

Three take out UAP petitions; Nineteen seek class offices

By Carson Agnew

Three candidates for UAP and 19 candidates for various other class officers have already taken out petitions for the undergraduate elections of Tuesday, Feb. 28. Petitions can still be obtained, but they are due in room 401 of the student center by 4 pm, Friday.

The Tech will accept and publish statements from candidates for either UAP or class president. UAP statements should not exceed 500 words, and president statements should not exceed 150. These statements must be typed and submitted to The Tech's offices (room 483 of the Student Center) by Tuesday, Feb. 21. They should be accompanied by a photograph of the candidate.

In the running for UAP so far are Bob Horvitz, '68, Richard Karash, '68, and George Phillips, '68. Horvitz is a member of AEPi, and Karash of Sigma Chi, while Phillips lives in Burton House.

Running for respectively permanent president and the Executive Committee of their class are Gary Garmon '67, and Dick Chandler '67, both of PGD.

In the Class of '68, Scott Davis of PDT is running for the presidency, while John Kotter (SPE) and Ray Paret (PLP) are running for Executive Committee.

Blood drive set by APO-TCA

Alpha Phi Omega, national service fraternity, and the Technology Community Association will be soliciting donations for the Red Cross blood drive to take place March 15-17, 20-23.

Solicitations start Monday

Donations for the campus-wide drive will be solicited from students beginning Monday. Bob Boyd '69 and Brad Cross '67, both representatives of APO, will be in charge of organizing solicitations in the dormitories; Jay Nichols '68 will oversee solicitations in the fraternities on behalf of TCA. It is hoped that they will reach a total of 1919 pints of blood.

Last year's drive drew 1717 pints of blood, which represented a record high for the amount of blood accumulated at any single location on the Eastern Seaboard during peace time. This blood drive is important to the MIT (Please turn to Page 15)

Back to high schools

Selected students assist public relations project

The Public Relations Committee of Inscomm and the Office of Admissions will conduct a joint project to better inform high school students about MIT. The project will take place during the MIT spring vacation and will involve MIT students going back to their old high schools.

Approximately two hundred fifty students were chosen to participate in the program, solely on the basis of membership in honoraries, activities, or student government at MIT. Letters have been sent out to three students informing them about the preliminary meetings to be held Wednesday and Thursday.

The Admissions Office will be in charge of scheduling meetings between those MIT students volunteering for the program and the high school students. High school guidance personnel and MIT Educational Counselors will be asked to sit in on the meetings.

Mark Mathis is running for reelection as President of the Class of 1969, and Russell Apfel (Burton), Bert Garrett (KS), Robert Schaeffer (Burton), William Berry (PLP), and Shelly Fleet (McCormick) are running for the Executive Committee.

Hopefuls in the Class of 1970 include Jeff Mills (PGD), for president, and Jack Confrey (SN), Harold Federow (EC), Pamela Whitman (McCormick), Joseph Schippert (TX), Phil Cochran (KS), Michael Titelbaum (SPE), and Bob Armstrong (PGD), for the Executive Committee.

Reading period extended

By Karen Wattel

Reading period has been extended for the spring semester on an experimental basis. In doing so, the faculty hopes to evaluate student use of the free period between the end of classes and exam week.

Papers still due Tuesday

Under the present system, classes end on Tuesday and exams begin the following Monday. This spring, students will have the whole week before exams free, as well as the week-ends on both sides. However, in order not to put undue pressure on courses with final papers, the paper due date will remain the usual Tuesday.

The faculty, which expressed "relatively little enthusiasm" for the plan, according to Secretary of Faculty Hartley, accepted the change as a basis for gathering comparative data. They will evaluate the lengthened period and come to another decision next fall.

SCEP polls

SCEP, which made the proposal to lengthen reading period to CAP which took it to the faculty on the basis of a poll it took last spring, will conduct polls now, and again after the spring reading period to find how the students used them. These polls will be given to the faculty to help them in their decision.

Reading period was instituted at MIT in the 1952-53 academic year to allow students "to integrate the work in their courses and to prepare for final examinations." It was seen as a way for more mature and interested students to maximize their learning opportunity on an independent basis.

Questions raised

Some of the faculty felt that the extra two days of formal instruction were worth more in class than out. Other considerations were concerned less with the actual length of reading period than with the form itself.

One important question seemed to be which group benefits most from a reading period. Bids were put in for humanities students (which is reminiscent of the Harvard system which ends reading courses before others to allow for further reading in the subject), upperclassmen (as more mature students, who should be able to manage the free time more usefully), and underclassmen (because they are more rigid schedules, especially at exam time).

