Continuing arms race menaces security—Wiesner

I can, Dr. Jerome B. Wiesner, and each year the potential arms race menaces security—Wiesner—into oblivion."

"For solutions (to the arms race) President Kennedy, added: "Even Dean of the School of Science and other funds at $34.9 million. Research, $84.8 million. M a j o r laboratories and special re-

"$32.3 million; and expenses of general departmental research, $32.0 million, expenses of special laboratories, stated Major Jack D. Alexander, Commanding Officer, Air Force. First to receive schol-

"The earth's Environment. Talks were divided into five sessions on topics related to the earth. Discussion followed on "The Cosmos. Ocean circulation, waves and long-period phenomena were de-

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

"That is a 'dubious experience.'"

"Mr. David J. Tobin has been appointed Institute Secretary for Foundations. Mr. Tobin will have the responsibility for planning and soliciting gifts and grants from individuals and foundations, and will serve as the official representative of MIT to faculty of the Institute when appropriate. In addition, he will conduct the annual fundraiser, serve in the Development Council.

"Mr. Tobin, of Belmont, received his S.M. degree in Chemical Engineering from MIT in 1964. Recently, he has served as Vice President and Secretary of General Vacuum Corporation.

Mr. Tobin gets new post

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

Scholarships provided

A bill authorizing a new Reser-

November 1965, the Honeymoon in Size of the Project

"The effect these proposals will have on the Army is not yet certain, according to Colonel James W. Gilbird, Head of the Depart-

Conférence had four main topics

The International Conference on the Earth Sciences, given at Cen-

October crash of the week

On October 19 for block sales $3.50 per ticket; and on October 21 for individual tickets $1.50 each. The show will start as scheduled, Saturday night activities will end.

October crash of the week

A widespread network of torrential rain is shown to be plussing $89.0 million in United States government bonds, and at least one million dollars in the market per share, and at least one quarter million in cash or stock. Supplies for more than 30 million dollars.

Supplies contributed $6.5 million. In addition to the Institute in addition to $1.5 million in scholarship money which also went to cover costs. Donations and other facilities netted $47 million.

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The Earth's Environment:
Solar system discussed

The Earth's Environment was the Wednesday morning center-
piece of the meeting. Dr. Bengt G. D. Stromgren, Profes-
sof Astrophysics at the Institute for Advanced Study at Princet-
on, and Dr. John V. Harrington, Director of the MIT Space-
Research Laboratory, discussed "The Sun and Solar Physics."
Dr. Leo Goldberg held the assembled scientists that the long-
range goal of solar physics is "to construct a model of the sun that agrees with observa-
tions and is based on the known laws of physics." He ended his talk with the surprise that the field has an "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 under-
standing. 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 our sun, especially in magnetic fields.

(Please turn to Page 15)
Mad killer uses MIT student's car in recent Andover murder-rubbery

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

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 Hanscom Field facility.

It will house a precision, 12-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. L. 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 20 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 300 mile winds.

Since the radome was built without scaffolding, workers stood on 90 foot "towers," suspended from an oil well drilling tower. The sensitive radar system will be a powerful tool in satellite communications, space surveil-

ance, 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-thousandth of one degree.

The entire research facility construction cost was estimated at $2,800,000.

Annual dinner marks Air Force founding

The Department of Air Science held their Annual Dinner 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 school at MIT, and distinguished guests.

Major General Richard 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 Roosler 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 three weeks for 2,500 patients, the hospital has a great need for help 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.

Roosler commented that in the past, it was found that beside benefiting 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.

