

## Productivity up, too

### Continuing arms race menaces security--Wiesner

By Allan Green  
and Jason Fane

"It is impossible to protect our nation from massive destruction; and each year the potential amount of the damage grows greater."

Commenting on an article he had written for Scientific American, Dr. Jerome B. Wiesner, Dean of the School of Science and former science advisor to President Kennedy, added: "Even if we would outspend the Soviet Union ten to one in military development, they would still be able to do us great harm."

#### Arms race

The article, written jointly with Dr. Herbert York of the University of California, asserted: "If the great powers continue to look for solutions (to the arms race) in the area of science and technology only, the result will be to worsen the situation. The clearly predictable course of the arms race is a steady open spiral downward into oblivion."

In discussing these statements, Dr. Wiesner pointed out the basic problem is that "offensive power is outrunning defensive capability." For this reason, he feels that ever since World War II, "the national security of the U.S. has been rapidly and inexorably diminishing."

Dr. Wiesner continued by saying that the rationality of the actions of the Soviet Union reflect their awareness of the problems caused by continued arms development; however, he believes that "the problem of keeping Red China in the fold in one of the factors that constrains Russia's

ability to act more intelligently."

With a shift of scientific development from military applications, Dean Wiesner sees technology and research moving into the realm of social and welfare problems. "The country's population is going to double in the next thirty-five

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### Tobin gets new post

Mr. David J. Tobin has been appointed Institute Secretary for Foundations.

V. A. Fulmer, Vice President and Secretary of the Institute announced the appointment last week and described it as follows:—

"This newly established post is organized within the Office of the Vice President and Secretary to serve as a focal point in the MIT Administration for more effective liaison with the foundation field broadly.

"As Institute Secretary for Foundations, Mr. Tobin will have the prime responsibility for planning and soliciting gifts and grants from foundations, and for providing support to the senior officers of MIT to faculty of the Institute when appropriate. In addition, he will participate in the over-all development program of MIT through membership in the Development Council."

Mr. Tobin, of Belmont, received his S.M. degree in Chemical Engineering from MIT in 1946. Recently, he has served as Vice President and Secretary of General Vacuum Corporation.

## Samuels in Washington

### UAP dines with President Johnson

Commenting on his evening spent at the White House, Bill Samuels '65, Undergraduate Association President, said that it was a "fantastic experience."

Samuels was invited by President and Mrs. Johnson to the White House reception for more than 230 college leaders from

across the country.

In welcoming the students, President Johnson termed the affair as a nonpolitical gathering. He added:

"I can't ask you to cast your first vote for the Democrats and I absolutely refuse to misguide you in any other direction."

President Johnson announced that a program of White House Fellows is currently under consideration. As planned, the Fellows would be a group of 15 professional people between the ages of 23 and 35 who have completed military and educational commitments. The appointments would be for terms of 15 months. During the period in Washington, the Fellows would work with the President and the various cabinet members and present weekly seminars.

Speaking on another topic, Johnson expressed the belief that there is more freedom in other countries than when he was a young man. He also said that he believes that America and the world have gained—not lost—freedom in this century.

In addition to the President, the students also heard speeches by various cabinet members. Secretary of State, Dean Rusk, Secretary of Defense Robert McNamara, and Secretary of Labor, Willard Wirtz all spoke on topics related to their cabinet positions.

After the speeches, the students passed through a receiving line to meet President and Mrs. Johnson and their daughter, Lynda Bird. Lynda Bird then escorted the group to a buffet supper in the State Dining Room.

Samuels stated that the supper

hour was one of the highlights of the evening. He had the opportunity to talk with the Johnson family and the various cabinet members who had spoken earlier in the evening. Samuels also spent a few minutes with President Johnson discussing various topics including the election campaign.

At the suggestion of Secretary of State Rusk, bulletin boards were available in the foyer showing the latest football scores for the benefit of the students.

After the supper, the group moved on to the East Room, where Lynda Bird introduced the entertainment to close out the evening. The Chad Mitchell Trio, comedian Bob Newhart, and the Stan Getz Quartet performed from a temporary stage set up for the affair.

Samuels noted that the atmosphere for the entire evening was very informal. However, he added that as he "walked out of the main gate, never to be back in again," the evening had been the high point of his MIT life.

The Boston Council, a group composed of heads of student government from various colleges in the Boston area, was well represented in Washington. Student leaders were present from Northeastern, Harvard, Wellesley, Boston College, Tufts, Boston University, Brandeis, Wheaton, Jackson, and Newton College of the Sacred Heart.

Samuels credited the Boston Council meetings as a great aid for his trip. He said that knowing ten leaders from the Boston area was quite helpful in meeting leaders from other parts of the country.

### Assets increased over \$13.5 million during last year

Construction during the last academic year added over 13.5 million dollars to the value of MIT's physical plant. The total value of Tech's campus is now over 72.9 million dollars according to the 1964 Treasurer's Report just published.

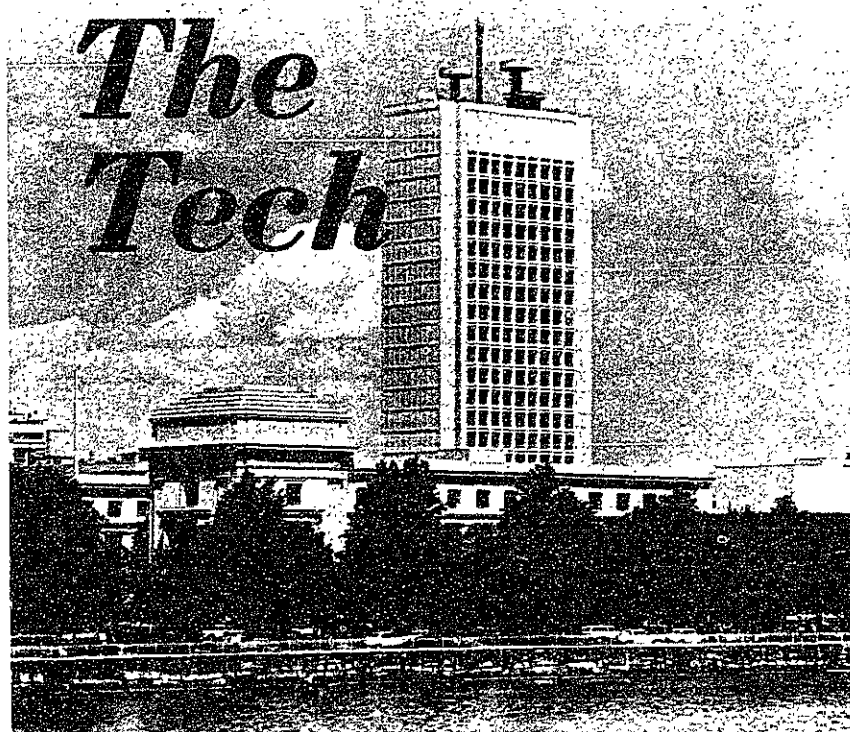
Operational expenses for the Institute last year were listed as: educational and general expenses, \$32.0 million, expenses of general departmental research, \$32.3 million; and expenses of major laboratories and special research, \$84.8 million.

On the other hand over \$20.2 million in gifts were presented to Tech in 1963-64. These were added to a balance sheet which listed the total endowment at \$83.9 million, expendable and building funds at \$55.1 million, and other funds at \$34.9 million. This gave the Institute total funds of over 173.9 million dollars.

Among the investments listed at their market value on June 30, 1964 were: \$82.1 million in bonds; \$35.5 million in stocks; \$13.9 million real estate; \$4.4 million in commercial paper; \$15.2 million in special interest bank accounts; and \$12.9 million in special investments. Also listed under investments was \$4,957,000 in student notes receivable. MIT's total invested funds exceeded 168 million dollars.

A breakdown of investments showed that Tech holds \$38.9 million in U.S. government bonds, and at least one million dollars worth of stock (book value) in General Motors Corporation, Christiana Securities Co., Texas Instruments, Inc., I.B.M., and Standard Oil of New Jersey. The Institute holds over a half million dollars in stocks of nine additional corporations, and at least a quarter million dollars in stocks of 30 more companies.

Students contributed \$6.2 million in tuition to the institute in addition to \$3.4 million in scholarships and loans which also went to cover fees. Dorm rentals and dining facilities netted \$2.6 million.



Vol. 84, No. 18 Cambridge, Mass., Wednesday, Oct. 7, 1964 5c

## Scholarships provided

### New ROTC bill becomes law

A bill, authorizing a new Reserve Officers Training Corps program was signed into law Monday by President Lyndon B. Johnson.

The new law provides for two concurrent ROTC programs, one for two years, one for four. Those in the four-year program would receive free tuition, books, laboratory fees, and similar charges. Added to this would be \$50 a month for 10 months of each academic year.

Those in the two-year program, would first have to successfully complete a six-to-eight-week training program during the summer after their sophomore year. They would not receive scholarship aid, but would receive a minimum of \$40 and a maximum of \$50 monthly pay. This compares with the \$27 per month for people in Senior ROTC.

The effects of the new bill on ROTC at MIT will be varied. Most settled in procedure and changes to be instituted is the Air Force. First to receive scholarships, stated Major Jack D. Alexander, Commanding Officer, will be those who are in the program this year. This year's juniors, he stated, will be the first to benefit from the law, since scholarship aid will probably begin with next year's seniors and be given to as many as funds will allow. This may mean that

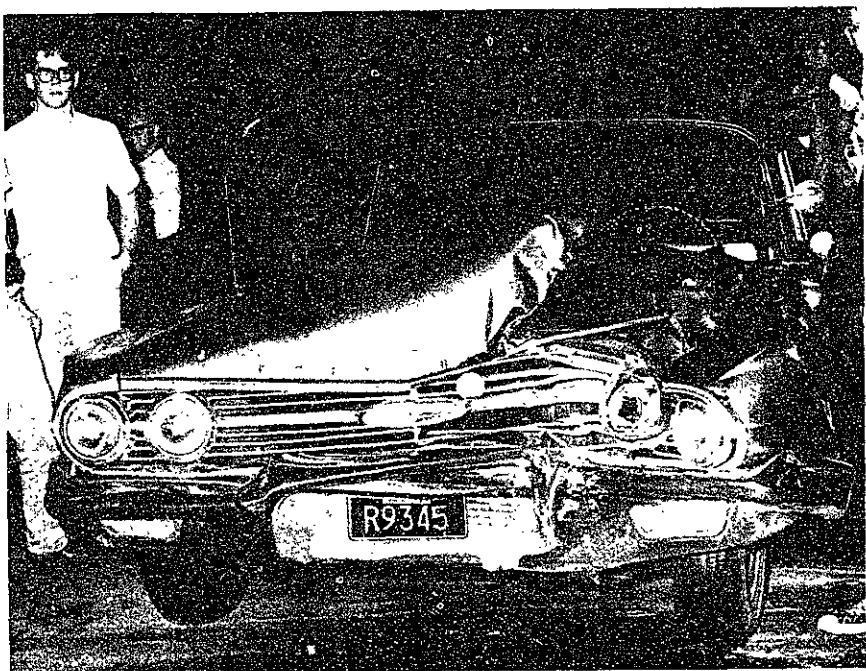
sophomores next year will not receive aid, he said, and that it may take several years to extend the program through all classes.

The Institute must approve of these moves, said Alexander, and as soon as the information is released by the Department of Defense, the Air Science Department will present these proposals to the faculty and administration.

The effect these proposals will have on the Army is not yet certain, according to Colonel James W. Gilland, Head of the Department.

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## October crash of the week



Massachusetts motorists strike again! Techmen view results of Bay State driving at the corner of Ames St. and Memorial Drive late Sunday.

## Conference had four main topics

The International Conference on the Earth Sciences, given at Kresge Auditorium Wednesday, Thursday, and Friday of last week, was attended by several hundred specialists in the six fields represented.

The conference was held on the occasion of the dedication of the Cecil and Ida Green Building, which will house the new Center for the Earth Sciences.

The conference itself was divided into five sessions on four topics. Wednesday morning's session, following a welcome by President Julius A. Stratton, covered "The Earth's Environment." Talks on various aspects of this field were followed by questions from the audience.

Wednesday afternoon was devoted to "Atmospheric Motions." Two talks related to atmospheric circulation on large and small scales, and to turbulence.

Thursday morning the Conference turned to "Dynamics of the Oceans." Ocean circulation, waves and long-period phenomena were the areas covered.

The final two sessions were de-

voted to "The Solid Earth." Topics included seismology, the upper mantle, and internal motions of the earth.

At Thursday evening's banquet Dr. Lloyd V. Berkner, President of the Graduate Research Center of the Southwest, discussed "Man and his Planet — Earth."

Concluding the conference on Friday afternoon was the dedication of the Green Building. Attending were many members of the conference, the Greens, the mayor of Dallas, Texas, the Green's home city, and Massachusetts Governor Endicott Peabody.

## Junior Prom to start with October 5 formal

Hank Perritt, Chairman of the Class of 1966 Junior Prom Committee, announced plans for this year's Junior Prom, Monday, October 5.

Similar to Proms in the past, the weekend will start with a formal dance on Friday night at the Statler Hilton Hotel. Saturday morning will be Field Day, annual competition between sophomores and freshmen, followed on Saturday afternoon by a concert in Kresge Auditorium. The finale will be a Rock and Roll blast in the Armory.

The Committee reports that the entertainment is tops throughout the weekend and will be announced on October 14.

Ticket sales will begin on Monday, October 19 for block sales to living group social chairmen. Tuesday, October 20, sales will begin to individuals.

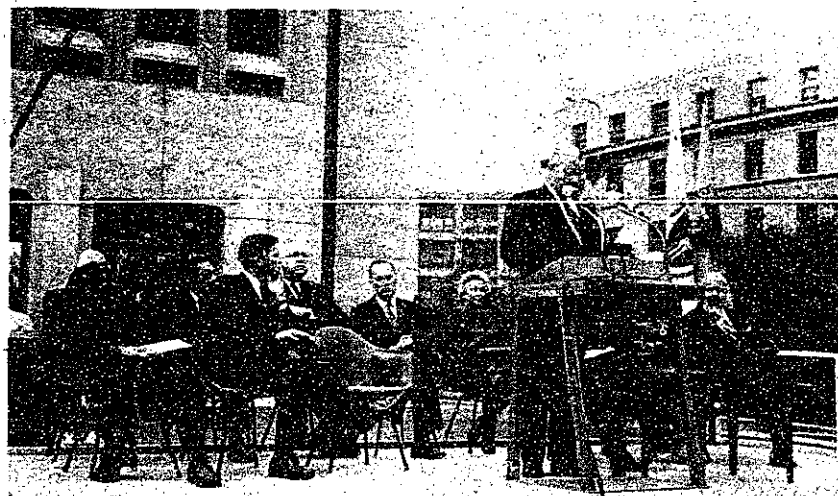
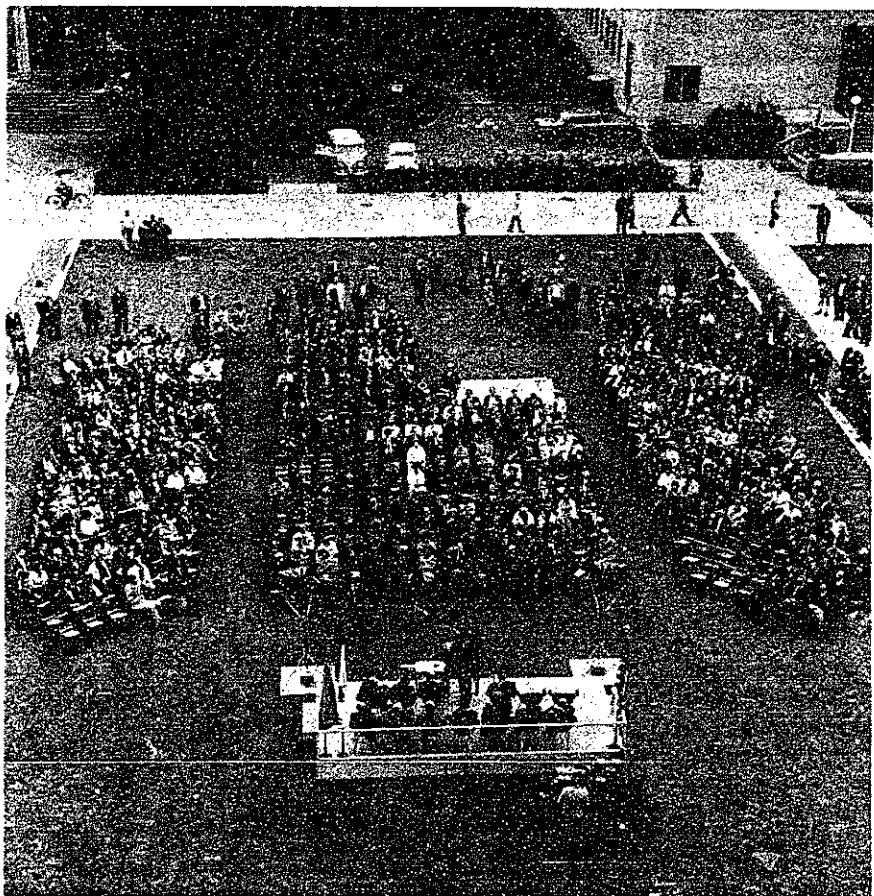
Junior registration cards are required to purchase tickets.