(Ed. note: for SCEP's findings see p. 4.)

Eleven new members elected to Beaver Key; changes made this year

By Ted Nygreen

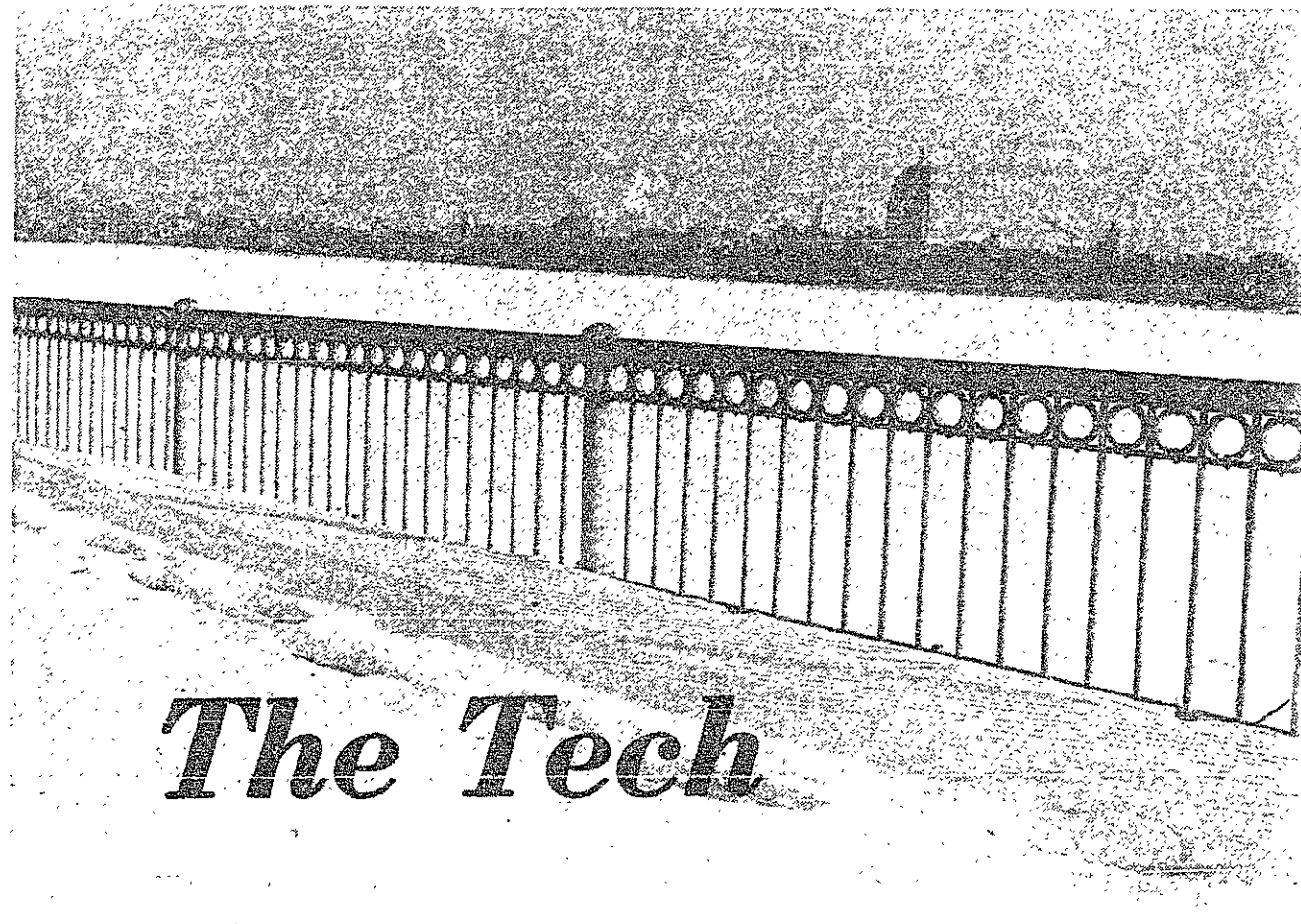
The Class of 1967 officially relinquished control of Beaver Key Wednesday night when they elected 11 members of the class of 1968 into the now Senior Activities Honorary. Having made the original revisions which transformed this group into a Senior Honorary, the outgoing members further revised the club's constitution.

Major changes include the election of only three officers henceforth, President, V-P (in charge of Field Day), and Treasurer, and the setting of the time for election of additional Juniors by these new members, which is to be within the two weeks after election of Inscomm's sub-committee chairmen.

