—Monotype Championships at MIT (continued Sunday)
Track (V&F)—Easterns at Central Connecticut
Saturday, May 25
Track (V&F)—New England at Bowdoin
Saturday, June 15
Heavyweight Crew—IRA at Syracuse

Netmen outscore Amherst, get set for NE tournament

Tech's netmen scored a decisive 7-2 victory over Amherst last Wednesday. Saturday's match with Trinity was cancelled. With only one more match remaining before the New England, the team's record is ten wins against five defeats.

Against the Lord Jeffs, Bent Aasnaes '64, Bob Blumberg '64, and Mike Long '65 scored easy singles victories. At number four Terry Chatwin '63 needed three sets to put away Amherst's Bob Guthrie 6-3, 6-8, 6-4. At two Jack Moter '64 lost to Ken Cousens 10-8, 6-3 and Marty Ormond '64 was defeated by Tom Poor 1-6, 7-5, 6-1.



Bent Aasnaes makes backhand return in Saturday's match with Amherst; MIT took the match 7-2. —Photo by Steve Teicher

The Techmen dominated the doubles play as Aasnaes and Moter defeated Cousens and Jack Levine 6-2, 6-1. Chatwin and Blumberg crushed Poor and Guthrie 6-4, 6-1, while Long and Bill Petrick '65 edged J. R. Williams and Bill Jacoby 6-4, 7-5.

Aasnaes, Moter, Ormond, Chatwin and Blumberg will represent M.I.T. at the New England which are slated for May 17, 18, and 19 at Dartmouth.

Trackmen top Brandeis 85-41, despite cold weather

In near-freezing temperatures, the MIT track and field team crushed the Brandeis varsity in a dual meet held at Brandeis last Saturday. Tech, fresh from a third place finish in the Greater Boston Championships, seized the lead after five events and pulled away to an 85-41 triumph.

Terry Dorschner '65, and Jim Flink '64, collecting two first places apiece, led the trackmen to a narrow victory in that seg-

ment of the competition. Flink swept to victory in the 100 and 220-yard dashes, while Dorschner won the 220-yard low hurdles and edged Al Tervalon '65, in the 120 yard high hurdles. Tom Goldard '63, took second in the mile run, and Roger Butler '65, Dick McMillin '65 and Chuck Sigwart '64 teamed to sweep the two mile.

The field men showed a more definite superiority over their Brandeis counterparts by piling up a 46-8 advantage. Mike Keeh-

ner '65, vaulted 11'6" to win the pole vault, finishing ahead of John Shaner '64, and Ken Morash '65, who tied for second. The hammer throw was swept by Jerry Dassel '64, Jim Kotanchik '64, and Tom Callahan '65. The shot put and discus were won by Kim Sloat '65, and Bil Eagleson '64 captured first in the javelin and finished second to Sloat in the shot. A 21' leap by Dave Carrier '65, won the broad jump, with Roger Hinrichs '63 taking second.

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