For more complete coverage of the International Conference on the Earth Science, see pages 2, 12, and 13.

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# Dedication ends Earth Science Conference



Photos by James DeRemar

At left is the scene on the lawn in front of the Green Center for the Earth Sciences as Dedication Ceremonies proceed. In the center, President Julius A. Stratton accepts key to the state of Texas from Cecil Green, who provided the funds for the building. At right, Chairman James R. Killian speaks as others on the platform look on.

Dedication exercises for the Cecil and Ida Green Building were held Friday, October 2 on the South Plaza of the Green Building.

Introductions were given by James R. Killian, Jr., Chairman of the Corporation. Cecil H. Green presented the Texas size gilt key to his "tall Texas outpost in Cambridge" to President Julius A. Stratton. Henry G. Houghton, Head of the Department of Meteorology, and Robert R. Shrock, Head of the Department of Geology and Geophysics, accepted for their departments.

The main address was given by Roger Revelle, Director of the Scripps Institution of Oceanography and new Richard Saltonstall Professor at Harvard.

Also on the podium were Governor Peabody, Mayor Crane of Cambridge, Mrs. Ida Green, and I. M. Pei, architect for the building.

In presenting his "investment in education" to MIT, Green emphasized the interdepartmental unity that the building represents. Placed close to the departments of mathematics, engineering, and biological sciences, where "nearness will promote more interdisciplinary unity," the building itself houses several departments. A feature Green especially likes is the height, enough to "put the Meteorology Department in the skies."

To the accompaniment of East Campus noisemakers, Green extolled the "harmony of beauty and usefulness" of his "bridge on end."

President Stratton, in his acceptance speech, talked of the building as the culmination of precedent. The first MIT buildings were built at Copley Square on mud just dredged up from the Charles River. "In 1910, when the Institute decided to move into Cambridge," he continued, "it was with confidence in soil technology advances that they built on pre-galatial silt, fishbones and mud." The new Green Building, he said, is proof of that confidence.

As if in reply to Stratton's admission that the Institute had not long ago considered dissolving the earth science departments in favor of expansion in other areas, Roger Revelle described the importance the earth sciences are beginning to have in sociology and economics. He described the Green Building as a "great modern university's contribution to the Earth Sciences."

## Wife shares interest

### Green interested in education

Cecil Howard Green was born in Manchester, England. His parents moved to Vancouver, British Columbia, where he completed two years at the University of British Columbia before transferring to MIT.

After receiving a bachelor's degree in electrical engineering, Green worked at the General Electric Company at Schenectady while getting his master's in Course VI-A.

He worked for the Raytheon Manufacturing Company in Cambridge and the Federal Telegraph Company Laboratories in Palo Alto, California before, in 1930, joining Geophysical Service Incorporated, of Dallas, Texas.

Working for a company formed to provide geophysical exploration service to the petroleum industry developed his interest in the earth sciences. Beginning as a Party Chief, he moved up to President and is now Honorary Chairman of the Board.

Meanwhile, he participated in the organization and management of Texas Instruments Incorporated, a manufacturer of electronic devices.

Interest in education has brought the Greens in contact with many educational institutions. Green helped organize the Graduate Research Center of the Southwest and has made several contributions to St. Mark's School of Dallas, a private prep school.

He has served on visiting committees of Stanford University and the University of Toronto. Since 1958 he has been a member of the MIT Corporation.

The Colorado School of Mines' (Please turn to Page 11)

## Green building opens

The fruition of a \$6 million gift to MIT's Second Century Fund by Mr. and Mrs. Cecil H. Green of Dallas, Texas, came Friday, October 2. The dedication ceremony climaxing the International Conference on the Earth Sciences was the official opening of the tall, slender concrete tower that is to house MIT's facilities for research and teaching in the earth sciences.

The first building completed under the Second Century Fund, the Green Building was designed by architects I. M. Pei and Associates of New York City. Two hundred twenty-seven feet high, it stands as the tallest building in Cambridge, and is part of the new scale of buildings now emerging on the Boston and Cambridge banks of the Charles.

The height of the roof provides an excellent research laboratory for the many activities going on below. Radar Platforms, a weather tower, a balloon shed, and a large plastic dome sheltering experimental radar equipment highlight the tall building.

Built in a fashion uncommon to most tall buildings, the Green Building sports no skeleton of steel girders. The poured-in-place exposed concrete epitomizes the intentions of the designers in expressing "a design of precise order molded in concrete."

The flexible nature of the building is reflected in the interchangeability of various laboratory and classroom space, and the functional use of the auditorium and library.

Shown below is a diagram of the new Center, with floor allocations shown.



## Atmosphere title of second group

'Atmospheric Motions' was the topic of the talks at the September 30 afternoon session of the International Conference on the Earth Sciences.

Dr. Robert M. White, Chief of the United States Weather Bureau, was chairman of the session, and Dr. Henry G. Houghton, Head of the Department of Meteorology, was Co-Chairman.

Dr. Edward N. Lorenz, Professor of Meteorology, gave the first lecture on 'Large-Scale Motions of the Atmosphere: Circulation.' He was followed by Dr. Arnt Eliassen, Professor of Geophysics at the Institute for Theoretical Meteorology of the University of Oslo, who talked on 'Motions of Intermediate Scale: Fronts and Cyclones.'

Dr. Aleksandr M. Oboukhov, Chairman of the Institute of Atmospheric Physics of the Academy of Sciences of the U.S.S.R., who was to speak on 'Atmospheric Turbulence,' did not appear. He was replaced by Dr. William

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## 'The Earth's Environment'

### Solar system discussed

'The Earth's Environment' was the Wednesday morning conference topic. Chairmen were Dr. Bengt G. D. Stroemgren, Professor of Astrophysics at the Institute for Advanced Study at Princeton, and Dr. John V. Harrington, Director of MIT's Center for Space Research.

Speaking on "The Sun and Solar Physics," Dr. Leo Goldberg told the assembled scientists that the long-range goal of solar physics was "to construct a model of the sun that agrees with observation and is based on the known law of physics." He expressed surprise that the field has come as far as it has, "although . . . it is not very far at all."

There are two reasons, said Goldberg, Higgins Professor of Astronomy at Harvard University, why the solar atmosphere seems to have eluded theoretical understanding. One is "that we are too prone to human error in predicting the consequences of physical laws." The second is that we do not yet understand the dynamics of plasmas, especially in magnetic fields.



President Julius A. Stratton

The sun, he said, is such a big, bright, spectacular object that it is not always easy to resist the temptation to make observations not particularly related to the solution of fundamental problems.

Dr. Gerald Kuiper, Professor of Astronomy and Director of the University of Arizona's Lunar and Planetary Laboratory, next spoke on 'The Moon and Planets and their Origins.' During this talk, films of the Ranger moon shot

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## Earth Science Conference

### Thursday morn's earth science conference group discussed ocean circulation, wave spectrum

Thursday morning's session was devoted to 'Dynamics of the Oceans.' Chairman of the session was Dr. W. Maurice Ewing, Professor of Geology and Director of the Lamont Geological Observatory at Columbia University. Co-Chairman was Dr. Columbus O'D. Iselin, Henry Bryant Bigelow, Oceanographer at Woods Hole Oceanographic Institution; Professor of Physical Oceanography at Harvard University; and Professor of Oceanography at the Institute.

Speaking first was Dr. Gustav Arrhenius, Professor of Marine Geology and Head of the Department of Earth Sciences of the University of California at San Diego. His topic was 'Long-Period Phenomena of the Oceans Revealed by Chemistry.'

Following Dr. Arrhenius was Professor Henry M. Stommel, Professor of Oceanography at the

(Please turn to page 13)

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*College Hall***Mad killer uses MIT student's car  
in recent Andover murder-robbery**

Police determined last week that an automobile stolen from MIT grad student Henry A. Morgan, was the vehicle used by the murderer of a gas station attendant in Andover on September 30.

It is possible that weapons and ammunition that Morgan, a Naval Lieutenant, kept in the car were used in the brutal slaying. The guns were missing when the auto was found abandoned on the grounds of the Andover Academy.

The killer, who stole the vehicle earlier in the day from an MIT parking lot, pumped six bullets into the body of station attendant Irvin Hilton, who was pleading for his life. The killer then tried to attack two witnesses to the crime.

When contacted by The Tech, Morgan's comment was: "No comment."

The Andover Police also refused comment pending action by the office of the District Attorney.

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**Bull Moose Club meeting  
hosts Levin H. Campbell**

The MIT Bull Moose Club will hold a meeting on Thursday, October 8, from 7:30 to 9:00 pm in Room 2-136.

Levin H. Campbell, candidate for the Massachusetts State Senate from Cambridge, will be a guest.

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**150-foot sphere****MIT has world's largest radome**

By George Russell

The world's largest radome, a 150 foot high spherical antenna shelter, will be dedicated this Thursday at Lincoln Laboratory's Haystack Hill facility.

It will house a precision, 120-foot-wide radar antenna, designed to develop large ground-based radio equipment necessary for operation of satellite-relay systems in round-the-world communications.

The radome was designed by Lincoln Laboratory and was constructed by the H. I. Thompson Fiber Glass Company for the Air Force Systems Command. It is made of one and one-half acres of delicate fiberglass triangles, measuring up to 15 feet on a side. Each triangle is only 30 thousandths of an inch thick or about the thickness of six sheets of writing paper; the structure is expected to withstand 130 mph winds.

Since the radome was built without scaffolding, workers stood on 70 foot "arms" suspended from an oil well drilling tower.

The sensitive radar system will be a powerful tool in satellite communications, space surveillance, and inter-planetary radar astronomy. It is expected to be

able to track a "stationary" communications satellite in a 24-hour equatorial orbit 22,000 miles above the earth. It will extend our inter-planetary radar capacity beyond Venus to Mars, Mercury, and Jupiter.

The very high intensity radar beam has a divergence of one-twentieth of one degree.

The entire research facility construction cost was estimated at \$3,800,000.

**Annual dinner marks****Air Force founding**

The Department of Air Science held their Annual Dining-In at the Faculty Club on September 28 honoring the 17th anniversary of the founding of the United States Air Force.

It was attended by over 100 members of the MIT Air Force ROTC Cadet Corps, Air Force Institute of Technology officers attending graduate school at MIT, and distinguished guests.

Major General Samuel C. Phillips, Deputy Director of the United States Apollo Lunar Landing Program, was the speaker for the evening.

**Need for student volunteers aired  
for Boston State Mental Hospital**

Under the direction of William Roesler and Kim Collins, the TCA Volunteer Mental Hospital Program for 1964-1965 is being organized in the next few weeks. As a part of the program, students are being asked to volunteer to travel to the Boston State Mental Hospital to work with the patients.

With only thirty nurses for 2,300 patients, the hospital has a great need for helpers to keep the patients occupied. Many of the inmates are in the hospital for life, and the student visits are their only contact with normal existence.

Roesler commented that in the past, it was found that beside benefitting from the social experience, the volunteers welcomed the opportunity to leave the academic atmosphere of the Institute. The trips gave them a chance to participate in an activity which supplemented their academic experience.

He emphasized that the program can use as many volunteers as possible, both from the dormitories and the fraternities, and that no previous experience is necessary to participate.

Those people who would like further information may leave their names with Miss Dorothy Reed at the TCA Office, Walker Memorial.

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# Mock election—no financial support for politics

The approaching October 27 mock election, to be administered by the Secretariat, promises to provoke a vigorous and noisy campaign from the many political groups on campus. (For statements by both contending sides, see page 6.). Efforts of these groups, the Public Relations Committee, and the Secretariat toward publicity and campaigning should prove useful and informative for both voters and the organizers and political workers. We urge all students to conscientiously make a decision and vote; a large turnout is necessary to make the results truly representative of student opinion.

There has been some reaction to the recent veto by the Finance Board of a plan to allow Secretariat to give equal sums of money to the active campaigning groups for "campaign expenses." Presumably this subsidy would have financed posters, buttons, literature, and so forth—although there was at one time a suggestion that the groups not be held to account for their use of these funds.

Certainly an organized, energetic campaign will be beneficial to all con-

cerned; but the Finance Board has, as a point of policy, resolved against the direct subsidy of political groups, for several reasons. Finboard money comes ultimately from the Institute's general educational funds, that is, tuition and endowment income. Besides violating valuable precedent, the board could conceivably endanger its tax-free status if these funds were considered "political" in the legal sense. Finally, the decision will force the various groups to face the political reality of campaigning for operating funds as well as for votes.

This general policy is wise; the purposes of student activities are primarily to improve student conditions and arouse campus action and school spirit. There are other organizations in much more need of financial assistance; there are also campus causes and activities more in need of active participation.

## Student employment

Student help wanted posters are becoming a common scene on the Institute bulletin boards. It appears that each year more jobs are available with fewer students to fill the positions.

Last year, the Student Personnel Office had openings available for most of the year. This year the problem is even more acute. Many of the student service staffs are in desperate need of students that would like to work five, eight, or even ten hours per week.

It is frequently assumed that there will be many students interested in earning some money while attending school. This theory is rapidly growing out of date. Every year, the amount of scholarship aid, and other forms of financial assistance increases.

In addition, many national magazines and guidance counselors inform the student and his parents that the first year requires considerable adjustment to college life. Some go beyond the general warning and specifically recommend that the new student not even consider work in the first semester or the entire first year.

Since many of the departments and service staffs are dependent upon students in order to function the adverse publicity and increase in financial assistance does not help operating efficiency in the least. The Dining Staffs, in particular, require a large number of students. After the normal rate of attrition, a nucleus of trained students are available to assume the student managerial positions and to train the students in the following years. This year, there is a lack of students interested in working on the Dining Staffs.

While it may be possible to manage to operate at a reduced level this year, and maybe even next year, the real question is what will happen two, three or even five years into the future.

We feel that the entire question of student employment opportunities deserve renewed attention. For the groups that depend upon working students, the problem is immediate. It is likely that conditions will become worse before corrective action can be applied. Those students that are only marginally interested in working will probably quit before exerting the extra effort required to achieve previous levels of performance.

## Resignation

The Board of Directors of The Tech has accepted the resignation of Ronald D. Frashure '64 as Editor.