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

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Oct. 2 — Alienation and Modern Man
Oct. 9 — Absurdity and Modern Man
Oct. 16 — Guilt and Modern Man
Oct. 23 — Responsibility and Modern Man
Oct. 30 — Anguish and Modern Man
Nov. 6 — Consciousness and Modern Man
Nov. 13 — The Self and Modern Man
Nov. 20 — The Individual and Modern Man
Dec. 4 — History and Modern Man
Dec. 11 — Death and Modern Man

FRIDAYS, ROOM 3-133
All Welcome
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 responsible use of these funds is important, and 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 is some 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 concerned; but the Finance Board has, at a point of policy, resolved against the direct subsidy of political groups, for several reasons. Finboard money comes ultimately from the generally 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 practical 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 condition and to further campus action and school spirit. There are other organizations in much more need of financial assistance; there are also campus causes which are of more 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 staff service offices 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 there are more students who wish to participate in the political side of higher education and there are other forms of financial assistance increases.

In addition, many national magazines and guidance counselors involve the student and his parents that the first year requires considerable adjustment to college life. Some go beyond the general warning and specifically stress that the new student not even consider working 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 income in financial assistance does not help open the door to students in the least. The Dining Staffs, in particular, require a large number of students. After the normal rate of attrition, a nucleus of trained personnel is available to assume the student management 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 even maybe 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 deserves renewed attention. For the groups that depend upon working students, the problem is immediate. It is likely that conditions will improve with the right form of corrective action can be applied. Those students that are only marginally interested in working will probably quit before exercising the opportunity to work. Most students achieve previous levels of performance.

Resignation

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

by Perry Beil

Probably your first contact with Student Opportunities Committees, at least directly, was through the information sheet included in all returning students' registration material. However, behind the banal phrases, the student-developed student committee has been working to secure greater opportunities for all MIT students in the student employment market.

Student Opportunities Committee grew out of the desire by many students for more and better summer jobs. There has been cooperation with the Student Placement Office and its director, Mr. Thomas W. Harrington, last year a letter was sent to some 300 companies stressing the benefits which all

our students (underclassmen as well) have to offer—both academic and personal. This year the group is ready underway and is in being early.

We have since branched out into several other areas co-ordinating the efforts of students and faculty, and working with those of the administration and development groups. New ideas and projects both creating new opportunities and stimulating old opportunities so that students can take advantage of them.

Our permanent job sub-committee is now doing a great deal of work, recognizing the vast amounts of material available to graduation seniors and gradu-
Letters to The Tech

Headline cited as "unfair"

To the editor:

A conspicuous issue in this year's presidential campaign in the alleged "uniformity" of the news media to the President's Richie. It is with considerable reluctance that I impugn The Tech, which previously had exhumated admirable and conspicuous impartiality.

The article in question appeared in the September 30 issue under the question headline, "MIT scientists like LBJ?" As I am sure you should have known from high school journalism, the headline should capitulate the principal facts of the article-in this case, the formation of a pro-Johnson committee. The headline was improperly formed, 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 the President for his "humanitarian" policies, which have been described as "cheat goodness," is scarcely a reason, despite "the fact that the author, besides trying to

We all make mistakes...

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1. What's new in finance?  
I think I found a real sleeper.

2. How about letting an old buddy in?  
Don't spread it around, but a very dear friend of mine Uncle Ed-said to me confidentially that he heard from a reliable source that Chippewa & Wabash was going to make an offer to dig into a situation and get all the facts.

3. Chippewa & Wabash? They just sold bankruptcy proceedings.

Uncle Ed didn't mention that.

4. What's more, the president of the company is to be on his way to Brazil.

How come you know so much about it?

5. Look, if you're going to be a securities analyst you have to know what's going on and get all the facts.

I thought your field was paleobotany.

6. I just signed up for a terrific job in Equitable's Securities News Department back in March with an M.B.A. in finance, a guy can start in a securities analyst and work up to a top investment management job.

Maybe I should be in paleobotany.

For information about Living Insurance, see The Man from Equitable. Complete information about career opportunities at Equitable, see your Placement Officer, or write to Edward D. McDougall, Manager, Manpower Development Division.