The new members are:

Adebayo Ajadi
Gerry Banner
Herb Finger
Mike Harris
Bob Horvitz
Dave Jansson
Gordon Logan
John McFarren
Dave Peterson
Jack Rector
Joel Robinson

These Juniors were chosen on the basis of their outstanding performance in Institute activities, and we sincerely hope that they can continue the work of the Seniors in making Beaver Key a meaningful organization.



The Tech

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Five Cents

Killian made trustee of new EDC

By Cary Bullock

Two distinguished MIT people have been appointed officers in a new regional educational Laboratory called Education Development Center. Dr. James R. Killian, Jr., Chairman of the Corporation of MIT has been selected as a trustee of the new organization, and Dr. Jerrold R. Zacharias, Institute Professor, has been selected as a vice president.

To be located in Newton

The organization, to be located in Newton, Massachusetts, resulted from the merger of two organizations already prominent in the field of education: Educational

Services Incorporated and the Institute for Educational Innovation. Educational Services Incorporated has been a leading center of curriculum improvement and innovation over the past ten years. Its teaching and learning aids in the sciences, mathematics and social sciences are being used in schools and universities throughout the world. It is particularly famous for its PSSC physics course. The Institute for Educational Innovation was formed in August, 1965, to study and develop means and methods of improving education.

The purpose of the EDC is to "strengthen education in New England and elsewhere through research, development and implementation of innovation in schools."

Will seek community support

Among the innovations that may be expected are the establishment of pilot community projects which will explore different approaches to comprehensive community educational development. As a regional laboratory, the EDC will also be engaged in drawing out public support and involvement in education, and in inviting the resources of the communities and industries in New England for planning and operating new kinds of educational partnerships.

Recent growth trends in New England indicate some of the specific problems with which the laboratory will be concerned. Most of New England's seven major cities lost population during the latest census decade, some as much as one-sixth, while many smaller communities gained at startling rates. The exodus from central cities to the suburbs is fairly familiar, but the growth of country towns, not suburban to any city is less known.

These facts suggest flux and di-

versity in population, factors that need immediate attention of the type that the EDC will offer. An area that is growing rapidly experiences not only the strains of supplying school space and staff for more pupils, but often the strain of a less homogeneous population with newcomers threatening the established ways.

The EDC is one of twenty regional educational laboratories throughout the United States designed to continue the ferment in education that began with the curriculum reform movement triggered by Sputnik. These laboratories are supported by the National Program of Educational Laboratories under Title IV of the Elementary and Secondary Education Act of 1965.

(Please turn to Page 5)

Institute closes early Wednesday; Snowfall hampers all activities



Polaroid by Bill Ingram

Neither rain nor sleet nor dark of night can close the Institute completely. Ten inches of snow fell Wednesday, but the Institute did not relent. Well, offices were closed at 3 pm and evening classes were cancelled, but all else was normal.

Lectures to discuss Africa

By Carson Agnew

During the next two months leading specialists in the problems of underdeveloped nations will be lecturing at MIT as part of the sophomore Engineering Design Laboratory, 2.67. Against a background of these lectures a series of design projects will be launched concerned with the technological problems of West Africa's economy.

Dr. Robert W. Mann, one of the professors in charge of the course, said "we try to come up with problems the students really get excited about, and give them virtual carte blanche on their choice of topics."

New This Year

The Design Lab, supported by the Department of Mechanical Engineering, has taken a new form this year, although something similar has been offered for nearly ten years. This year, under the new curriculum, will be the first in which all sophomores must take a project laboratory of some kind before graduation.

Previous years' classes have attracted the attention of professional engineers with solutions to problems in motor vehicle safety, high-speed ground transportation, and urban transit systems.

Presentations Required

During the term the design

groups will write progress reports, submit proposals, make oral presentations, and defend their ideas before a design jury. At the end of the term they make a formal presentation before a panel of experts.

Ten Lectures

The first lecture in the series is today, when Dr. A. A. Castagno, head of the African Studies Program at Boston University will speak. During coming weeks the class will hear from Prof. Duncan Macrae, Department of Economics at MIT (Feb. 13); Prof. Max F. Millikan, director of the Center for International Studies (Feb. 15); Prof. Carroll L. Wilson, director of the Fellows in Latin America (Feb. 17); William G. Saltonstall, former ambassador and Peace Corps director in Nigeria (Feb. 20); Prof. Dwight S. Brothers, a member of the subcommittee of the President's Science Advisory Board (Feb. 24); and Prof. John R. Harris, former Ford Foundation associate research fellow at the Nigerian Institute of Social and Economic Research (Feb. 27). In March R. Charleson, Center for Studies in Education and Development, Harvard (Mar. 1); Dale B. Fritz,

of the Volunteers for International Technical Assistance (Mar. 3); and George C. Lodge, former director of the International Division of the Harvard Business School.