## Campus Topics

### Student Opportunities Comm. searches for summer jobs

by Perry Seal

Probably your first contact with Student Opportunities Committee, at least directly, was through the information sheet included in all returning students registration material. However, behind the scenes, this relatively newly-developed student committee has been working to secure greater opportunities for all MIT students in many areas.

Student Opportunities Committee grew out of the desire by many students for more and better summer jobs. Through cooperation with the Student Placement Office and its director, Mr. Thomas W. Harrington, last year a letter was sent to some 200 companies stressing the benefits which all

our students (underclassmen included) have to offer—both during the summer and later due to summer experience. In short, the results were tremendous and the many job opportunities were filled at the Student Placement Office. This year's program is already underway and is being expanded.

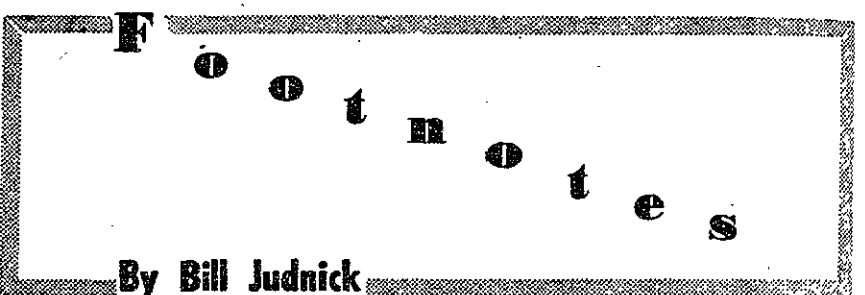
We have since branched out into several other areas co-ordinating our ideas (as students) with those of the administration and developing new ideas and projects both creating new opportunities and publicizing all opportunities so more students can take advantage of them.

Our permanent job sub-committee is now doing a great deal of work reorganizing the vast amounts of material available to graduation seniors and graduate

(Please turn to page 6)



Office and its director, Mr. Thomas W. Harrington, last year a letter was sent to some 200 companies stressing the benefits which all



Two of this week's predictions will be of especial interest to computer cognoscenti:

### The Crystal Ball

6. It looks like IBM won't be the only computer manufacturer to be represented at Tech Square when their present agreement runs out. Three years from now they'll be programming on a GE or RCA machine.

7. The synchrotron research lab in the basement of Building 24 will have a machine in IBM's 7040 series installed soon.

The upcoming student mock elections are making enough headlines to warrant some comment:

8. First of all, student apathy. I predict that no more than 45% of the entire undergraduate body will respond at the polls.

9. Second, the results. Among students, Johnson will gather at least 65%; the faculty will be voting the same line, but at a more heavy 80%, plus-or-minus 5%.

10. The belt highway originally proposed for Cambridge

via Memorial Drive will probably undergo a drastic revision of route. I wonder why?

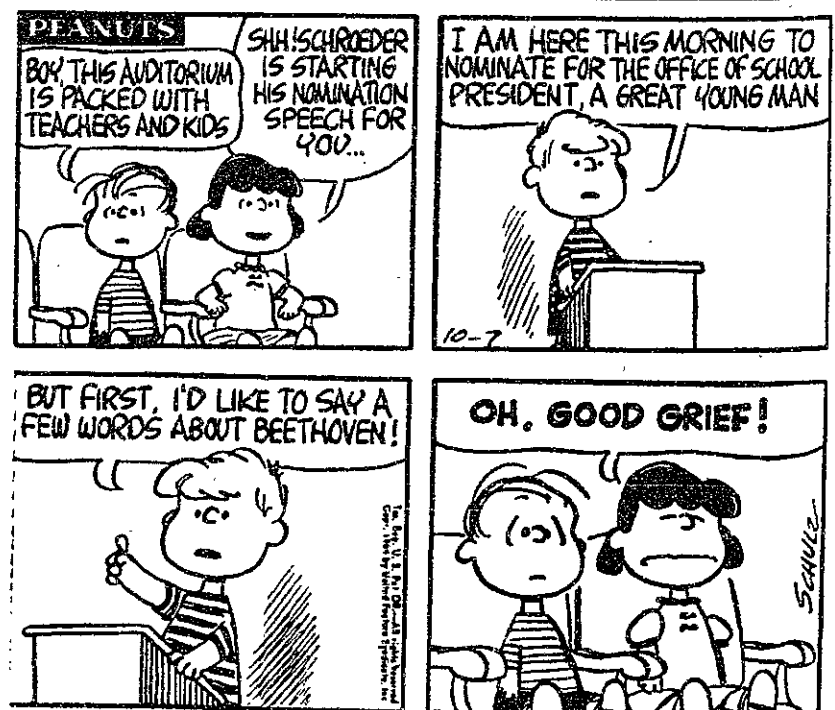
### The Extended Hand

While you're still in a wondering mood, did you ever wonder how MIT goes about soliciting its alumni and alumnae for substantial contributions? Most of us will not be exposed for several years; but here's some inkling of how they'll do it, based on their Second Century Fund procedures:

First, the map of the United States is divided into "regions" and "districts." Each district has a "director" of considerable prominence.

The campaign was divided into two portions: "Special Gifts" and a cryptic "Phase II." Going after the big money first, the district directors were told not to proceed until at least 60% of the area quota had been accrued in the "major gift phase."

Other stages of the solicitations — "indoctrination meetings," "screening results on Special Gifts (D and D-plus), etc.— will be detailed next week.



PEANUTS appears daily and Sunday in the Boston Herald.



Vol. LXXXIV No. 18 Oct. 7, 1964

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Second-class postage paid at Boston, Massachusetts. The Tech is published every Wednesday during the college year, except during college vacations, by The Tech, Room 50-211, 142 Memorial Drive, Cambridge, Massachusetts 02139. Telephone area code 617, 876-5855; 876-5856; 864-6900, Extension 2731.

United States mail subscription rates: \$2.75 for one year, \$4.25 for two years.

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

# Prof. Thomas to speak on calculus to association of math teachers

"Elementary calculus from an advanced point of view" will be the topic of a series of 25 lectures Prof. George B. Thomas will deliver to approximately 60 members of the Association of Advanced Placement Mathematics Teachers (AAPMT) this term. "So that the instructors will know more than what they try to teach their students," said

Prof. Thomas, "the course will be mainly theoretical, with little time spent on the mechanics of actual problem-solving."

Subjects covered in the series will include most of those in 18.01 and 18.02, in addition to some work on limits and continuity. Three lectures about continuity will be based upon the contents of a pamphlet which he completed this summer, and which may eventually be incorporated into the program of 18.02.

The lectures, which are to be presented in Concord Academy, will each be about 1½ hours long and will include open discussion periods. The teachers will also be free to interrupt and ask questions at any time.

Notes from the lectures will be made available to participants in the series and may in fact lead to a book, for Prof. Thomas hopes to "revise and rewrite them to a publishable form."

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3. Chippewa & Wabash? They just filed bankruptcy proceedings.  
Uncle Ed didn't mention that.



4. What's more, the president of the company is reported to be on his way to Brazil.  
How come you know so much about it?



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I thought your field was paleontology.



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# Letters to The Tech

## Headline cited as 'unfair'

To the editor:  
A conspicuous issue in this year's presidential campaign is the alleged "unfairness" of the news media to the Republican nominee. It is with considerable reluctance that I bear this imputation against The Tech, which previously had maintained admirable and conspicuous impartiality.

The article in question appeared in the September 30 issue under the opprobrious headline, "MIT scientists like LBJ." As I am sure you should know from high school journalism, the headline should capsule the principal facts reported by the article—in this case, the formation of a pro-Johnson committee. The headline was improperly then, for it did not reveal the facts reported by the article, but rather a sentiment probably held by the subjects of the article.

A considerably more serious charge, aggravated by the improper headlining, is the gross generalization contained in the headline and text. The fact that a few of MIT's scientists support does not justify the unsupported assertion that this is the preference of the preponderant majority. This assertion was implicit in the headline, not to mention

the article, where you stated that Massachusetts' leading scientists and engineers support LBJ. The article should definitely have made the distinction between the members of this committee and scientists and engineers as a whole. The article mentioned only one man working in an engineering department (Prof. Rosenblith) and only three MIT scientists, hardly a sufficient number of examples to justify the previously mentioned conclusions.

I appeal to you to continue your impartial news analysis and scrupulously prevent such gross generalizations from occurring again.

James J. Foster '67

## Political book sale noted

To the editor:  
I noticed that in the booth of the MIT Students for Goldwater, the book, "A Texan Looks at Lyndon" by J. Evetts Haley, was being sold. This is certainly an appropriate book for the group. The book is very informative, and all right-thinking Americans should read it (after all, better read than dead). It is almost as interesting as an average of 'American Opinion' (the magazine of the John Birch Society). Haley brings out all sorts of "facts" intended to show LBJ as

he really is. But it made rather strange reading for a non-John Bircher like myself. Haley attacks Johnson for much more than supporting the 1964 Civil Rights Bill than he does for his connections with Bobby Baker. The author, besides trying to show that Johnson was involved with Billy Sol Estes, condemns the President for his "humanistic leanings" and for "indicating his faith and hope in the realm of reason," despite "the fact that this nation was founded as a Christian nation."

Haley is especially outraged because the President, a native born Texan, had invited Martin Luther King and other Negro leaders to the White House.

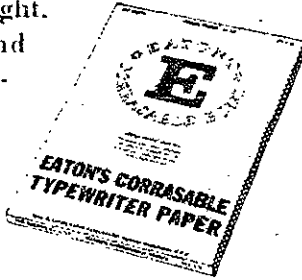
If the Young Democrats or the Scientists and Engineers for Johnson and Humphrey started selling anti-Goldwater books written by Communists, might not there be some concern? But the MIT Students for Goldwater are selling a book by a man who makes Goldwater look like a socialist, a man who is farther to the right than most Birchers.  
Sherman Hanna '68

We all make mistakes...



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## Presidential race

# Mock election spurs debate

### Goldwater

By David F. Nolan

Twenty days from now, there will be a mock presidential election held here at MIT. At that time, each of you will be given the chance to express your preferences—to go on record as supporting either Senator Goldwater and his ideals, or President Johnson and the things he stands for.

Those of us in Senator Goldwater's camp feel that the main issue in this election is the conflict between two philosophies. These are: the philosophy of limited government, represented by Senator Goldwater; and the philosophy which emphasizes collective security through centralization of power, represented by President Johnson.

Obviously, this is a rather broad generalization, and neither of the two men represents either of the two extreme conditions of society—anarchy and communism. The contrast, however, is evident—the choice being offered is between individualism and collectivism, between freedom and compulsion.

At the moment, despite what some people are saying, Goldwaterites are decidedly in a minority at MIT—a large minority, but a minority nonetheless. Active supporters of the Johnson-Humphrey ticket number about 300, a fairly large percentage of whom are faculty and administration; our organization has about 210 members. This ratio of seven-to-five against us is probably a fair indication of our overall strength.

Therefore, it is of the utmost importance that those of you who support Goldwater become active, and do so quickly. If possible, you should join the MITSG; those less dedicated are urged to at least stop by the booth in Building 10 to pick up some free literature and a button.

The first formal meeting of the Goldwater forces will be tomorrow evening at 7:30 in the Bush Room. All MITSG members are urged to attend, and anyone is welcome. At the meeting, campaign plans will be consolidated.

If you can't make the meeting, drop by the booth in Building 10 anytime—you can join up there for only a buck (unlike some political organizations, which charge \$3) or pick up some free material. Contributions are also gratefully accepted.

For now, I urge each of you to keep an open mind, and invite all of you to come and learn our side of the story before making your decision. Those of you who are already on our side—wear your buttons!

### Warship model given to nautical museum

A model of an ancient Korean warship, 'The Turtle,' will be formally presented to the MIT Francis Russell Hart Nautical Museum, in a ceremony on Thursday.

The two-foot-long model of the ship is the work and gift of Chang W. Shin of Seoul, Korea, a teaching assistant in the Department of Naval Architecture.

### Johnson

By Steve Hattman

As members of the scientific and engineering community, MIT students have the right and the obligation to speak out on the issues and candidates in this critical presidential campaign. To those who reject reactionary and dangerously simplified solutions to the complex domestic and foreign problems confronting the nation, we welcome you, Republican, Democrat and Independent alike, to join us in the cause of electing men of reason, ability and responsibility as our spokesmen. Towards realizing this goal, a bi-partisan graduate and undergraduate committee has recently formed the MIT Student Section of Scientists and Engineers for Johnson and Humphrey.

Allied with it in this effort are the MIT Young Democrats and members of the faculty, research and secretarial staffs.

In keeping with the spirit of bipartisanship, one of our first activities was a drive to assist members of the MIT Community in registering to vote. Circulars were distributed and signs posted instructing prospective voters as to where they might register or inquire for further information concerning their eligibility.

We trust that, as a result of our efforts, many of you will be able to and will exercise your right to vote.

Although the MIT Student Section of Scientists and Engineers for Johnson and Humphrey was born one short week ago (as of the time of this writing), it can proudly proclaim a host of supporters larger than any of the previously established political organizations. New members and campaign contributions are being accepted at our booth, in the Lobby of Building 10.

On Thursday evening, October 8, at 8:30 p.m., an Open Meeting for all supporters will be held in Room 10-250. We are pleased to announce that Professor Louis Osborne of the MIT Department of Physics, and Treasurer of the Massachusetts Scientists and Engineers for Johnson and Humphrey, will appear as guest speaker.

The Executive Committee will report on our recent and future activities. In addition, during the coming month we will present a panel of distinguished scientists and educators who will discuss the coming presidential election.

It cannot be overstated that, because the candidates represent such different political and social philosophies, we must not allow the reins of government to be captured by radical groups and unwittingly irresponsible individuals.

The American people are, indeed, offered a clear "choice": i. e. are we going to be seduced into abandoning the policies and principles adopted by both major political parties for an administration of flag-waving extremists and reckless defenders of "freedom," or shall we maintain our present government of proven competence and responsibility?

We ask that you help us to help you elect Lyndon Johnson and Hubert Humphrey!

## Student Opportunities Committee uses registration questionnaire

(Continued from page 4)

students concerning various firms and positions open to them. Also effort is being made to contact the companies directly to obtain specific information concerning MIT in particular and perhaps a short summary to make our study of the material easier.

We are also attacking the foreign student's problem of obtaining worthwhile summer employment here in the United States. This is an area where much can be accomplished both in interesting companies in this untapped potential and convincing foreign students of the great benefits to be gained from experience in American industry.

The gathering of information through registration material is another example of our trying to match the desires of students as nearly as possible with the opportunities available and gathering of suggestions with which perhaps we can follow through. There is no doubt that this information has given us a good basis of general opinion to work from and will increase our effectiveness this coming year.

This committee has been developed for your welfare and to keep abreast of ever-changing and growing opportunities open to the student body. We are certainly eager to hear any suggestions to improve our present programs or ideas as to new areas where we might work. Also we would like to hear any unique and effective ways to make the various

opportunities known to all students.

Student Opportunities Committee will hold its first general meeting Tuesday, October 13, at 7:30 p.m. in the Jackson Room (10-280). There are a few openings on the committee for interested students and this is an excellent opportunity for everyone to present his pet ideas and discuss them over refreshments.

Don't forget! Read the announcements which will be published in The Tech and other media as opportunities are made available. We can find them, but only you can take advantage of them.

## Sigma Alpha Epsilon plans SAElor Dance

Plans for the first open bid party of the school year have been announced by Sigma Alpha Epsilon. The SAE's will open their doors to all MIT students on Saturday, October 24, for the SAElor Dance, their annual campus social event.

The theme of the party will be a pirate ship, the H.M.S. Corsair "Pokinator." Tickets for admission will be a date and pirate costume.

It is reported that "seabreeze" will again be provided in abundance.

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From the Officers or Alumni of M.I.T.

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From Harvard, Class of 1965—JOHN R. TAYLOR, Jr.