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The TECH  
WEDNESDAY, OCTOBER 7, 1964

Page 5
Mock election spurs debate

Goldwater

By David F. Nolan

Twenty days from now, there will be a mock presidential election here at M.I.T. For the first time, each of you will be given the chance to express your preference in an actual election by voting for either Senator Goldwater or his ideal, 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 one that is so often confused between the two philosophies. These are: the philosophy of limited government, represented by Senator Goldwater; and the philosophy which emphasizes collective responsibility, represented by President Johnson.

Obviously, this is a matter of broad generalization, and neither of the two men represents either of the two philosophies in their entirety. Nevertheless, the choice being offered is between a philosophy of individualism, between freedom and collective responsibility.

At the moment, despite what some people are saying, Goldwater’s chances appear to be good. We are taking no chances on the possibility of a split ticket. No one wants a split ticket. If anyone does, we should join the MTTs; those less dedicated are urged to at least stop by the booth in Building 10 to pick up 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 MTTs are urged to attend, and anyone is welcome. At the meeting, campaign plans will be considered. If you can’t make the meeting, don’t despair. By the time you read this, we will have one less week ago this (at the time of this writing), it can proudly proclaim a har-}-ing organizations. New members and campaign participants will be accepted at our booth, in the Bush Room at 10.

On Thursday, October 8, at 8:30 p.m., an Open Meeting for all supporters will be held in Room 10-250. You are pleased to announce that Prof. Leslie Ostrow of the MIT Department of Physics, and Prof. E. O. Nelson of the Massachusetts Institute of Science and Engineers for Johnson and Humphrey, will appear as speakers. The Executive Committee will report on our recent activities. In addition, during the coming month we will present a panel of distinguished scientists and educators who will discuss the coming political election. It cannot be overemphasized that because the candidates represent such different political and social philosophies, we can hardly 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 continue 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 the flag wavers larger than any of the forces that the nation currently faces? The contrast, however, is evident to all.

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Eastman Kodak grants $44,000

MIT has received a grant of $44,000 from Eastman Kodak under their "ad to education" program for 1984. 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, and in 1984, MIT received $55,000 in direct grants since 1985 in addition to over $123,000 in research grants from Kodak.

Committee elections for Spring Weekend

Spring Weekend is scheduled for April 23, 1985, this year. A committee for the event will be elected within the next three weeks. Interested students may contact Betty Hendricks in Litchfield Lounge, 51-110.

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Committee elections for Spring Weekend

Spring Weekend is scheduled for April 23, 1985, this year. A committee for the event will be elected within the next three weeks. Interested students may contact Betty Hendricks in Litchfield Lounge, 51-110.

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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, starring Eliza Riven, and the hit French review, "Zizi." 

Music in October includes performances at the Back Bay Theatre by Peter Seeger on the 5th and Roy Charles on the 13th. The George Shaw Quintet and the Serendipity Singers will be at the UU on the 15th.

Movie quality is on the upswing in October; highlights will be "My Fair Lady" the 26th and "Man with a Movie Camera." The Cannes' "Mediterranean Holiday" will open the 27th. New this week are "The Girl with the Green Eyes" and the French hit "Chris et Maude," to the Kennedy documentary. "Four Days in November." Several of these require advance reservations.

Allaying the situation. It is obvious to him that his hero is less in love with Andy, her toes don't curl when she thinks of him in the other hand, gives a positive reaction. In a complete change of pace, she loves-me, she loves-me-not battle stages.

There are some funny moments. The sight of a jet propelled harpoon gun background, is at ludicrous as the sight of Andy Williams, Robert Goulet wishing they could have just one gin and tonic on a more glamorous set.

The October schedule is familiar, the audience set place and sing. For someone who has at last found the man (Andy Williams) when she is called to her dying relative, he hero (or soundrel) over the wall. He is completely unable to act. She requested to bring her beloved chicken is almost as ludicrous as the sight of Andy Williams, Robert Goulet wishing they could have just one gin and tonic on a more glamorous set.