All the lectures will be held from 1-2 p.m. in Room 3-270.

Public Relations Office to revise events calendar

Starting next week, a newly designed calendar will be issued by the office of Public Relations. Events will be classified in categories, as well as chronologically, and will include those which were listed in the past in the Student Information Bulletin issued by the

Student Public Relations Committee.

Information should be sent to the Office of Public Relations, 5-105, by noon of the Monday before the calendar is to be distributed.

Canadian team to visit next week to recruit nationals for industry

A team of Canadian University, Civil Service Commission, and Department of Manpower personnel will visit our campus to acquaint Canadian students with employment opportunities in Canadian universities, industry and the federal Civil Service.

Canadian students are invited to attend the general meeting in the Conference Room E19-474 Tuesday, at 4 p.m. In addition, team

they may have private interviews with a member of the team in the Conference Room (E19-474) Wednesday from 9 to 5.

For appointments, students should call Miss Sally Howes, x4733 and indicate preference between a University, a Civil Service Commission or a Department of Manpower Member of the

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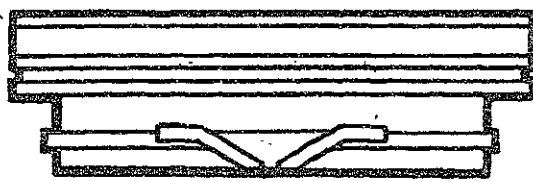
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taste with an album from our Record Department. Flatter her intellect with a book she'd enjoy.

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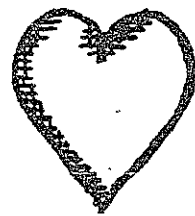


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Colognes and perfumes by Guerlain, Chanel
Hosiery by Hanes
Sweaters and sportswear by famous casual makers

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Springbok Puzzles
Gift items by Laura Lee Linder
Lady Buxton wallets and key cases
Slim golden writing instruments by Cross
Shear and luxurious boxed writing paper by Eaton
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Spring of Joy—1.50
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Schulz—Love Is Walking Hand In Hand—2.00
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Khayyam—Rubaiyat of Omar —30.00
Untermeyer—Labyrinth of Love —2.50
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Petrella, Tagliavini, Taddei
Monaural \$5.94 Cetra
BEETHOVEN — Cello Sonatas
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Jacqueline Du Pre & Stephen Bishop
M. \$2.90 — S. \$3.90 Angel
MENDELSSOHN — A Midsummer Night's Dream
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M. \$2.90 — S. \$3.90 RCA
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Lily Laskine, Harp
M. \$3.20 — S. \$3.90 Epic
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Benton's magnificent verses / Music by Herbie Mann
M. \$3.57 — S. \$4.27 Atlantic
A MAN AND A WOMAN
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M. \$2.90 — S. \$3.90 United Artists
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Richard & Mimi Fariña
M. \$3.20 — S. \$3.90 Vanguard
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Included — Tonight I Need Your Lovin' — About My Love — One Sure Thing
M. \$2.40 — S. \$2.90 Verve-Folk
WHAT NOW MY LOVE
Herb Alpert & The Tijuana Brass
M. \$2.40 — S. \$2.90 A&M
SOMEWHERE MY LOVE
Ray Conniff and the Singers
M. \$2.60 — S. \$3.20 Columbia
EVERYBODY LOVES SOMEBODY
Dean Martin
M. \$2.90 — S. \$3.90 Reprise
WHEN A MAN LOVES A WOMAN
Percy Sledge — A dynamic new voice
M. \$2.77 — S. \$3.57 Atlantic
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Miles Davis — A poem composed of Davis' album titles
M. \$2.60 — S. \$3.20 Columbia
ANGEL EYES
Dave Brubeck Quartet
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Man challenged by machine in Mass. chess tournament

Carl Wagner, an MIT graduate student and chess master, encountered opposition from an unusual source on his way to winning the Massachusetts amateur championship. His unorthodox opponent was an MIT Project MAC computer which had been programmed to play chess by project assistant Robert D. Greenblatt.

Man vs. machine

Though the machine had given him a difficult time in an earlier match, Wagner had relatively

little difficulty this time, pulling ahead after seventeen moves. Wagner commented that "Sometimes the computer was very clever, but at other times it was blatantly ridiculous." Even so, he felt that the Institute computer "has the strongest chess-playing program around."

The U. S. has one other chess-playing computer, located at Stanford. An effort is underway to stage a match between this computer and a third chess-playing computer in Russia.