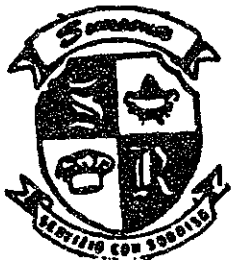
From Harvard, Class of 1966—ARIS SOPHOCLES

From Harvard, Class of 1967—JOHN R. H. VORHIES, Jr.

From M.I.T., Class of 1965—STEPHEN P. LOUTREL

From M.I.T., Class of 1966—MARLAND E. WHITEMAN, Jr.

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## Eastman Kodak grants \$44,000

MIT has received grants totalling \$44,000 from Eastman Kodak under that company's aid to education program for 1964. The Kodak contribution includes an unrestricted grant of \$6,000 and three research grants of \$12,500 each.

Company grants to schools such as MIT are based on the number of graduates from each institution who joined Kodak five years ago.

Tech has received \$55,000 in direct grants since 1955 in addition to over \$112,000 in research grants from Kodak.

## Committee elections for Spring Weekend

Spring Weekend is scheduled for April 24, 1965, this year. A committee for the event will be chosen within the next three weeks. Candidates will probably be reviewed by the Inscomm Executive Committee before the Institute Committee as a whole votes.

Interested students may contact Betty Hendricks in Litchfield Lounge, 50-110.

## Architect to report

# Student Center to be complete in June

By Bill Byrn

Professor Eduardo Catalano, Architect of the Student Center, and members of the Student Center Committee will report and announce activity office assignments at a special meeting of the Association of Student Activities next Tuesday evening, October 13, in the Kolker Room (26-414) at 7:30 p.m.

A Committee newsletter distributed to students reported that construction of the Center is proceeding on schedule towards a target date of mid-June, 1965. This would allow activities and com-

mercial groups to begin moving into the structure during the summer or in early fall.

Telephone connections, electrical outlets, and furniture needs of activities will also be discussed at the ASA meeting. Dick Schmalensee '65, chairman of the Committee, stated that only if all concerned activities were represented at the meeting could a fair appraisal of these needs be obtained by the Committee.

Members of the Committee will represent MIT at the New England convention of the Association of College Unions, to be held October 16 and 17 at the University of Bridgeport. Systems of student government that have been successfully used by other schools in operation of student centers will be studied.

Future work of the Committee is to be directed toward publicity, organization of a plan for government of the Center in cooperation with the Institute Committee, and final allocation and distribution of furniture and equipment to the activity offices on the fourth floor. Recently announced or confirm-

ed facilities in the Center include:

Five pool tables and eight lanes of tenpin bowling in the basement; a U.S. Post Office (Technology Substation); a greatly expanded Technology Store with 20,000 square feet of floor area; a pharmacy; six music practice rooms; a 15,000 reserve book reading room on the fifth floor, duplicating current facilities in the Science Library and Reserve Book Room; and a foreign periodicals browsing library.

It is reported that the Institute has expressed interest in maintaining 24-hour operation of this library if demand is sufficient.

The entire building has central heating and air conditioning. There is a piped music system for the dining rooms and for the rathekeller college restaurant.

## New ROTC bill has scholarships

(Continued from Page 1)

ment. The Army has not planned quite as thoroughly as the Air Force, he stated, because of the changes wrought in the bill by Congress, and has adopted a "wait-and-see" attitude. Of perhaps more importance, he said, will be the results of studies currently going on relating to the content of the Army ROTC curriculum.

As a personal recommendation, Gilland stated, he would suggest that the Army ROTC department adopt both the two- and four-year plans concurrently. Whether the scholarship program is instituted or not, he stated, depends on whether the Institute accepts the program.

The Navy ROTC program would not be significantly altered, according to Capt. Harry M. Pugh, since the Navy Dept. already has a program similar to the one in the new bill. Called the Holloway program, it is not used at MIT. MIT's program, according to Pugh, is unique in all Naval ROTC programs in that sophomores and juniors spend only one hour a week in class, and thus have only about half as much instruction time as students in other schools' programs.

Freshmen who wish to benefit from the bill may still join the ROTC program, according to all three department heads. The scholarship programs will go into effect completely next September.

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# October entertainment in Boston to offer more variety, better quality

The next month in Boston promises to be a good one for the entertainment-seeking student. Among the coming theatre attractions are a new musical, 'Bajour,' starring Chita Rivera, and the hit French revue, 'Zizi,'

starring Zizi Jeanmarie. The Hotel Bostonian Playhouse will open its season October 15 with plays by Pinter and Saroyan.

Music in October includes performances at the Back Bay Theatre by Pete Seeger on the 9th and Ray Charles on the 31st. The George Shearing Quintet and the Serendipity Singers will be at the BU gym the 13th.

Movie quality is on the upswing in October; highlights will be 'My Fair Lady' the 28th and 'Mary Poppins' the 22. Cinema's 'Mediterranean Holiday' will open the 27th. New this week are 'The Girl with the Green Eyes' and the French hit 'Cartouche,' plus the Kennedy documentary, 'Four Days in November.' Several of these require advance reservations.

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## movies...

## Chevalier in carbon-copy comedy

'I'd Rather Be Rich,' at the Keith Memorial, is another of Hollywood's masterpieces of originality. The stars are familiar, the scenery is familiar, and the plot is typically implausible. The whole film might have been made from scraps on the cutting room floor.

Sandra Dee is the perfect heroine — blonde, beautiful, vague, and completely unable to act. She portrays the granddaughter and heir of a millionaire, Maurice Chevalier, who spends the movie in his bedroom pretending to be at death's door. Chevalier seems to be laughing not only at the farcical problems of the other characters, but at the pretensions of the actors involved; it must be amusing to the old pro to be able to upstage the other stars from a deathbed.

The movie seems to be over as it begins. The dear granddaughter has at last found the right man (Andy Williams) when she is called to her dying relative. The first hitch occurs when she is requested to bring her beloved across the continent to meet grandpa before he fails. Weather prevents; Sandra is desperate; enter the hero (or scoundrel) over the wall. He turns out to be Robert Goulet, and the audience settles back for some good music.

All they get is strained farce. Granddad recovers. He analyzes the situation. It is obvious to him that his heir is not really in love with Andy; her toes don't curl when she kisses him. Goulet, on the other hand, gives a positive reaction. So a complex little she-loves-me, she-loves-me-not battle starts, with grandpa calling the shots.

There are some funny scenes. The sight of a jet propelled barbequed chicken is almost as ludicrous as the sight of Andy Williams and Robert Goulet wishing they could just get away someplace and sing. For someone who

had never seen a Hollywood comedy before, the whole movie would be fairly clever.

For full enjoyment of the main feature, it is recommended that the second attraction, 'Sing and Swing,' be seen first. This very poor film deals with the success story of four typical English teen age idols. It is studded with completely random rock-and-roll numbers by even more random and repulsive groups; this is partly explainable by the revelation at the end that it was all a dream. And after this nightmare, 'I'd Rather Be Rich' is pure enjoyment.

## Making the Scene

S	M	T	W	T	F	S
11	12	13	14	15	16	17
18	19	20				

### THIS WEEK

**MUSIC**  
Pete Seeger — at the Back Bay Theatre, Oct. 9, 8:30 pm; \$2.20 to \$4.00.  
Ian and Sylvia — Kresge Auditorium, Oct. 10 8:00 pm, presented by the class of 1965; all tickets \$2.25, with 25c reduction for seniors.  
Gardner Museum — Saturday, Oct. 10, 3:00 pm, Ray Fennelle, baritone, and Robert Sullivan, guitar; songs by Johnson, Byrd, Schumann, and sea shanties. Sunday, Oct. 11, 3:00 pm, Robert Garstide, baritone, and Keith Humble, piano; songs by Debussy, Ravel, and Poulenc. Both concerts free.  
Organ Recital — Victor Matfield, Institute organist; Oct. 8, 12:15 pm, Kresge Auditorium; admission free.

**THEATRE**  
LSC Contemporary Series — 'Bridge on the River Kwai,' with William Holden and Alec Guinness, Kresge Auditorium, 6:30 and 9:30 pm, Oct. 9; admission 50c.  
LSC Entertainment Series — 'Dr. Strangelove,' starring Peter Sellers; Oct. 10, 5:15, 7:30, and 9:45 pm, Room 28-100; admission 50c.

**LECTURE**  
Ford Hall Forum — Vance Packard, 'The Naked Society,' Oct. 14, 8:00 pm, Jordan Hall; admission free, preferential seating for members; membership, \$3.00 for 20 lectures.  
William H. Allen — member of the Christian Science Board of Lectureship; 'Man Unlimited,' in the Bush Room, 10-105, Oct. 9, 8:00 pm, admission free.  
Ruth St. Denis — founderess of modern dance; at the BU Concert Hall, Oct. 8, 1:00 pm, and at the gym, 3:00 pm; also appearing at Wesley College, Jewett Auditorium, Oct. 7, 4:40 pm; admission to all lectures free.

**MISCELLANEOUS**  
Museum of Science — 'The Earth from Space,' a special exhibit showing the earth as seen from a space station; at the Hayden Planetarium through Nov. 20. Admission 50c, plus the museum admission fee of \$1.00.  
Boston Public Library — Special Japan Week exhibits now showing; lectures at the library include such topics as flower arrangement, life in Japan, youth in Japan, and others.  
Museum of Fine Arts — Max Beckmann exhibition, admission 50c; new acquisitions of Asiatic art, other permanent exhibits are free.  
Faculty Club Exhibit — Paintings by R. J. Mathai; through October.

**NEXT WEEK**  
**MUSIC**  
MIT Humanities Series — The Borodin String Quartet of Moscow, first American tour; Oct. 18, 8:00 pm, Kresge Auditorium; tickets \$2.50 each, \$10.00 series for 5 concerts; available at the Box Office, ext. 2910.  
Jordan Hall — Miklos Schwalb, pianist, in a program of music by Schumann, Rachmaninoff, and Bartok; Oct. 14, 8:30 pm, admission free.  
Gardner Museum — Oct. 17, 3:00 pm, Jerry Bramblett, piano; program: Handel, Suite No. 3; Mozart, Sonata in D, K. 576; Debussy, Two Preludes, Op. 15, 3:00 pm, Carol Rand and Newton Wayland, pianists; program: Brahms, Five Waltzes from Op. 39; Bartok, Sonata; Rachmaninoff, Suite No. 2. Both concerts free.  
Boston Symphony Orchestra — Fri., Oct. 16, Sat., Oct. 17, and Open Rehearsal, Thurs., Oct. 15; Erich Leinsdorf Conducting in Symphony Hall; no program available.

**THEATRE**  
LSC Contemporary Series — 'Sundays and Cybele,' Oct. 16, 6:30 and 9:30 pm, Kresge Auditorium; admission 50c.  
LSC Entertainment Series — 'Charade,' starring Gary Grant and Audrey Hepburn; Oct. 17, 5:15, 7:30 and 9:45 pm, Room 28-100; admission 50c.  
LSC Classics Series — 'Of Mice and Men,' Oct. 18, 8:00 pm, Room 10-250; admission by membership ticket only.

**LECTURE**  
Ford Hall Forum — Harry Schwartz, 'Tears, Mandarins, and Commissars,' Oct. 18, 8:00 pm, Jordan Hall; admission free.  
Museum of Fine Arts — opening Oct. 15, the Frederic Law Olmstead Memorial Exhibition; photos of the work of America's first landscape artist, creator of the Boston and New York park systems. Starting Oct. 20, Toulouse-Latrecentenary exhibition.

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Tuesday Oct. 13 thru Sunday Oct. 18  
Eves. Tues. thru Sat. at 8:30 — Mats. Sat. & Sun. at 2:30  
MUSIC HALL  
288 Tremont St., Boston, Mass. Tel. 423-3300  
Enclosed please find my check/money order for \$ \_\_\_\_\_ to cover the cost of tickets specified.

Please make check payable to Music Hall

Date of Perf.	Eve. or Mat.	No. of Seats	Location	Price	Alternate Date

(Give alternate whenever possible.)

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An Embassy Pictures Release  
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STARTS TOMORROW  
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CO 7-8181

## D'Oily Carte opera in Boston Oct. 18

The D'Oily Carte Opera Company, one of the world's outstanding Gilbert and Sullivan repertory groups, will be in Boston October 18 to 31. Tickets at \$6.00 to \$2.20 are now available at the Colonial Theatre.

The operas to be presented in Boston are 'Trial by Jury,' 'H.M.S. Pinafore,' 'Pirates of Penzance,' 'The Mikado,' and 'Iolanthe.' Stars from the Savoy Theatre, London, include Donald Adams, John Reed, Kenneth Sanford, Peggy Ann Jones and Jennifer Toye. The group is on American tour, presented by Sol Hurok.



theatre...

# O'Neill play well acted, directed

By Sherry Gailman  
and Jeff Stokes

"A Touch of the Poet," by Eugene O'Neill, is the tragedy of a man, even though the only casualty is a horse. The man, Cornelius Melody, an innkeeper in a village near Boston, once fought his way to glory in the Battle of Televerra, Spain.

His commanding officer had decorated him in front of the entire army for his bravery. For reasons which O'Neill left unexplained he later left his Scottish castle to set up an inn in Massachusetts.

Melody lives in a dream. He tries, in a rough-and-tumble Irish community in the days of Andy Jackson, to preserve intact the intense self-worship that grew out of his adventures in Spain. He can only do this, it seems, with the help of drink. Yet O'Neill endows him with a little more than blind vanity, and in the course of the play he comes to recognize and reject his foolish pride.

To set this process of self-recognition in motion, O'Neill generates a fairly Elizabethan plot involving Melody's daughter Sara, a young poet attempting self-emancipation a la Thoreau, and the poet's rich Yankee father.

The major goes to war over his daughter's "honour" and is beaten up by the police. Stumbling home at dawn, he challenges his thoroughbred mare to a duel and puts a bullet through her head. Only an experienced playwright can keep an incident like this serious and tragic. There is no vagueness in the symbolism of the horse; she represents, at least to Melody, his old self, Major Melody of Televerra fame. In assassinating the mare he assumes a new personality; he is no longer the "prisoner of his pride." This symbolism, which many will choose to sneer at, is quite appropriate because it could easily have occurred in life.

The acting leaves little to complain about, unless it be that Jane Alexander overplayed the blase attitude of Sara, or that a line or two was late in coming. The prize must go to Katherine Squire who played Nora Melody, but we must grant Leigh Wharton, of television, Broadway and Shakespeare fame a close second. The entire company carried off the

**A TOUCH OF THE POET**, by Eugene O'Neill, at the Charles Playhouse for five weeks. Directed by Michael Murray; starring Leigh Wharton as Cornelius Melody, Katherine Squire as Nora Melody, and Jane Alexander as Sara Melody.

Irish brogue in a manner both amusing and authentic.

Despite the efforts of the actors, the play is not O'Neill's best. The first act resembles an old fashioned soap opera rather than a modern drama. The short second act is delightful, by far the best of the three. Director Michael Murray must be commended for his staging of it. The small stage at the Charles Playhouse is used to advantage to give the impression of several things going on at once, at varying distances from the center of action, which results in the heightening of suspense.

The third act is an O'Neill conglomeration of forceful, almost tragic lines and surprise twists which really aren't so surprising. Wharton's performance here is superb as he seems somehow to rise above the level of the other characters in the play. After breaking on a rather sentimental scene between Sara and her mother, he suffers a glorious defeat that is one of the highlights of the play and stomps out of the room.

The viewer is left at this point in uncertainty, but mother and daughter bring the play back down to earth. They resolve to endure, as they have endured in the past; but the viewer still feels that somehow, he has been ditched.