In order to see the performance, it is recommended that the audience set place and sing. For someone who has at last found the man (Andy Williams) when she is called to her dying relative, he hero (or soundrel) over the wall. He is completely unable to act. She requested to bring her beloved chicken is almost as ludicrous as the sight of Andy Williams, Robert Goulet wishing they could have just one gin and tonic on a more glamorous set.

Making the Scene

TUESDAY NOVEMBER 10TH, 1965: THE TIMES SQUARE OPERA COMPANY presents, "ANTONIO AND THE BALLET DE MADRID" under the direction of JERZY GROCHOWSKI. The performance will be held at the Lyceum Theatre, 841 Broadway, New York, New York. The show opens on October 15th and runs through November 20th.

The opera is set in Spain and features a cast of international dancers and singers. The libretto is by Jerzy Grochowski and the music is by Georgy Sviridov. The opera is based on a true story of a young Spanish dancer who becomes involved in a political intrigue.

The opera has received critical acclaim and is considered to be a significant contribution to the history of modern opera. It is also known for its innovative staging and use of live orchestral music.

The opera is performed in both English and Spanish, and is suitable for all ages. It is recommended for opera lovers and those interested in the history of modern opera.
By John Chater

A Touch of the Foot," by Elia Kazan, is a tough, even though the only
thing that is true about it is the
inclusion of a scene in which the
*star* Melody, an innkeeper in a
village of Tenerife, Spain, was
forced to marry into the family of
the Marshal of Tenerife, Raquel.

The commandant officer had
ordered him to marry her for his
bravery. For reasons which O'Neil
left unexplained he later left Spain
and set up an inn in New York.

Melody lives in a dream. He
remembers a rough-and-tumble
friendship in the days of Andy
Jackson, the redoubtable hero of
the War of 1812. His music.

The major goes to war over
Melody's "honor" and is sent
back to New York by the police.
Stumbling home drunk, he chases
his thurghored mare to the
playhouse to watch a bullet through
her head. Only an experienced
jockey does an appropriate job.

Melody is assassinated by the
symbolic army for the play to come
to a successful end, and reject his foolish pride.

To see this process of self-
realization in motion, O'Neil
never has a fairer Elizabethan
involve Melody's daughter
and the poet's rich Yankee fa-
mother. And the poet's rich Yankee fa-
mother.

The Irish in a manner which

reminds one of the best of
O'Neill's best. The Irish is not
O'Neill's best. The Irish is a
modern drama, the Irish is
delightful, by far the best of the
best of the best. Director Mi-
Chael Murray must be commended
for his staging of it. The result
at the Charles Playhouse
is to give the impression of a few
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 con-
trast: the Irish and the Spanish.

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The Irish is not O'Neill's best.
Research in girl-hunting

Equipment for Tech tool with an urge to meet girls (fill in school name) girls telephone; copy of "Social Brewer" pen and pencil; coherent line. Theory: most girls like to meet Techmen in hopes that Techmen and friends will come to mixers.

Experimental procedure: Call random dormitory of school. Ask for Social Chairman. Ask her (or the 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 what 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 Whelock mixer and the Simmons mixer. Apologies to those of you who missed them.

Betsy Hall's representative cornered me to inform me that that "Burton mixer" we reported last week was indeed a Betsy mixer held in Burton. This explains why those people contacted in Burton Hall had no information about it. The posters around the Institute did not contain this bit of information. I'm afraid you've seen that. Indeed, Cherchez is far from infallible. Let's see what's 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 Marlyn Freundlich, at 322-2300. The mixer is at 8:00, and in theory you can't get in without an invitation.

East Campus and Baker House will both hold the M.U.T. 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. Make up your own mind.

Wednesday, at least at first impression, is jolly-up night at Radcliffe in 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 Camstokes, Holmes, and More Hall. 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 housing 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 these dorms.

Finally, MIT and BU Hillel will hold 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. Read in your specifications for the transistor of your dreams.