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Students unconvinced

Wilkerson explains 'new physics'

By Steve Carhart

Crackpot or a new Copernicus? This was the question in the minds of the large turnout who listened to New Jersey manufacturer E. D. Wilkerson in the Burton House dining hall on Wednesday, Jan. 11. Mr. Wilkerson, who placed an advertisement in *The Tech* claiming that modern physics was incorrect and that he had developed new and correct theories to explain the motions of the heavenly bodies, spoke under the auspices of the Burton House Wazoo Forum.

'Unconvinced' by experiments

Mr. Wilkerson said that his theories came as the result of thinking prompted by his dislike

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of the mass attraction explanation of gravity and his observations of earth satellites. Mr. Wilkerson, who has had no formal science training beyond high school, dismissed the Cavendish demonstration of gravitational attraction between masses in the laboratory as "unconvincing."

He also said that he questioned whether an earth satellite might not be considered to be at rest with the earth and the rest of the universe in motion, an understandable statement on the part of one having an open mind but no training in considering different frames of reference.

Explains 'absolute rest'

From this basis, Mr. Wilkerson went on to explain his conception of the idea he calls "absolute rest," which one attains only at the center of the earth and in orbit. He pictured the earth satellite as being at rest and the universe spinning at a constant angular velocity behind it. When the objection was made that if a constant angular velocity were maintained, even parts of the universe within the solar system would move at velocities greater than that of light, he said that he doubted whether our notions of length would remain valid "so far" away.

No mathematical explanation

Much of Mr. Wilkerson's difficulty in impressing his audience came from the fact that he used no conventional definitions or mathematics. Furthermore, his lack of knowledge of classical physics led him to make some indefensible statements; for example, he said he was "unsure" whether or not a body not being acted upon by any force moved in a straight line. His interpretation of $E = mc^2$ was that the resistance encountered when a body is accelerated to the speed of light presses so hard on the body that it is turned to energy.

However, occasionally one could recognize a statement of classical physics shrouded in Mr. Wilkerson's most original terminology; for example, he said that the inertia of mass reacts with acceleration to produce gravity. Although he has cause and effect

interchanged, this is not far from F equals ma .

Lack of foundation in Physics

Though no one seemed ready to abandon course 8 in favor of Mr. Wilkerson's ideas, the consensus among those present seemed to be that he was a sincere, open-minded individual who had constructed his own physics from scratch.

Though his ideas were short on experimental evidence, they were long on ingenuity. However, one cannot help wondering what his ideas might have been if he had spent the nine years he has been developing his theories in trying to get a better understanding of conventional physics — starting with 8.001.

Premed Society meets reveals new program

MIT's newly formed Premedical Society will have its first meeting on Wednesday, February 15, at 7:30 pm in rm. 473 of the Student Center. All future programs will be announced at this meeting, and faculty and pre-medical advisors will be present to answer questions.

Spring plans

Among the group's planned activities are a trip to a Boston hospital to see an operation, tours of hospital laboratories with demonstrations of equipment, and dinner discussions of admission policies with the Deans of Admission of Boston medical schools. The deans who will be coming to these meetings are Dr. Perry J. Culver of Harvard, Dr. Franklin G. Ebaugh of Boston University, and Dr. J. Wallace Zeiler of Tufts.

Anyone having questions or interested in the group but unable to attend the first meeting should contact David B. Swedlow at 734-9184 or Dean Wick's office, ext. 5241.