## WTBS Schedule

### Fall term program listings

88.1 Megacycles F.M. 640 Kilocycles A.M. Temporary Program Schedule as of September 27, 1964.

#### SUNDAY

2:00 Sign On, Music of the Twentieth Century  
4:00 World of Song  
5:00 This is the Blues  
7:00 Music at MIT  
8:00 The Spoken Word  
9:00 News  
9:10 Classroom Concert  
12:00 News  
12:10 Jazz at Midnight  
2:00 Sign-Off

#### MONDAY

8:00 Sign On, Rise & Shine  
8:45 News on Hour and Half Hour  
9:45 Sign Off  
7:00 Sign On, News  
7:05 The John C. Heine Show  
9:00 News  
9:10 Announcer's Choice  
9:15 News with Adam Powell  
12:15 Jazz at Midnight  
2:00 Sign Off

#### TUESDAY

8:00 Sign On, Rise and Shine  
8:45 News on Hour and Half Hour  
9:45 Sign Off  
7:00 Sign On, News  
7:05 Pericco, Stomp, & Glee  
8:00 Folkside  
9:00 News  
9:10 Masterworks  
12:00 News with Adam Powell  
12:15 Jazz at Midnight  
2:00 Sign Off

#### WEDNESDAY

8:00 Sign On, Rise & Shine  
8:45 News on Hour and Half Hour  
9:45 Sign Off  
7:00 Sign On, News  
7:05 Ramblin' Round  
9:00 News  
9:10 Masterworks  
12:00 News with Adam Powell  
12:15 Jazz at Midnight  
2:00 Sign Off

#### THURSDAY

8:00 Sign On, Rise & Shine  
8:45 News on Hour and Half Hour  
9:45 Sign Off  
7:00 Sign On, News  
7:05 Limelight Review  
7:30 WTBS Presents  
9:00 News  
9:10 Masterworks  
12:00 News with Adam Powell  
12:15 Jazz at Midnight  
2:00 Sign Off

#### FRIDAY

8:00 Sign On, Rise & Shine  
8:45 News on Hour and Half Hour  
9:45 Sign Off  
5:00 Sign On, News  
5:05 Jazz Special  
7:00 News  
7:05 Coffee House Theater  
9:00 Raisin' a Ruckus—live folk music  
10:00 News  
10:10 Nite Owl—Music by Telephone request. Remember our new number UN 8-WTBS  
12:00 News with Adam Powell  
12:15 Nite Owl, Part II  
2:00 News  
2:05 Sign Off

#### SATURDAY

3:00 Sign On, Rock & Roll Memory Time  
5:00 Jazz Spotlight  
7:00 News  
7:05 Sound of Saturday  
9:00 News  
9:10 Nite Owl, Part I  
12:00 News  
12:10 Nite Owl, Part II  
2:00 News  
2:05 Sign Off  
In addition to the above, WTBS-AM also broadcasts music from MIT's Hayden Music Library each day from 9:45 in the morning to Sign On in the afternoon.

## BOSTON SYMPHONY ORCHESTRA

ERICH LEINSDORF, Music Director

### NEW SERIES

FOR THIS SEASON

### Three Wednesday Concerts

Symphony Hall, 8:30

Nov. 25 Jan. 27 Apr. 14

Remaining series subscriptions are now available at \$11, \$9, \$6.50. Orders may be made by mail or in person at the Boston Symphony Orchestra Subscription Office, Box W, Symphony Hall, Boston, Mass. 02115. For mail orders please make checks payable to Boston Symphony Orchestra and please enclose stamped, self-addressed envelope.

## Ballets de Madrid to present De Falla, flamenco in Boston

S. Hurok will present Antonio and the Ballets de Madrid, the Spanish flamenco and native dance revue, in Boston for seven performances, Oct. 13 through 19. The ballet will be at the Music Hall theatre; tickets are from \$7.50 to \$2.00. There will be matinees Saturday and Sunday, Oct. 17 and 18.

The ballet was sold out in New York recently as soon as the reviews appeared in print. The spectacular performance includes De Falla's "El Amor Brujo," as well as many of the traditional flamenco dances and guitar numbers popular in Spain.


HARVARD SQ UN 4-4580

Ingmar Bergman's  
"The Silence"  
3:00, 6:25, 9:55  
"Night Must Fall"  
1:15, 4:40, 8:10

BRATTLE SQ TR 6-4226

Kurosawa's "The Idiot"  
(Based on Dostoevski)  
6:00 and 9:00 daily,  
Matinee Saturday at 3:00

Starting Sunday:  
Russian film of Tolstoy's  
"Resurrection"  
4:30, 7:30, 9:30



## PETE SEEGER

FRIDAY, OCT. 9 8:30 P.M.

BACK BAY THEATRE  
(formerly Donnelly Memorial)

209 Mass. Ave., Boston

Tickets: \$4, 3.25, 2.80, 2.20

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**SAVE 25% ON ALL SEATS**  
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**This Saturday, October 10**  
**Matinee 2:30 and Evening 8:30**  
Bring this ad and student identification to the  
Shubert Theatre box office before 6 p.m. Friday, October 9  
**265 TREMONT STREET**  
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**CHITA KIVERA NANCY DUSSAULT in**

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# BAJOUR

Co-Starring **BERNARDI**

Book by **ERNEST KINYO**  
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Based on New Yorker stories by **JOHN STEINBECK**

Musical Numbers Staged by **PETER GENNARO**  
Scenery Designed by **OLIVER SMITH**  
Costumes by **FREDDY WITTOP**  
Vocal Arrangements & Musical Direction by **LENNAN ENGEL**  
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Directed by **LARRY KASHA**  
Original Cast Album by COLUMBIA RECORDS

## LECTURE SERIES COMMITTEE CALENDAR

Contemporary Series  
**THE BRIDGE ON THE RIVER KWAI**

Friday, October 9  
6:30 - 9:30

50c  
Kresge

Entertainment Series  
(Schedule Change)

**FROM RUSSIA WITH LOVE**

Saturday, October 10  
5:15 - 7:30 - 9:45

50c  
Kresge

## Cherchez la Femme

### Research in girl-hunting

Equipment for Tech tool with urge to meet nice (fill in school name) girls: telephone; copy of 'Social Beaver'; pen and pencil; coherent line.

Theory: most girls like to meet Techmen. Therefore, most girls are happy to give information to Techmen, in hopes that said Techmen and friends will come to mixers.

Experimental procedure: Call random dormitory of school. Ask for Social Chairman. Ask her (or unfortunate who answered phone) about mixers.

Conclusions: Theory once again proves unequal to the task.

An amazingly large number of mixers seem to have been held 'last week,' no matter when last week was, or what the Social Chairman told you seven days ago. No explanation has yet been given for this strange phenomenon.

Among last week's mixers mentioned this week were the Wheelock mixer and the Simmons mixer. Apologies to those of you who missed them.

Bexley Hall's representative cornered me to inform me that that 'Burton mixer' we reported last week was indeed a Bexley mixer held in Burton. This explains why those people contacted in Burton House had no information about it. The posters around the Institute did not contain this bit of information, I'm afraid.

Now that you've seen that, indeed, Cherchez is far from infallible, let's see what is happening.

The Towers mixer mentioned last week is still scheduled for this Friday. The Tech is sitting on a few invitations, first come, first serve (If you can get them

away from certain of our staff members, who shall remain anonymous). The girl to call if you can't reach us is Muriel Freundlich, at 262-2100. The mixer is at 8:00, and in theory you can't get in without an invitation.

East Campus and Baker House will live up the MIT scene this Friday, also. Baker promises a live band in the deal. Baker is at 8:00, and guys will have to shell out \$1.25 for the privilege of seeking a girl. Girls can look for free.

East Campus doesn't give a date, but it's presumably 8:00 or 8:30. Males pay six bits, females nothing.

Wednesday, at least at first impression, it's jolly-up night at Radcliffe (a jolly-up is a mixer, sort of. The best way to find out what the sort of is, is to attend one). We received reports of mixers at Comstock, Holmes, and Morse Halls. This is correct, but they're all the same mixer. The three are all parts of North House.

For those of you with maps or better luck at locating street signs than most of us, one gets to North House by going slightly past Harvard Square on Massachusetts Avenue to Garden Street. Follow Garden Street to Shepherd Street, cross the courtyard, and you're there. Admission may be by invitation, so try to find a contact in one of the dorms.

Finally, MIT and BU Hillel will have a Graduate Society Dance Sunday at 8:00 at 233 Bay State Road. This is for graduates and senior girls. Members get in free. Non-members pay \$1.00.

Finally, don't forget the computer mixer we mentioned last week. Send in your specifications for the transistor of your dreams.

### Max Beckmann, French Art, Oriental culture on exhibit at Museum of Fine Arts

Boston's Museum of Fine Arts has just opened an exhibit by the great German contemporary, Max Beckmann. The collection of 168 paintings, prints and watercolors is the first major U. S. showing of the artist's work since his death in 1950.

Beckmann's talent is striking to many, but probably understood by few. His brilliant, garish colors and his often crude forms are sometimes repellent. A brief perusal of his life and the principles of his art are recommended before seeing the exhibit. The brooding eyes of his many self-portraits reveal part of the internal struggle that made his life and his work interesting.

Beckmann's work provides striking contrast to the other material in the museum. It first arouses the impression that it really belongs in a museum, where it can be enjoyed in small doses. On the other hand, the museum's fine Impressionist and Barbizon masterpieces seem to fit naturally into a home. The Monets and Renoirs alone are worth a trip to the galleries.

Admirers of Oriental art will enjoy the permanent exhibits of Japanese and Chinese painting, sculpture, pottery, clothing and architecture. Classical devotees will want to see the recently recovered golden earring representing the goddess Nike, a Fourth Century B.C. masterwork. The museum offers education and enjoyment for any taste; reproductions of appealing works are available.

### Movie Schedule

Wednesday, October 7, through Tuesday, October 13 (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** — 'That Man from Rio,' 10:00, 12:20, 2:45, 5:00, 7:30, 9:55.

**BEACON HILL** — 'One Potato Two Potatoes,' 10:00, 12:00, 2:00, 4:00, 6:00, 8:00, 10:00.

**BOSTON CINERAMA** — 'Circus World,' 8:30, 10:30, 12:30, 2:30, 4:30, 6:30, 8:30, 10:30.

**BRATTLE** — 'Kurosawa's 'The Idiot' (based on Dostoevski), 6:00 and 9:00 daily, matinee Saturday at 3:00. Starting Sunday: Russian film of Tolstoy's 'Resurrection,' 4:30, 7:00, 9:30.

**CAPRI** — 'Lorna,' 10:50, 12:40, 2:30, 4:20, 6:10, 8:00, 9:50; Sun. 1:50, 3:40, 5:30, 7:20, 9:10.

**CINEMA KENMORE SQUARE** — 'Girl With Green Eyes,' no times available.

**ESQUIRE** — 'Divorce Italian Style' and '8,500,' no times available.

**EXETER** — 'Matteo,' 2:10, 4:00, 5:00, 7:40, 9:30.

**GARY** — 'Four Days in November,' 10:30, 12:45, 3:00, 5:15, 7:30, 9:40.

**HARVARD SQUARE** — Ingmar Bergman's 'The Silence,' 3:00, 5:25, 9:55; 'Night Must Fall,' 1:15, 4:40, 8:10.

**KEITH MEMORIAL** — 'I'd Rather Be Rich,' Mon.-Thurs. 9:30, 12:30, 3:42, 6:48, 9:54; Fri.-Sat. 9:28, 12:36, 3:44, 6:52, 10:00.

**LOEW'S ORPHEUM** — 'Fate is the Hunter,' 1:00, 3:00, 5:00, 7:05, 9:10.

**MUSIC HALL** — 'A Shot in the Dark,' 10:15, 12:30, 2:45, 5:00, 7:20, 9:45; Sun. 1:00, 2:30, 5:20, 9:45.

**PARAMOUNT** — Wed. and Thurs. only, 'Hamlet,' starring Richard Burton, at 2:00 and 8:00; starting Fri. 'Quo Vadis,' 10:12, 1:30, 5:06, 8:33.

**PARK SQUARE CINEMA** — 'Seduced and Abandoned,' 1:30, 3:35, 5:40, 7:45, 9:55.

**PARIS** — 'Cartouche,' no times available.

**SAXON** — 'The Visit,' 10:00, 12:00, 2:00, 4:00, 6:00, 8:00, 10:00; Sun. 1:30, 3:30, 5:30, 7:30, 9:30.

**UPTOWN** — 'Fall of the Roman Empire,' 12:40, 4:50, 9:05, ex. Oct. 11, 1:00, 5:05, 9:20; 'The Silence,' 11:00, 3:10, 7:25, ex. Oct. 11, 3:25, 7:40.

**WEST END CINEMA** — 'A Kind of Love,' 11:30, 1:30, 3:30, 5:30, 7:30, 9:30.

**THEATRES**

**CHARLES PLAYHOUSE** — 'A Touch of the Poet,' Wed. at 8:00, Sat. 5:30, 9:00, Sun., 3:00, 7:30, other evenings except Mon. at 8:30.

**COLONIAL** — 'Barefoot in the Park,' 8:30, 10:30, 12:30, 2:30, 4:30, 6:30, 8:30, 10:30.

**WILBUR** — 'I Was Dancing,' a new comedy starring Orson Bean, Burton Meredith, and Pert Kelton; 8:30, 10:30, 12:30, 2:30, 4:30, 6:30, 8:30, 10:30.

**VOTE**  
October 27,  
1964

A wonderfully tender  
and touching drama!  
"Girl With Green Eyes"

**CINEMA KENMORE SQ.** 262-3799

**CAFE ORLEANS**  
A EUROPEAN  
COFFEE-HOUSE

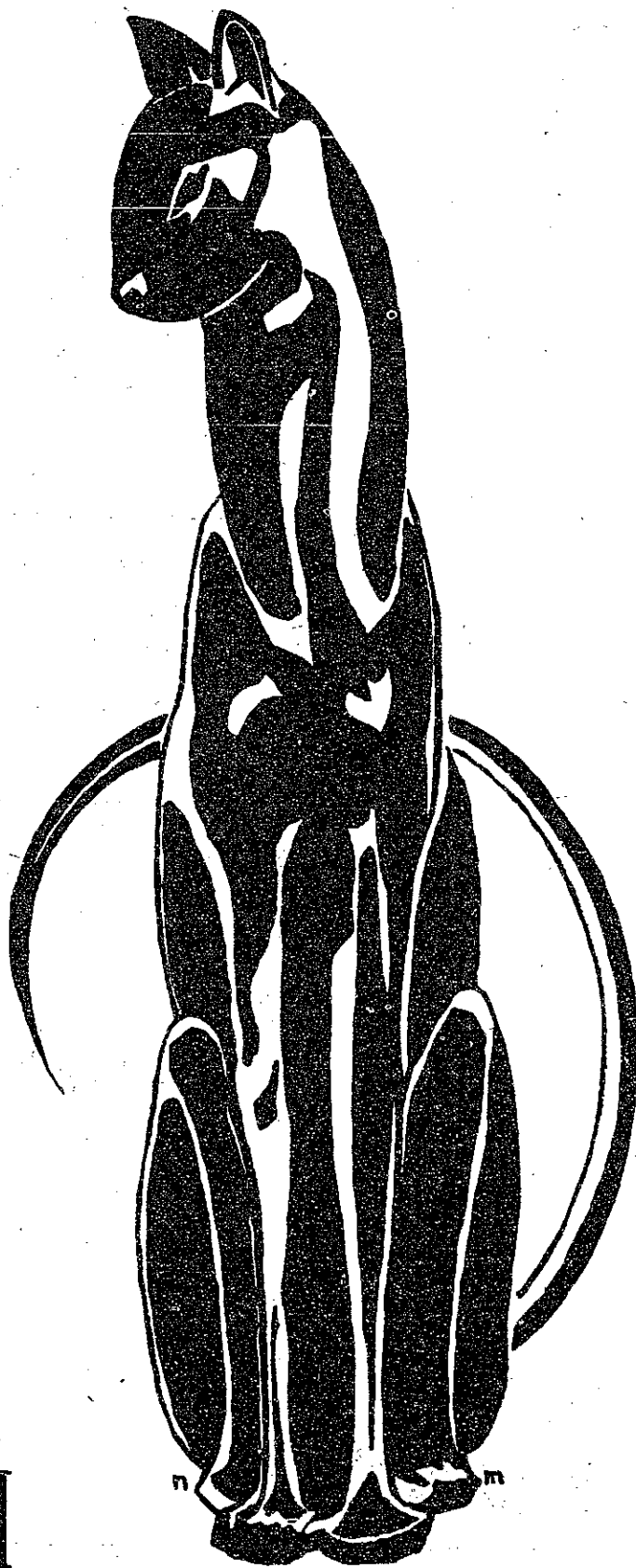
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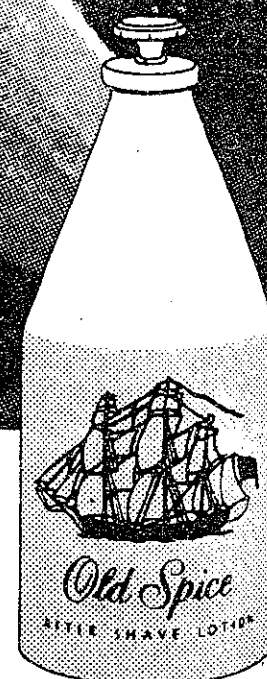
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SHULTON