Max Beckmann, French Art, Oriental culture on exhibit at Museum of FineArts

Boston's Museum of Fine Arts has just opened an exhibit by the great German contemporary, Max Beckmann. The collection of 368 paintings, prints and watercolors is the first major U.S. showing of the artist's work since his death in 1950.

Becckmann'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 work will show that the principles of his art are recommended before seeing the exhibit. The brevity of his many self-portraits reveals part of the internal struggle that made his life and his work interesting.

Becckmann'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 Barbioun masterpieces seem to fit naturally into a home. The Moris and Rauschen 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 restored golden carvings representing the goddess Nike, a Fourth Century B.C. masterpiece. The museum offers education and enjoyment for any taste; reproductions of appealing works are available.

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Walk on the Wild Side Jp '64

Beginning Friday The Thirteenth

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Movie Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Movie</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday</td>
<td>'A Shot in the Dark,' 1:09, 3:00, 5:00, 7:05, 9:10.</td>
<td></td>
</tr>
<tr>
<td>Sunday</td>
<td>'The Silence,' 3:00, 6:25, 9:55; '6.500,' no times available.</td>
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Cafe Orleans

A European Coffee-House

320 Charles St., Boston

Open from noon to 11:00

Coffees, Teas, Chocolates, Sandwiches, Pastries

Exhilarating... Masculine... Fresh as the ocean

...that's the way it is with Old Spice After Shave Lotion! 1.25 and 2.00

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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 Octo-
ber 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 H. Harrison, emeriti 
Dean of Science, has been awarded the CER. 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 deter-
nation of temperature and other properties of matter that are otherwise unmeasurable.

D. Webster appointed new housing manager

Mr. Daniel G. Webster has been appointed as a consultant to the Committee on On-Cam-
pus Housing to fill the vacancy occasioned by the recent passing of Mr. Henry K. Dow. 

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

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

William T. Struble named to editorship, Technology Review

Appointment of William T. Struble, associate editor of Technology Review, a monthly pub-
lished by the MIT Alumni Association, was announced by Volter Torrey, editor and publish-
er.

Struble came to MIT in 1959 as an editor of the MIT Alumni.

Productivity up, too

Continuing arms races menace security—Wiesner

(Continued from Page 1)

The research budgets have increased enormously over the past few decades and have been used to tremendous effect in the new fields of research, the Dean replied. 

Wiesner said that it is wrong to quantify the productivity of a science advisor, the Dean replied, Wiesner said that it is wrong to quantify the productivity of a science advisor, the Dean replied, Wiesner said that it is wrong to quantify the productivity of a science advisor, the Dean replied, Wiesner said that it is wrong to quantify the productivity of a science advisor, the Dean replied, Wiesner said that it is wrong to quantify the productivity of a science advisor, the Dean replied, Wiesner said that it is wrong to quantify the productivity of a science advisor, the Dean replied, Wiesner said that it is wrong to quantify the productivity of a science advisor, the Dean replied, Wiesner said that it is wrong to quantify the productivity of a science advisor, the Dean replied, Wiesner said that it is wrong to quantify the productivity of a science advisor, the Dean replied, Wiesner said that it is wrong to quantify the productivity of a science advisor, the Dean replied, Wiesner 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"I recommended all of them when I was in Washington." 

Research and Education 

Commenting on the Institute's 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 improving 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, he feels that MIT has productivity. While it is difficult to quantify the productivity of the research work, expensive lab-

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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.

Last on the program was Dr. A. E. Ringwood, Senior Professor of Geology at Harvard. He discussed 'Compositional and Chemical Changes of the Earth's Crust,' an advanced topic in the field of earth sciences.

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

After giving a historical review of research into the topic, Dr. Wasserburg discussed the present status of the work and the progress being made.

The final speaker of the conference was Dr. Walter M. Elsasser, Professor of Geophysics at Princeton University. He concluded with a discussion of the implications of the recent advances in the field of earth sciences and the future prospects for further research.