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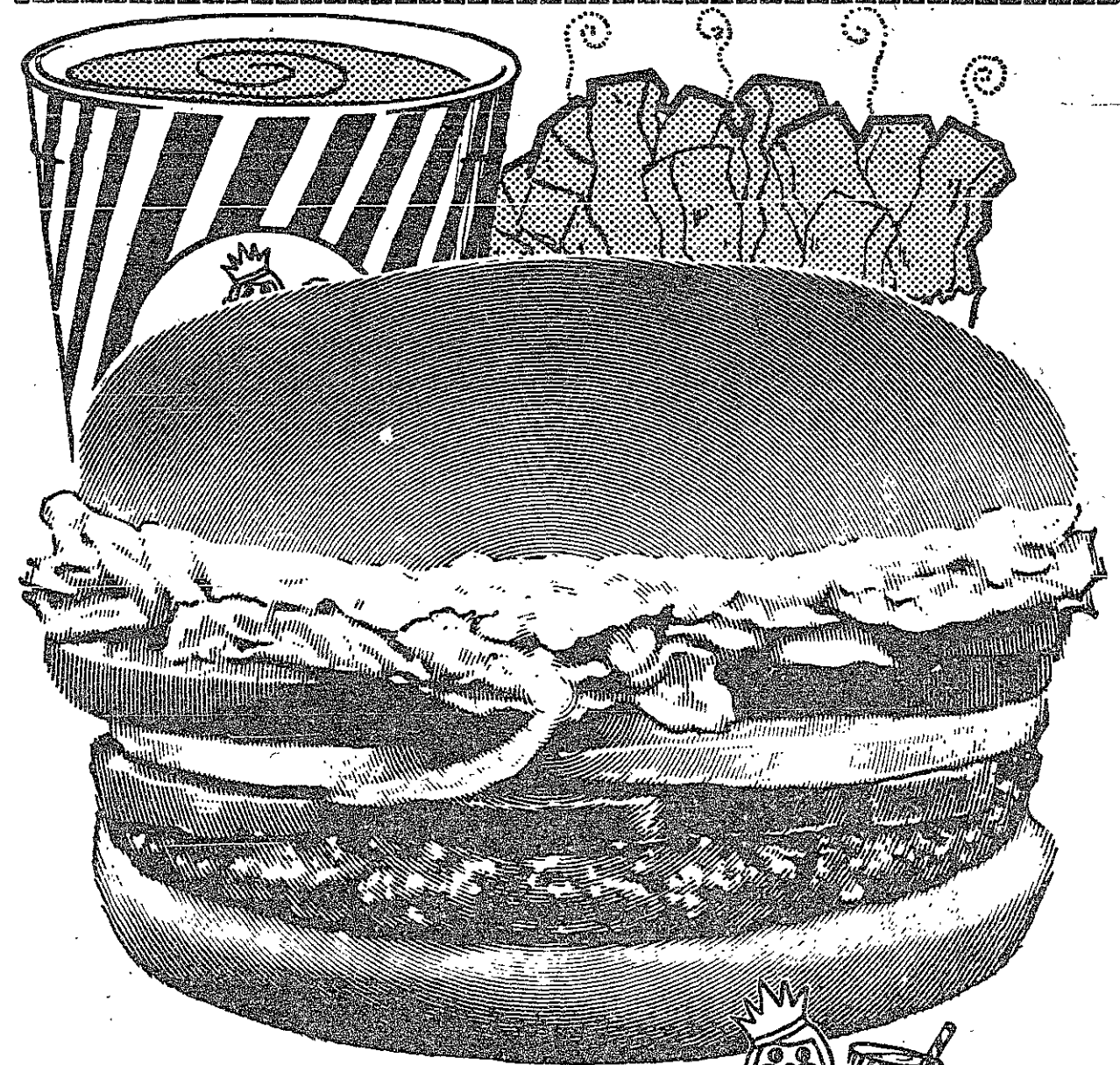
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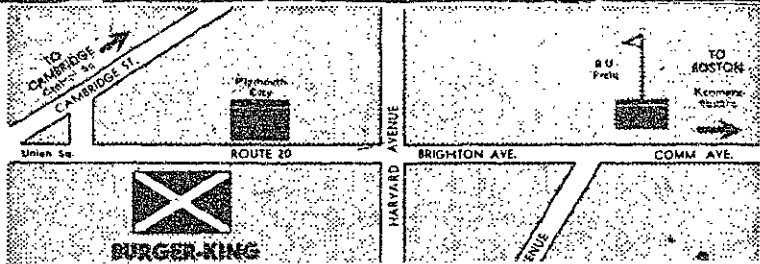
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In praise of culture

One of the great pleasures inherent in editorial writing is the opportunity to praise a worthy enterprise which has not, perhaps, received all the acclaim that it should. Such an activity is the program sponsored by the Department of Humanities.

Two years ago, without much fanfare or publicity, the Department of Humanities, of its own initiative, undertook to provide an extremely valuable series of events, concerts, lectures, films, and readings. Since its inception many thousands have been able to attend performances of exceptional merit, most times free of charge.

Since October, under the direction of Prof. Richard M. Douglas, Head of the Dept. of Humanities; Prof. Klaus Liepmann, Director of Music, and Prof. Gregory Tucker, Professor of Humanities, the department has presented some 15 different events. Included have been concerts, the Humanities Series of Chamber Music Concerts, lectures—especially noteworthy were those of the reknown composer and Visiting Professor Elliott Carter, plays (Marat/Sade), as well as films and dramatic readings.

Still to be presented in the program are the New York Chamber Soloists and the Beaux-Arts Quartet, both of them Humanities Series Chamber Music Concerts. In previous years we have been privileged to be able to attend the Metropolitan Opera Studio Production of Falstaff and Così Fan Tutti (last February), Waiting for Godot by the Boston Theatre Company (April, '65), and Maria Tallchief and Members of the New York City Ballet (Dec., '64).