## Greens long interested in education have supported many institutions

(Continued from Page 2)  
Geophysical Observatory  
near Bergen Park, Colorado and  
medal awarded annually to the  
standing graduating senior in  
geophysics are identified with him.  
He organized the Geophysical  
Incorporated Earth Sciences Co-  
operative Plan in Geophysical Ed-  
ucation, a program that provides

summer jobs for students in the  
earth sciences.  
He holds honorary doctor's de-  
grees from the University of Bri-  
tish Columbia, the University of  
Sydney, Colorado School of Mines,  
and the University of Tulsa.  
Ida Maybelle Flansburgh was  
born in Pittsburgh, Pennsylvania  
and grew up in upper New York  
State. She met Cecil Green while  
he was working on his master's.  
Their honeymoon consisted of  
moving to Boston when Green ac-  
cepted a research engineer's as-  
signment with Raytheon.  
Their joint interest in current  
educational endeavors has brought  
the Greens to the conclusion that  
"there has never been any bet-  
ter generation than the present-  
day young people," a belief that  
has inspired their investments in  
a broad range of activities and  
institutions of which the Cecil  
and Ida Green Building is but  
an example.

## October Presidential poll to include opinion of faculty in addition to student vote

The Secretariat announced this  
week that provision had been  
made for the faculty to voice  
their opinion in the Goldwater-  
Johnson poll to be held this Oc-  
tober 27.  
The vote will be taken by a  
ballot mailed to each member of  
the faculty a week before the  
student vote is taken. Results will  
be published by The Tech on the  
following day.

## Dr. G. R. Harrison gets medal in optics

Dr. George R. Harrison, emer-  
itus Dean of Science, has been  
awarded the C.E.K. Mees Medal  
of the Optical Society of America.  
The award was for contributions  
to spectroscopy, especially for  
broadening of the field to appli-  
cations in astrophysics and the de-  
termination of temperature and  
other properties of matter that  
are otherwise unmeasurable.

## Productivity up, too Continuing arms race menaces security--Wiesner

(Continued from Page 1)  
years. You have to have some in-  
telligent plans for new communi-  
ties, better transportation, and  
new industry."  
As an example of the possible  
new fields of research, the Dean  
pointed out that there are nearly  
forty million Americans going to  
school today, yet there is practi-  
cally no development in the  
educational field. He also cited  
the need for faster inter-city  
transportation and mentioned both  
supersonic aircraft and 200 mile  
per hour railroads.

Dean Wiesner pointed out that  
work needs to be done to elimi-  
nate automobile accidents and to  
reduce the damage in those that  
do occur. Work must also be  
done, he said, to insure conser-  
vation of natural resources and to  
fight such problems as water  
pollution.

When asked which of these  
fields he would recommend more  
effort be given to if he were still

science advisor, the Dean replied,  
"I recommended all of them when  
I was in Washington."

**Research and Education**  
Commenting on the question of  
emphasis on research versus  
undergraduate education at MIT,  
Wiesner said that it is wrong to  
speak of research as something  
apart from education. In fact, he  
said, MIT would have no business  
doing research that did not help  
its educational function. Moreover,  
research is an indirect way of im-  
proving MIT's environment.

The Dean acknowledged that  
over the past few decades  
research budgets have increased  
much more rapidly than teaching  
expenditures in the School of  
Science. However, so has produc-  
tivity. While it is difficult to  
quantify the productivity of a  
research worker, expensive labo-  
ratory equipment and computa-  
tional aids now make it possible  
for students to do jobs that  
couldn't be done by anyone twenty  
years ago.

Moreover, graduate education  
involves considerable research;  
and the cost of a block of research  
time roughly doubles each decade.

The dean said that under-  
graduate teaching costs have not  
kept pace with rapid growth in  
research costs because teaching  
methods have remained relatively  
constant. The only real rise in the  
cost of undergraduate education is  
the rise in the teachers' salaries,  
and the cost of buildings, he com-  
mented.

**NASA needs MIT**  
Concerning the location of the  
NASA Space Research Center to  
be built near MIT, Dean Wiesner  
said that NASA felt that they  
needed to be near both MIT and  
Harvard and that MIT took no  
official action to have them locate  
close by.

He added that the NASA Center  
will have no direct effect on MIT  
except that it will redevelop the  
industrial area behind the Insti-  
tute. Its primary effect, he said,  
will be on local business; NASA  
will ultimately bring hundreds of  
millions of dollars into the area.

The center is not likely to affect  
MIT's science research program,  
he said, though there will be some  
interchange between MIT people  
—particularly those involved in  
space research—and the NASA  
staff.

## D. Webster appointed new housing manager

Mr. Daniel G. Webster has been  
appointed Manager for On-Cam-  
pus Housing to fill the vacancy  
created by the sudden passing of  
Mr. Henry K. Dow.

Webster has had a lengthy as-  
sociation with the Institute most  
recently as associate director of  
Graphic Arts.

He will assume his new respon-  
sibilities of serving residents'  
needs and implementing the In-  
stitute's housing goals October 15.

## William T. Struble named to editorship, Technology Review

Appointment of William T.  
Struble as managing editor of  
Technology Review, a monthly  
magazine of the MIT Alumni  
Association, was announced by  
Volta Torrey, editor and publish-  
er.

Struble came to MIT in 1959 as  
assistant director of public rela-  
tions and became editor of Re-  
ports on Research, a monthly bul-  
letin on science, when it was es-  
tablished in 1963.

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## Mantle Composition

### Last two sessions cover earth

'The Solid Earth' was the final topic of discussion for the International Conference on Earth Sciences, and both Thursday afternoon and Friday morning were devoted to it.

Chairman of the Thursday afternoon session were Dr. J. Tuzo Wilson, Professor of Geophysics and Director of the Institute of Earth Sciences of the University of Toronto, and Dr. Raymond Hide, Professor of Geophysics and of Physics at MIT.

Leading off the discussion was Dr. Gordon F. MacDonald, Professor of Geophysics and Director of the Atmospheric Research Laboratory of UCLA. He spoke on 'Long-term Mechanical Properties of the Earth and Its Internal Motions.'

Information on the mechanical properties of earth, he said, is mainly derived from seismic rays. The mantle of the earth is considered to be viscous. However, the group of elastic solids which make it up is more complex than fluid mechanism and a single parameter cannot be used to describe an elasticity.

Next on the program was Dr. Frank Press, Professor of Geophysics and Director of the Seismological Laboratory of the California Institute of Technology. He discussed 'Seismological Information and Advances.'

Dr. Press compared periods and magnifications of various disturbances in the earth. He also described various types of seismograph, one so sensitive that it

could detect a change of 1/16 inch between New York and Los Angeles. He also described the methods for determining group and phase velocity of earthquakes, and exhibited strain-seismographs of the Alaskan quake. Press also showed the "strain field" which was measured from a fault in Alaska.

Moving to the subject of nuclear explosions, he said that seismographic equipment can detect such explosions in a country without the physical presence of detectors in that country. Discussing the necessity of inspection, he mentioned that there are only 40 events per years in the USSR which cannot be identified, as opposed to 500 in 1958.

Final speaker on Thursday was Dr. A. E. Ringwood, Senior Fellow of the Department of Geophysics of the Australian National University. He discussed 'Composition and Phases of the Mantle.'

Friday morning's session, chaired by Sir Edward Bullard, Professor and Head of the Department of Geodesy and Geophysics at Cambridge University and Dr. Patrick M. Hurley, Professor of Geology at the Institute.

Leadoff speaker was Dr. Fran-

cis Birch, Sturgis Hooper Professor of Geology at Harvard. He discussed 'Temperature, Heat Production and Thermal History of the Earth.'

Following Birch was Dr. Gerald J. Wasserburg, Professor of Geology and geophysics at the California Institute of Technology. He discussed 'Geochronology and Isotopic Data Bearing on the Development of the Continental Crust.'

After giving a short history of research into the topic, Dr. Wasserburg discussed the present bearing on crust development. More complexities are suggested, said Wasserburg, than are even hinted at by a simple fractioning two-layer crust-mantle model. Clarification, he said, will demand the activity of all branches of the earth sciences.

Final speaker at the conference was Dr. Walter M. Elsasser, Professor of Geology at Princeton University. He discussed 'Mechanics of the Upper Mantle.'

## Earth Science Conference

## Berkner spoke at banquet for Green Building; Speculated on earth sciences advances, future

Dr. L. V. Berkner, President of the Graduate Research Center of the Southwest Center for Advanced Studies, spoke on October 1 at the banquet commemorating the dedication of the Cecil and Ida Green Building.

Dr. Berkner has written books in various areas of scientific endeavor and has published nearly 100 papers. Speaking on Man and his Planet—Earth, Dr. Berkner spoke on the recent advances in the field of earth sciences and speculated on the future contributions to this field to be made at the Earth Science Center.

After a few preliminary remarks on the vagaries of Mother Earth, specifically those of Hurricane Cleo and his home in Fort Lauderdale, Florida, Dr. Berkner delved briefly into the historical advances of the earth sciences. He noted that although failure of instruments at the peak of major natural events seems to occur with distressing regularity, significant advances had been made

in the understanding of natural events, resulting in the saving of many dollars and numerous lives.

Contributions from all areas of science — physics, chemistry, biology and mathematics — have aided the various fields of the earth sciences, Dr. Berkner remarked. The advances in technology specifically electronics have aided earth scientists in their studies.

Dr. Berkner went on to discuss the new School of Earth Sciences here at MIT and the contributions of Cecil and Ida Green that made this new school possible. Berkner noted the use of the MIT education which Mr. Green made, and reflected on the appreciation which caused Mr. Green to return it manyfold.

Berkner closed by honoring the earth sciences, MIT for enabling the establishing of the new school, and the dedication to education of Cecil and Ida Green.

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## Second session of conference on atmosphere

(Continued from Page 2)

Swinbank, of the Commonwealth Science and Industrial Research Corporation of Australia, who discussed the same subject.

Lorenz' paper concerned "the possibility of deducing the properties of the circulation from the laws which governs it." The atmosphere is nonperiodic and "therefore cannot be predicted to do the same thing twice by any acceptable forecasting scheme."

But, he concluded, "the theory which so neatly asserts the ultimate unpredictability of the atmosphere does not tell us how far into the future we can predict. The rate at which initial errors will amplify may be estimated through numerical experiments."

Mathematically these errors take on the average about five days to double. "If it really requires as long as five days for typical errors to double," Lorenz concluded, "moderately good forecasts as much as two weeks in advance may some day become a reality."

Eliassen discussed some recent advances in the theory of fronts and cyclones. He began with an explanation of the Norwegian cyclone theory. Vilhelm Bjerknes found that solutions of the linear perturbation equations "would invariably describe some sort of wave motion. From this he concluded that cyclones must originate as growing waves." This conclusion began a series of studies on the theory of the growing frontal waves.

Present ideas on the cyclone problem come from the "introduction of the quasi-geostrophic method and the discovery of the two different mechanisms by which disturbances of cyclone scale can grow, namely barotropic and baroclinic instability."

Eliassen continued with a discussion of the applicability of this theory to various fronts and atmospheric conditions, and of modern theories that have grown from it.

He concluded by stating that "there is still much to be done before we can claim to have a fully satisfactory theory of fronts and cyclones."

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# Solar system discussed

(Continued from page 2)  
 were shown to the conference.  
 The final talk was presented by Dr. Ludwig Biermann, Professor of Astrophysics at Goettingen University, and Director of the Institute for Astrophysics, Max-Planck-Institute for Physics and Astrophysics. His topic was "The Interplanetary Medium and Solar-Planetary Relations."  
 The interplanetary medium, said Biermann, has long been looked upon as a stationary environment, but this is not the case. The interplanetary plasma actually flows with a speed much greater than that of the earth. The final boundary between earth and interplanetary space is the magnetosphere, said Biermann. This is the area out to about ten planetary diameters which is controlled by the earth's magnetic field.  
 In conclusion, Dr. Biermann

emphasized two general aspects of interplanetary space physics. The first was that such phenomena as hydrodynamic shocks in the absence of collisions are much more readily observable under the conditions present in interplanetary space.  
 The second was that the interplanetary plasma is the only plasma of cosmic dimensions with densities and magnetic fields similar to those in interstellar space. For this reason, said Biermann, such studies are basic. Cosmic plasma physics, he concluded, "appear to be a link which connects . . . astrophysics, laboratory physics, and the Earth Sciences."

## Thursday session

(Continued from Page 2)  
 Institute. He discussed "Large-Scale Circulation of the Oceans." Final speaker of the morning was Dr. Walter H. Munk, Professor of Geophysics at the University of California at San Diego and Associate Director of the Institute of Geophysics and Planetary Physics at the University of California. Dr. Munk spoke on "The Spectrum of Waves."  
 MIT's oceanography section consists of six professors. Of these, four are physical oceanographers, one is a chemical oceanographer, and one is not specified.  
 These six are backed by three associate professors, one of geophysical oceanography, one of biological and chemical oceanography, and the third of physical oceanography.

## Earth Science Conference

## Burton wins IM All-Sports

Burton House ran away with the Intramural All-Sports Trophy awarded for supremacy in intramurals last winter. Their record 949.6 points put them far out of Baker House out in front of Baker House, who finished in second place with 561.9 points. They topped the previous record of 612.5 set by Sigma Alpha Epsilon the previous year. Part of the record is a result of the revision of the scoring tables to about 15-20% above the past years. This still leaves more than 200 points which can only be explained by a big team effort.  
 The secret to success for Burton House was complete saturation of the intramural program. They were shut out only in hockey and sailing, but more than made up for it by scoring at least 28 points in each of the other 15 sports. Another big help was saturation of many sports, especially volleyball, where they entered eleven teams and scored 40 points. They picked up four first places in basketball, softball, cross country and rifle.  
 The second place for Baker House came on similar tactics,

though not as concentrated. They were followed closely by Senior House with 527.1 points. Baker helped their cause with a first in table tennis and saturation scoring in bowling and basketball. Steady high finishes were the Senior House formula; though they cornered no trophies, there were only three sports where they failed to score.