Earth Science Conference

Dr. L. V. Berkner, President of the Graduate Research Center of the Southwest and Director of its Earth Sciences Center, spoke on October 1 at the banquet commemorating the dedication of the Cecil and Ida Green Building.

Berkner spoke at banquet for Green Building

Speculated on earth sciences advances, future

It was anybody's ball game until the Olds F-85 came on the field. And suddenly, from coast to coast, there was only one car for the campus crowd. What makes the Olds F-85 such a performer? Well, start with the new Cutlass V-8 power. 315 horses of it! (Cheers!) New styling loaded with class! (Cheers!) Glamorous fun-loving interiors! (Cheers!) And much, much more besides! (Cheers! Cheer!) Find out what all the cheering's about. Rally on down to your Oldsmobile Quality Dealer's...
**Solar system discussed**

The first talk was presented by 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 Radiation Relations.’

The interplanetary medium, at Biermann, has long been said upon as a stationary environment, but this is not the case. The interplanetary plasma usually flows with a speed much faster than that of the earth. The final boundary between the sun and interplanetary space is magnetopause, said Biermann. This is the area out to two planetary diameters that 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 hydrodynamics 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 geo-physical oceanography, one of biological and chemical oceanography, and the third of physical oceanography.

The examination fee is $10. The admission test for graduate study in Business will be given November 7, 1964, February 6, 1965, April 3, 1965, and July 30, 1965. The exact date that applications must be received, check the individual test information booklets.

Applicants are encouraged to use the chances test for the admission test to the examination, unless they are taking the examination in advance of the test date. To determine the exact test date that applications must be received, check the individual test information booklets.

The testing calendar for the academic year 1964-65 is as follows:

The Graduate Record Examination will be given November 15, 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 $1. One afternoon test session will cost $1. If both the aptitude test and one advanced test are taken on the same day, the combined fee is $2. The admission test for Graduate Study in Business will be given November 7, 1964, February 6, 1965, April 3, 1965, and July 30, 1965. The examination fee is $10.

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See your Placement Officer; get our literature, details on our job openings, and sign up for an interview with our representative.

**Burton wins IM All-Sports**

Burton House ran away with the Intramural All-Sports Trophy awarded for supremacy in intramurals last winter. Their record 940.6 points put them far out of Baker House, who finished in second place with 612.5 points. They topped the previous record of 612.5 set by Sigma Alpha Epsilon (SAE) the previous year. Part of the reason for Burton House’s complete domination of the intramural program was their success in the first two events, the Intramural All-Sports Trophy and the third of physical oceanography.

The secret to success for Burton House was complete domination of the intramural program. They put 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 49 points. They picked up four first places in basketball, softball, cross country and rifle.

The second place for Baker House came on similar action, though not as concentrated. They were followed closely by Senior House with 571.1 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 in the individual events was Theta Chi with 413.5 points, barely edging out Phi Delta Theta with 406.0. The big point winners for Theta Chi were a win in javelin and seconds in basketball and hockey. The Phi Deltas scored their points first in swimming, second in softball, and a tie for third in touch football.

**Earth Science Conference**

Conference held for the first time in New York City, this conference was sponsored by the New York Academy of Sciences and the American Association for the Advancement of Science.

The conference was held in the Graduate College of the City University of New York, and the attendance was about 300.

Dr. Kurt V. Bernhoutt, Director of the Institute for Physics and Astronomy, Max-Planck-Institute for Physics and Astrophysics, spoke on the topic of "The Selection, Training, Promotion, and All Other Policies of the Company Affecting Employees are Based Upon the Qualifications of the Individual, Giving Equal Consideration to All Without Regard to Race, Color, Creed, or National Origin."
Meet begins Friday

Sports Car Club presents Orange Autocross

BY MARK WALLACE

The MIT Sports Car Club, composed of about 30 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.

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 College Athletic Conference Tournament. Although faced with stiff competition, the team tied Navy for fifth place, with Princeton winning.