From all this we see that the Humanities Department has been highly successful in bringing a tremendous diversity of novel and original entertainment to MIT. In fact, these performances have been unique for all New England, many of

them being performed in the area for the first time. As an example, the first performance of the Metropolitan Opera Studio in New England was that one at MIT. This is likewise true for the New York City Ballet. The Sir John Gielgud-Miss Irene Worth readings in Shakespeare was performed here before journeying to Broadway.

Surprisingly, all these events have been presented without cost to the students and staff of the Institute, with the exception of the Gielgud-Worth presentation which was performed at a very reduced rate. What is most amazing, however, is that no Institute funds or subsidy have ever been allocated to the program. The Humanities Department has sought donations and patronage funds to support the endeavor.

Unfortunately, functioning as it does on donated funds, the department can offer only a single performance though demand may far exceed the capacity of Kresge, as was most noticeably evident by the long queue for Marat/Sade. Recently to insure as fair a ticket distribution as possible, the Humanities Department has been cooperating with LSC in giving away the tickets. LSC has done a commendable job in the face of large crowds and a limited number of seats.

That this is a worthy enterprise should be self-evident. It gives students and everyone at MIT a rare cultural experience as well as lending to the Institute the prestige of a humanities series equal to or surpassing that at any other university. With proper financial support from the Institute the program could, in the future, avert ticket shortages by staging more performances.

The Humanities Department deserves a very warm congratulations for its initiative and skill in providing such a fine cultural program.

But seriously,

Once again the political woodwork on campus is teeming with activity. A week ago there were only students, now the breed known as the student politician has descended on us. But here the levity ends. There are important reasons to seriously consider the events of the next few weeks.

The student government at MIT is an autonomous structure as free from administration controls as could be found anywhere. And it has earned this right by being responsible, by taking its role seriously, and attracting the kind of people willing to devote the time and energy to govern well.

In the weeks to come candidates will be speaking to a great many of their fellow students. They will try to convince; they will answer questions; they will raise issues or take stands on some old ones. In addition, the candidates will spend a great deal of time away from their studies, often their campaign expenses exceed their early estimates.

But this is only half of it. The rest of the student body has an obligation to the candidates, and more importantly, to themselves. Unless there is a concern evident, unless students are eager to listen to issues and ask questions, then we can expect a dull campaign. But, far worse than the consequences of a dull election is the effect it can ultimately have on the government. All governments must be infused with fresh ideas and new approaches if they are to keep alive the system.

We can expect the best of the candidates only if we demand their best. For this reason, we urge everyone to take the elections seriously and to consider every vote before it is cast.

Inside Incomm

Conference delegates chosen; vote on status of SCC soon

By Frank March, UAP

Delegates to intercollegiate conferences have been selected. The representatives are: Mike Marcus and Mark Spitzer, Fairleigh Dickinson; Keith Patterson and Dave Sanders, Wake Forest; Paavo Pyykkonen, University of Wisconsin; Tom Jones, Principia; Mike Telson, Jean Spottsword, Frank March, Radcliffe (2 more will be chosen). Additional delegates will also be chosen to the Regis Conference on Southeast Asia in April.

Student Affairs Committee

The Institute Committee met with the Corporation Visiting Committee on Student Affairs on January 30. The Committee, which examines various aspects of student life and reports to the Corporation, focused on graduate students, extra-curricular programs and costs, food and residence.

At the last meeting of the Institute Committee, a clarification was voted upon concerning contracts for class rings. The motion makes it the responsibility of the sophomore class president to negotiate with ring companies and sign the contract for the rings.

The Incomm meeting, on Feb. 16, a number of structural changes will be voted on. The administrative status of the Student Center Committee will be one of these. A two-thirds vote of Incomm will be required to keep the Student Center Committee on the Executive Committee. The proposal to have a fifth member of the Excomm who would be a member at large will also be voted on.

Juliet Fassett Foundation

Preliminary plans are being made to set up a Juliet Fassett Foundation in memory of the late Mrs. Fassett. The Foundation's structure will probably be somewhat parallel to that of the Baker Foundation at MIT. The funds of the foundation will probably be used to set up a quiet garden somewhere in the Institute.

Alumni to meet seniors

The Alumni Association is making plans to meet with Seniors on a living group basis some time in April. The objective of the meeting will be to make seniors more aware of the activities of the Alumni Association.

SCEP Forum

Reading period study

By Enrico Ancona

The faculty voted to extend the reading period on a trial basis at its January meeting. Reading period will now be a week long.