Fourth place overall and top fraternity honors went to Theta Chi with 411.5 points, barely edging out Phi Delta Theta with 406.0. The big point winners for Theta Chi were a win in golf and seconds in basketball and hockey. The Phi Deltas scored their points with a first in swimming, second in softball, and a tie for third in touch football. Final standings of the top fifteen teams:

1. Burton House	949.6
2. Baker House	561.9
3. Senior House	527.1
4. Theta Chi	411.5
5. Phi Delta Theta	406.0
6. Lambda Chi Alpha	339.8
7. Phi Gamma Delta	333.0
8. Sigma Phi Epsilon	280.3
9. Sigma Chi	227.0
10. Theta Delta Chi	223.5
11. Alpha Epsilon Pi	210.9
12. Chinese Students Club	208.0
13. Beta Theta Pi	204.0
14. East Campus	191.8

## Application forms now available for grad school entrance exams

Application forms and completed information booklets for several graduate school entrance examinations are available at the Placement Bureau. Room 24-211.

In general, applications to take the examination must be filed at least two weeks in advance of the test date. To determine the exact date that applications must be received, check the individual test information booklets.

### Test dates

The testing calendar for the academic year 1964-65:  
 The Graduate Record Examination will be given November 21, 1964, January 16, 1965, March 6, 1965, April 24, 1965, and July 10, 1965. Fee for the aptitude test administered at the morning session is \$7. One advanced test taken at an afternoon testing session will cost \$8. If both the aptitude test and one advanced test are taken on the same test date the combination fee is \$12.  
 The Admission Test for Graduate Study in Business will be given November 7, 1964, February 6, 1965, April 3, 1965, and July 10, 1965. The examination fee is \$10.

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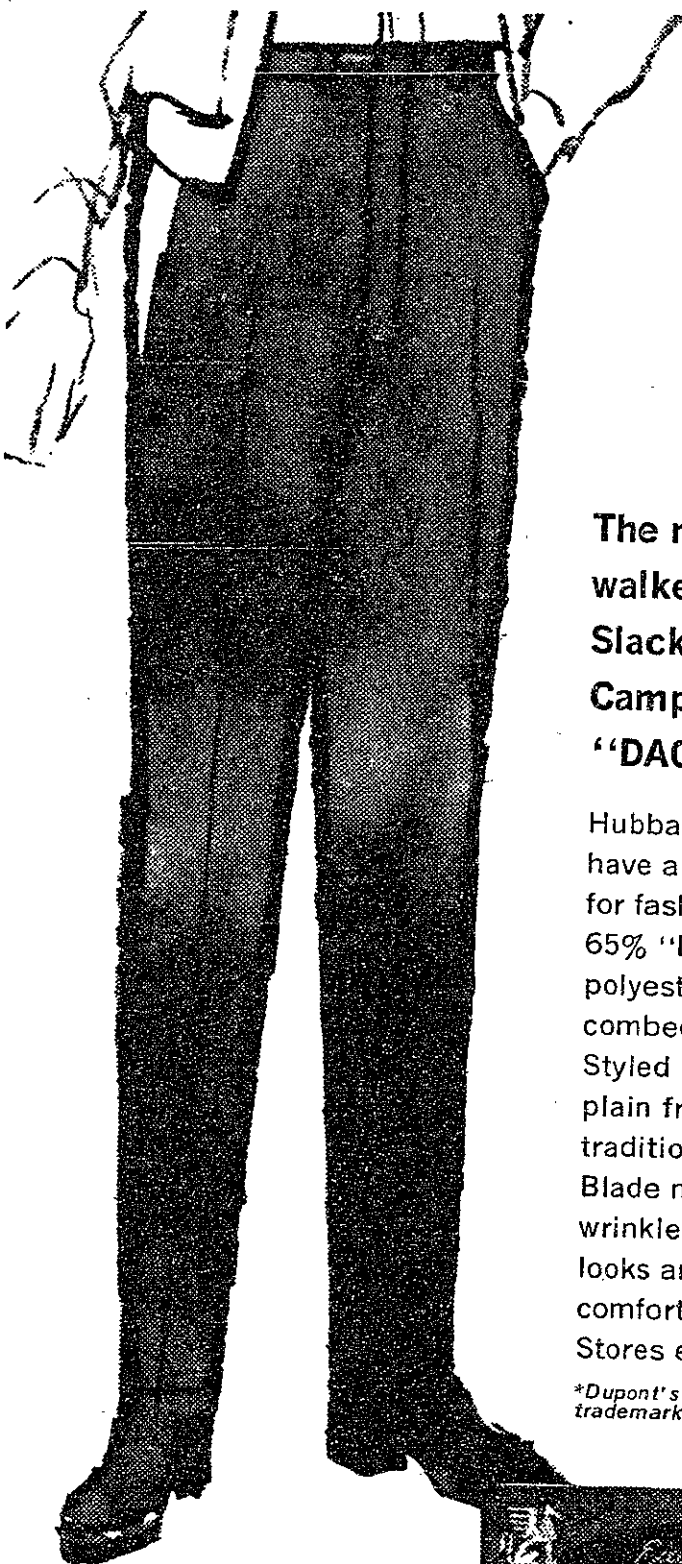
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## CAMPUS INTERVIEWS...OCTOBER 21

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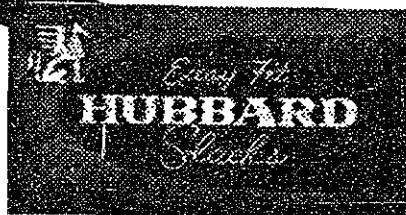
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## Meet begins Friday

### Sports Car Club presents Orange Autocross

By Mark Wallace  
The MIT Sports Car Club, composed of about thirty people interested in racing high quality automobiles, is sponsoring the Eighth Annual Orange Autocross at Orange Airport, Orange, Massachusetts, this weekend. The event will consist of three runs on

a traditional 1.5 mile course, with each car's best run determining its final standing.

#### Necessary equipment

The MITSOC will section all entrants into classes, so a new Ferrari is not required to win a prize. However, a car in good condition, racing helmet, seat

belts in good condition, and goggles (for open cars only) are needed along with the \$6.00 entry fee. Cars will be subject to a technical safety inspection before being allowed on the course.

This Friday, club members, under the direction of their president, Claus Emmer-Szerbesko, and Activities Manager Richard Marks, will set up the traditional haybales that mark the boundaries of the course. Later that afternoon the safety inspections will be held and preliminary practices will be taken on the course. All day Saturday the timed practices will be run with a special pneumatic-electric timer insuring accuracy to the nearest hundredth of a second. On Sunday the official racing will determine the winners.

#### Course considered tough

The course, although level, has many tight turns and the fastest cars hardly ever exceed 100 mph at any time during their runs. The lap record is 1:38.0 held by a Mercedes-Benz 300-SL for an average speed of a little over 55 mph. Any run of less than 1:48.0 (50 mph or better) is generally considered to be good.

Anyone wanting to participate in this event should see or call Claus Emmer-Szerbesko at 581-0428 or Richard Marks at 216 Graduate House for details as soon as possible. The MITSOC also wishes to invite any interested spectators to the event.

### Tennis team ties for 5th in ECAC; Third doubles reaches semi-finals

The MIT varsity tennis team traveled to Princeton, New Jersey, on October 2 and 3 to participate in the Eastern Collegiate Athletic Conference Tournament. Although faced with stiff competition, the Techmen tied Navy for fifth place, with Princeton winning.

#### Patrick comes from behind

Bill Patrick '65, MIT captain, met Naison of Columbia in the first round. Patrick blazed from behind 8-11, match point, to win 15-13. He was eliminated in the second round by Keith Jennings of Princeton, 3-12. Jennings was seeded number two in the tournament.

In other singles matches, Paul Ruby '66 was defeated 4-12 by Ham Magill of Princeton; Eric Coe '67 lost to Howard Cooley of Penn, 3-12; Ken Cooney '65 was beaten 4-12 by Lee Rawls of Princeton; Don Ward '65 lost 5-12

to Nick Hoogs of Harvard; and John St. Peter '67 lost 5-12 to Roger Hartman of Columbia.

#### Ward and Coe win

The MIT number three doubles team, Don Ward and Eric Coe, defeated Gutwart-Bertsche of Columbia 12-7 in the first round but were eliminated in the semi-finals by Magill-Smith of Princeton, 2-6.

In other doubles matches, Patrick-St. Peter lost 3-12 to Jennings-Rawls of Princeton, and Cooney-Ruby were downed 1-12 by Reese-Cooley of Penn.

Teams participating in the tournament included Harvard, Princeton, Cornell, Columbia, Army, Navy, and Penn.

### How They Did

#### Golf

MIT (V) 4, Rhode Island 3

#### Cross-country

MIT (V) 29, RPI 41, WPI 56  
RPI 19, MIT (F) 46, WPI 78

#### Soccer

MIT (V) 2, WPI 0  
Trinity 3, MIT (V) 0

#### Sailing

MIT (V) placed first in Denmark  
Trophy at Coast Guard

#### Baseball

MIT (V) 7, BU 4  
MIT (V) 6, BU 5

#### Tennis

MIT (V) placed 5th in ECAC

### On Deck

#### Wednesday, October 7

Soccer (V)—Harvard, Home, 3:00 pm

#### Friday, October 9

Golf (V)—Rhode Island and Vermont, Away, 1:30 pm

Golf (V)—ECAC Qualifying (thru Saturday), Burlington, Vt.

#### Saturday, October 10

Cross Country (V)—Springfield and Williams, Home, 2:00 pm

Cross Country (F)—Springfield and Williams, Home, 2:30 pm

Sailing (V)—NEISA Sloop Championship, Elimination "A" at Coast Guard

Soccer (V)—Middlebury, Home, 2:00 pm

Soccer (F)—Connecticut, Away, 10:00 am

#### Sunday, October 11

Sailing (V)—Wood trophy at Brown

Sailing (F)—Hexagonal at MIT

#### Monday, October 12

Sailing (V)—Oberg trophy at MIT

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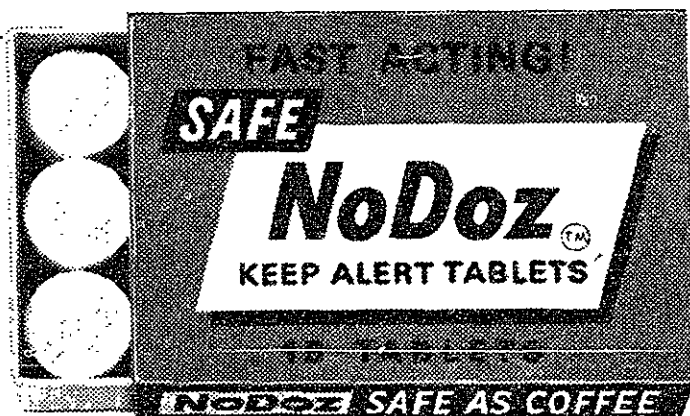
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## Soccer team wins season opener; Defeats WPI, loses to Trinity

The soccer team opened its season with a 2-0 victory over WPI and a 3-0 loss to Trinity. On the whole, the Techmen had nothing to be ashamed of, and MIT's soccer fortunes seem definitely on the upgrade.

Both MIT goals in the WPI game were scored by Captain Ed Roberts '65. The first came late in the first period after a sustained attack had kept the ball in the WPI half most of the time. Although WPI had a strong wind in their favor during the second period, Tech's excellent defense held them scoreless. Center half-back Savitt Bhotiwihok '66 kept the ball from penetrating too deeply into our territory with his long kicks that traveled half the length of the field.

The Techmen started the second half with a tremendous drive which ended with our second goal. A pass from Mohamed Chikkaoui '65 across the mouth of the goal enabled Roberts to push the ball right by the goalie.

WPI kept substituting their

players throughout the game while MIT's small squad had to play almost continuously. Tired by their efforts, MIT allowed WPI to score late in the third quarter.

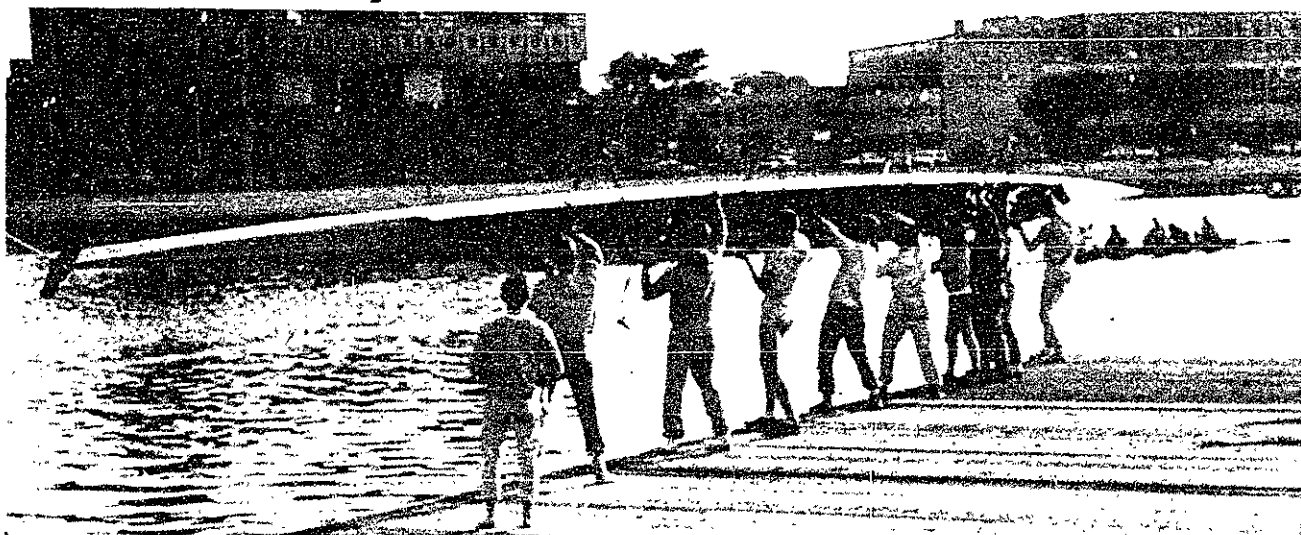
The WPI goal seemed to spur the Techmen on to even better play. In the last quarter, again with the wind against them, the Tech booters played excellent defense, keeping WPI scoreless throughout the entire period.

MIT lost to an excellent Trinity team by a score of 3 to 0. Trinity scored their first goal midway through the first period and their second shortly afterward on a penalty inside the goal area. Held scoreless in the second quarter, they returned to get their third goal early in the second half. The last period was a series of attempts to score by both teams, with both coaches playing most of their reserves.

	Monday, Sept. 28		R	H	E
B.U.	201	000	1	4	2
MIT	101	203	X	7	4
	Thursday, Oct. 1				
B.U.	055	000	0	0	0
MIT	200	004	X	6	1

## Fall Practice

"Down to your waist . . . down and out."



. . . orders an MIT heavyweight cox to start off the fall rowing season. Crews have been turning out every evening since registration day and are optimistically looking forward to another fine season. The varsity heavies, who have lost five of last year's regulars, are re-shuffling the boatings determined to better last year's record. The lightweights, faced with the loss of seven of their varsity oarsmen, are pleased with their progress and expect to more than match their winning record of last spring.

## 7-4, 6-5 victories

## Improved baseball team shocks BU twice

By John Schwarz

The Tech varsity nine, smarting from last spring's dismal 2-15 record, and sporting a new host of fine eager sophomores, rose to the occasion last week and stunned Boston University twice, 7-4 on Monday and 6-5 on Thursday.

Bob Yanus '65 and Rick Papenhausen '67, ably handled the pitching chores in both games, aided briefly by Ralph Cicerone in the Thursday game. Monday saw B.U. jump off to a quick 2-0 lead in the first inning, but Papenhausen quickly settled down and struck out the side.

The Terriers still led 3-2 going into the bottom of the fourth, but a Tech rally, sparked by sophomore Mike Ryba's triple, netted

the Beavers two runs and put them ahead to stay. All seven Tech runs were scored by the top third of the batting order — two by sophomore first baseman Jeff Altman, three by Ryba, and two by Papenhausen.