On Deck

Wednesday, October 7
Soccer (V)—Harvard, Home, 3:00 pm
Friday, October 9
Golf (V)—Rhode Island and Providence College, Home, 9:30 am
Soccer (V)—Harvard, Home, 3:00 pm
Saturday, October 10
Cross Country (V)—Springfield and Williams, Home, 2:00 pm
Sailing (V)—NESCAC, Home, 1:00 pm
Sailing (V)—Connecticut, Away, 1:00 pm
Sunday, October 11
Sailing (V)—Needham, Home, 1:00 pm
Sailing (V)—Haverford, Away, 1:00 pm
Sailing (V)—Fairfield, Away, 1:00 pm
Monday, October 12
Sailing (V)—Sailboat trophy at MIT

CLASSIFIED ADS

SURFBOARD WANTED: 6’ 6” to 7’, Futures. Call 8-4889.

FOR SALE: 2 Board racers (15”) $150 each, used but well maintained. Call 8-4889.

CITY FURNITURE: cr. play, beans, 4 x 10, 1 formica b. $200. Call 8-4889.

RACQUETS RENTAL/RESTRUNG/SALE:

Tennis & Squash Shop
67A Mt. Auburn St., Cambridge—Tel: 2-7317

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Available to people between the ages of 15 days and 70 years who live or work in Massachusetts. You can keep SBLI wherever you move.

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LIFE INSURANCE DEPARTMENT
CAMBRIDGEPORT SAVINGS BANK
689 Mass. Ave., Cambridge—Tel: 6-2240—UN 4-2571

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Sailboat trophy at MIT

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FOR SURFBOARD WANTED:

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

The soccer team opened its season with a 2-0 victory over Trinity on Sunday afternoon. The Terriers had nothing to be pleased with, and MIT's soccer team was happy with the win.

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

The Teckmen started the second half with a tremendous drive, and Roberts was called over the mouth of the goal, which ended with our second goal. As both coaches played most varsity oarsmen, are

The last period was a series of missed opportunities by both teams, determined to better the upgrade. 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 an excellent Trinity train by a scoreless in the second period. The first came late with the wind against them, the Techmen still getting the best of their reserves.

Improved baseball team shocks BU twice

The baseball team is pleased with their progress and expect to do even better.

Improved base running by the Beavers two runs and put them ahead to stay. All seven

The Terriers led 3-2 going into the bottom of the fourth, but 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 Massola '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 re - surging Tech squad in action this fall is tomorrow afternoon, October 8, at 4:00 p.m. on Briggs Field against the University of Vermont.
by W. Thomas Compton

Golfing squad victorious over Rhode Island U.

By Gerry Bussner

For the first time in coach John Verhoef’s memory, the men’s golf team, caught the Delts off guard. Carl and Garland Taylor ’67, and a TD victors were Dick Shoemaker ’65 golf team faces its next challenge they missed at the Nati

abled the Fijis to take an undisputed first place in League IV.

The game was basically a de-

third quarter when Pat Dawe ’64

erford ’67. In addition both were

bombs thrown by Fred Souk ’65

dilon. The Sig Eps scored on two

Sigma Alpha Epsilon by virtue

play of the game with a brilliant,

ritory, was actually not as close

fought mostly in Grad Econ. ter-

over Grad Economics. The game,


Ty, N.T. The Whitins led the pack with a score of 290, followed by RPI with 315 and MIT with 330.

The first place score was 14 strokes better than RPI’s 354, but far ahead of Brown, while RPI’s low man was John Grillot with a 71.

After running in the third place, tied and dropped to fifth in the final standings. After finishing eighth the Invitational and 13th, wasn’t the best finish for Tech. We shouldn’t have been treated for best education. Wesson will be able to compete, however, in the MIT meet.

The game was a defensive con-

test in which the Sig Westigate

fifth yard line.

the PAT attempt

was missed on an incomplete

pass. The game was a defensive con-

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