Thursday's game was a real squeaker, with base hits being at a premium; B.U. was able to muster only four safeties and the winning Techmen got just one, a triple by Papenhausen in the first inning. The Terriers led 5-2 as Tech came to bat in the sixth but the B.U. pitching staff suddenly couldn't find the plate and a walk — followed by an error, four more walks, a hit batsman, and another error — gave MIT four unearned runs and the ball

game — without the benefit of a hit.

This auspicious showing in the first two games of the four-game fall season points ahead to a much-improved 1965 record. The pitching staff fanned seventeen B.U. batters in the two games without the aid of last year's two mainstays, Larry Calof who transferred, and Jack Mazola '66. In addition, the class of 1967 has furnished much new talent, and at least five sophomores seem likely to nail down starting assignments.

Last chance to catch the resurgent Tech squad in action this fall is tomorrow afternoon, October 8, at 4:00 p.m. on Briggs Field against the University of Vermont.

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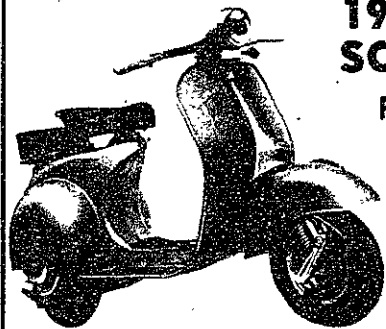
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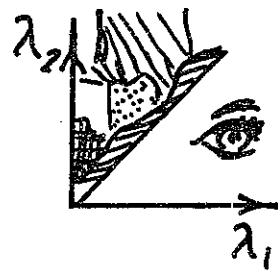
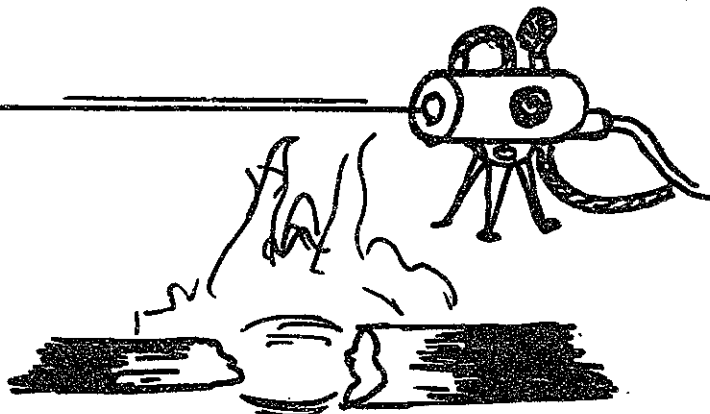
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SALES BOOTHS IN

BUILDINGS 1 & 2



All shoot in 70's

## Golfing squad victorious over Rhode Island U.

By Gerry Banner

For the first time Coach John Merriman can recall, all seven members of the MIT golf team broke 80 Tuesday, Sept. 25. The Techmen shaded Rhode Island in a return match and thus avenged their earlier setback.

Pete Lubitz '65 led the team with his second straight 75 and individual victory. Other Tech victors were Dick Shoemaker '65 with a 76, Al Poegler '65 also with a 76, and Dave MacMillan '67 with a 79. Playing in the sev-

enth position, Al Poucher '67 shot a brilliant 75, but a bogey meant defeat for him on the 19th hole. Captain Tom Hedberg '65 with a 77 and Ron Olson '67 with a 78 had fine showings in losing efforts.

At a golf rally last Wednesday, Coach Merriman talked with prospective members of the spring Freshmen and Varsity teams. The golf team faces its next challenge at the Eastern Collegiate Championship Qualifying Monday, Oct. 12.

## League races tight

### Five IM squads roll on unbeaten

By Art Perlman and Mark Helfand

The second week of intramural football closed with teams in each A division still undefeated. No race is as yet decided, however, and next week's play will determine which teams enter the championship eliminations.

Quarterback Tom Bush '66 threw four touchdown passes and ran for two more to lead Phi Delta Theta to a 39-0 romp over Alpha Epsilon Pi. The Phi Deltas and Beta Theta Pi both undefeated clash next week in a game that will decide who goes into the class A semi-finals.

The Phi Deltas did most of their scoring in the first half. Den Sievers caught three of Bush's TD tosses and Bob Wiley caught the other. The highlight of the game was one of the passes that Sievers caught that went all the way for sixty yards.

#### Delts win again

Delta Tau Delta extended its record to 2-0 with an 8-7 victory over Grad Economics. The game, fought mostly in Grad Econ. territory, was actually not as close as the scoring indicates.

Delt scoring came on a blocked punt safety by Bill Kosinar '66 and Garland Taylor '67, and a TD pass to Tom Larsen '67. Speedy Mike Taussig scored the game's only touchdown for Grad Economics on a delayed pass which caught the Delts off guard. Carl Beigie followed with the extra point. Joe Dickey '66 made the play of the game with a brilliant, picture book interception that saved the game for the Delts.

#### SAE has perfect record

Also remaining undefeated was Sigma Alpha Epsilon by virtue of its 14-6 victory over Delta Upsilon. The Sig Eps scored on two bombs thrown by Fred Souk '65 to John Mazola '66 and Don Ruthford '67. In addition both were credited with an extra point apiece. SAE led all the way but the game tightened late in the third quarter when Pat Dawe '64 scored on a short pass making it 7-6 in favor of the Sig Eps. The game was basically a defensive battle with both offenses well contained. A few timely in-

terceptions by each team halted potential scoring threats.

#### Theta Chi, Westgate tie 6-6

Westgate and Theta Chi battled to an exciting 6-6 double overtime. Quarterback Tom Franzel '66 drove his team 30 yards and carried the ball around end five yards to give his team a 6-0 first quarter lead. The all important extra point was missed on an incomplete pass attempt. Westgate did not score until the third quarter when a 10 yard TD pass to Paul Croce capped a fourty yard drive. Again the PAT attempt was missed on an incomplete pass.

The game was a defensive contest in which the big Westgate line was continually stopping Theta Chi from scoring from within the five yard line.

#### Lambda Chi over Sammies

Lambda Chi Alpha overpowered Sigma Alpha Mu in a rough 12-6 decision. Lambda Chi did all its scoring in the first half as Tony Pasquale '66 and Bill Chotkowski '67 tallied six points apiece. The Sammies came back late in the third quarter with an interception and a TD drive that ended with a 15 yard pass from Stu Nemser '66 to Rich Palmer '66.

Gusty winds prevented a strong passing game as both teams were intercepted three times. Lambda Chi was forced to rely on a strong up-the-middle running attack.

#### Burton takes Grad House

Behind Hal "Chip" Hultgren '66 the Burton "A" team swept to an easy 32-6 victory over Grad House. Operating from the quarterback spot Chip ran for three touchdowns, threw for two others and scored an extra point as well.

The Burton's rebounded sharply from last week's tough 13-12 loss. Lorne Mendell scored Grad House's only touchdown which came late in the game. Other scorers for Burton House were Ernest Eich with seven and Sid Everett with six points.

#### "B" league scores

Saturday "B" league play included three shutouts. Phi Kappa Theta smothered Chi Phi 35-0, Grad House Dining trounced Baker "B" 27-0 and Zeta Beta Tau pinned a 15-0 loss on Senior

# Sailors first in Danmark Trophy

By W. Thomas Compton

The Tech sailing team grabbed the lead on the first race and never relinquished it as they stormed to victory for the Danmark Trophy. This makes their third straight without defeat.

#### Sailors stretch streak

Since Coach Duplin took over last fall, he has put together an open ended streak of eleven. They won the last three regattas last fall, five in the spring for an undefeated season, and the three so far this fall. Over the summer they missed at the National Championships and only came in third. The Engineers rode to victory in International 12 Dingys captained

by Terry Cronburg '66. Ed Shaw '65, Don Schwanz '66, Chet Osborn '67, Tom Maier '67, and Fred Kern '65 rounded out the six man team.

#### Cronburg high-point skipper

Cronburg was man of the day as he was high point skipper in class A with 125 points. This was 92% of the possible points—a fantastic percentage. Out of his eight races, he had three firsts, three seconds, a fourth and a sixth. On one race, he had a good fifty yard lead so the officials went into the boat house to add up the points. When he crossed the line, there was nobody to announce it so Schwanz grabbed the mike and said, "Number ten, MIT. Well done." Needless to say this created a little excitement as officials came running out to the line.

The middle of the starting line was favored—a very rare occurrence. Usually one end has an advantage by being into the wind, but not so last weekend. The medium to heavy winds created a lee behind a building at one end, and at the other end was a bad current.

This makes the first time in ten years that MIT has won the Danmark Trophy. They broke

Coast Guard's streak at three this race, the best competitor from New England came, and were decisively beaten by the Engineers. Later on in the season Brown and Coast Guard should prove to be Tech's toughest competition.

Next week the sailors see action in three meets. On Saturday is the N.E.I.S.A. Sloop Championship, Elimination "A" at Coast Guard. Then on Sunday they compete for the Wood Trophy. Monday MIT hosts Oberg Trophy races on Charles.

The freshman team sees its first action of the year next day as MIT will host the Hagonal. So for some fine sport get out and watch the sail teams next weekend.

The order of finish in the Danmark Trophy:

- 1st MIT
- 2nd Brown
- 3rd Coast Guard
- 4th Dartmouth
- 5th Cornell
- 6th Duke
- 7th Northeastern
- 8th Wayne State
- 9th Harvard
- 10th Boston University
- 11th Boston College
- 12th King's Point
- 13th Stevens
- 14th Trinity
- 15th University of Toronto
- 16th Wesleyan



Photo by Saul Moaalem  
Al Tervalon's one-handed catch of a Dick Morgan '65 pass helps Phi Kappa Theta romp 35-0 over Chi Phi Saturday.

House. Other Saturday action included Tau Epsilon Phi's lopsided 57-6 romp over Phi Beta Epsilon and an 8-8 tie between Pi Lambda Phi and Lambda Chi Alpha that will have to be replayed.

Eight "B" league games were played Sunday. Sigma Phi Epsilon ripped East Campus 39-12, Grad Management Society shut out Alpha Tau Omega 25-0, Burton House "B" blanked Theta Xi 20-0, Delta Kappa Epsilon edged Student House 7-0, Sigma Chi shaded NRSA "A" 12-6, Phi Kappa Sigma outscoored NRSA "B" 26-18 and Phi Sigma Kappa topped Theta Delta Chi 15-7. Also Beta Theta Pi defeated the Baker House "A" team 1-0 in a forfeited match.

DIVISION A		
League I		
Lambda Chi Alpha A	2	0 0
Sigma Alpha Epsilon	2	0 0
Delta Upsilon	0	2 0
Sigma Alpha Mu	0	2 0
League II		
Beta Theta Pi	2	0 0
Phi Delta Theta	2	0 0
Alpha Epsilon Pi	0	2 0
Baker A	0	2 0
League III		
Delta Tau Delta	2	0 0
Burton A	1	1 0
Grad Economics	1	1 0
Grad House	0	2 0
League IV		
Phi Gamma Delta	1	0 0
Theta Chi	0	0 1
Westgate	0	1 1
DIVISION B		
League V		
Zeta Beta Tau	2	0 0
Senior House	1	0 0
Phi Gamma Delta B	0	1 0
League VI		
Grad House Dining Staff	2	0 0
Baker B	1	1 0
Phi Sigma Kappa	1	1 0
Theta Delta Chi	0	2 0
League VII		
Grad Management	2	0 0
Alpha Tau Omega	1	1 0
Kappa Sigma	0	1 0
Sigma Nu	0	1 0
League VIII		
Sigma Chi	2	0 0
NRSA A	1	1 0
Lambda Chi Alpha B	0	1 1
Pi Lambda Phi	0	1 1
League IX		
Delta Kappa Epsilon	2	0 0
Phi Kappa Theta	2	0 0
Student House	0	2 0
Chi Phi	0	2 0
League X		
Tau Epsilon Phi	2	0 0
Bexley Hall	1	0 0
Baker C	0	1 0
Phi Beta Epsilon	0	2 0
League XI		
Sigma Phi Epsilon	2	0 0
East Campus	1	1 0
Phi Kappa Sigma	1	1 0
NRSA B	0	2 0
League XII		
Nuclear Engineering	2	0 0
Burton B	0	1 0
Theta Xi	0	1 0
Phi Mu Delta	0	1 0

## Tech harriers take first

By Armen Varteressian

The MIT cross-country team triumphed over opponents from RPI and WPI last Saturday in Troy, N.Y. The Techmen led the pack with a score of 29, followed by RPI with 41 and WPI with 56. Tech harrier Sumner Brown '66 took honors in a field of 27 by running the 4.68 mile course in 25:56. Brown's time will stand as a course record since it was the first time the new course had been run.

#### Wesson OK after collapse

The four other Techmen contributing to the score were Bill Purves '66 (4th), Rob Wesson '66 (5th), Dick McMullin '65 (7th), and Don Raab '67 (12th). Wesson, after running in third place throughout most of the race, tired and dropped to fifth in the final minutes. After finishing he collapsed, and was treated for heat exhaustion. Wesson will be able to compete, however, in the MIT-Springfield meet this Saturday, October 10.

Top man for WPI was Paul who placed second 19 seconds behind Brown, while RPI's low man was Stepp, in third place 34 seconds back.

The MIT freshman team placed a poor second in their competition with 46 points, far behind RPI's 19, but far ahead of WPI's 78. Best frosh time was posted by RPI's Bell with a 19:41.2 in 3.44 miles. Best Tech time was turned in by Dan Hoban, who placed second a short 8 seconds behind Bell. Except for Hoban the first 7 places were held by RPI runners.

Next engagement for the MIT long-distance men will be Saturday vs. Springfield College. The Techmen should be faced with a challenge from a perpetual good team.

## Soccermen will try to foil Harvard New scoreboard dedicated at halftime

By Dave Carrier

MIT meets Harvard in what will undoubtedly be the most hotly contested soccer game of the season today at 3:00 p.m. on Briggs Field. Three years ago, Harvard beat us, 4-3. Two years ago, they wouldn't play us because we weren't enough competition for them. Last year, they kindly condescended to meet us again; it was to be a warm-up game for them. But it was a disaster as we dominated the play to win 3-2. Regardless of how the soccer team fares against other schools, Harvard is the one team to beat.

Look for outstanding performances by Eddie Roberts '65 center forward, Mohamed Chikhaoui '65, inside left, and Savitra Bhotiwadka '66, center halfback. We've got a lot of talent this year, but they need your help. Come out and cheer your team on to victory.

#### Scoreboard dedicated

In addition, the new Outdoor Scoreboard, presented to MIT by the T-Club, will be officially dedicated at halftime. Dean Wadleigh and Mr. Smith, Director of Athletics will be on hand for the ceremony.

## Intramural Results

### Tennis

- Sigma Alpha Mu 4, Phi Sigma Kappa 1
- Burton B 3, Sigma Alpha Epsilon B 2
- Burton D 5, Delta Psi 0
- Theta Delta Chi 5, Burton E 0
- Tau Epsilon Phi 5, East Campus E 0



Photo by Saul Moaalem

Sophomore Ray Ferrara's brilliant interception halts a Westgate touchdown drive at the Theta Chi 10-yard line. The IM game ended in a thrilling 6-6 double overtime deadlock and enabled the Fijis to take an undisputed first place in League IV.

Second-class postage paid at Boston, Massachusetts. The Tech is published every Wednesday during the college year, except during college vacations, by The Tech, Room 56-211, Walker Memorial, 142 Memorial Drive, Cambridge, Massachusetts 02139. Telephone (Area Code 617) 552-6555, ext. 564-6900 extension 2721. United States mail subscription rates: \$2.75 for one year, \$4.25 for two years.