At the end of the last spring semester, SCEP carried out a poll to find out student's preferences for reading period. The results showing that, taking first choices into account, only 35% of those answering the poll (over 1000 students) preferred the arrangement just approved, 27% preferred to leave reading period the way it was and 22% preferred a reading period from Saturday to Tuesday with exams from Wednesday to the Friday of the following week, on alternate days. Finally, 16% preferred a scheme with a short reading period, but a long finals period guaranteeing no more than one final per day.

It is interesting to note that, in general, the higher the class, the more students preferred to leave things the way they were. For example, the extension just approved was the first choice of 36% of the class of '69, 42% of the class of '68, 29% of the class of '67 and 27% of the class of '66. This might be explained because in general upperclassmen have less finals than underclassmen and also because the older students many students gave for

leaving the reading period the way it was, were that a longer reading period would not be productive as they would not concentrate for all that time. They felt that reading period was really five days long (counting the weekend) which is enough time to review if one has kept up adequately during the semester. They also felt that they wanted finals over as quickly as possible and any system which prolonged the agony was definitely not desirable.

The proponents of a longer reading period, on the other hand, felt that a short reading period could only lead to cramming. They wanted at least one day for each final they had. Everyone agreed that two finals in one day was terrible but opinion was divided when it was pointed out that the only way of eliminating that was to have a longer finals period. Some felt that two finals in one day was more bearable than a final on the last day of a two weeks finals period.

It should be emphasized that the extension is on a trial basis. Students are accustomed to the existing system.

In the comments section of the poll, it was found that among the

(Please turn to Page 14)

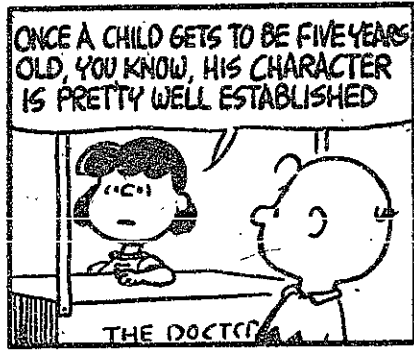
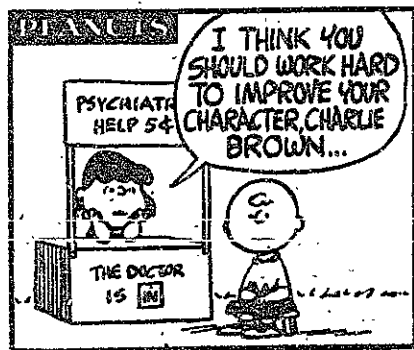


Vol. LXXXVII, No. 2 Feb. 10, 1967

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Seniors lecture on topic of 'time' in Humanities department program

"Time" will be the topic of February 23, James Stuard will three lectures given by seniors in talk on "Time in Egyptian Art." Course XXI. Originally the talks The final lecture, "William were papers prepared in the Butler Yates: A Study in Heroic Senior Humanities Seminar on Eternality and Timeless Free- dom", will be given by Ralph David Vetter will speak on Sawyer on March 2. "Time and the Perception of All lectures will be held in the Structure in Music" Thursday. On Hayden Library Lounge at 4:30,



On Campus

with Max Shulman

(By the author of "Rally Round the Flag, Boys!", "Dobie Gillis," etc.)

STAMP OUT YOUNG LOVE

It happens every day. A young man goes off to college, leaving his home town sweetheart with vows of eternal love, and then he finds that he has outgrown her. What, in such cases, is the honorable thing to do?

Well sir, you can do what Crunch Sigafos did.



When Crunch left his home in Cut and Shoot, Pa., to go off to a prominent midwestern university (Florida State) he said to his sweetheart, a wholesome country lass named Mildred Bovine, "My dear, though I am far away in college, I will love you always. I take a mighty oath I will never look at another girl. If I do, may my eyeballs parch and wither, may my viscera writhe like adders, may my ever-press slacks go baggy!"

Then he clutched Mildred to his bosom, flicked some hayseed from her hair, planted a final kiss upon her fragrant young skull, and went away, meaning with all his heart to be faithful.

But on the very first day of college he met a coed named Irmgard Champerty who was studded with culture like a ham with cloves. She knew verbatim the complete works of Franz Kafka, she sang solos in stereo, she wore a black leather jacket with an original Goya on the back.

Well sir, Crunch took one look and his jaw dropped and his nostrils pulsed like a bellows and his kneecaps turned to sorghum. Never had he beheld such sophistication, such intellect, such *savoir faire*. Not, mind you, that Crunch was a dolt. He was, to be sure, a country boy, but he had a head on his shoulders, believe you me! Take, for instance, his choice of razor blades. Crunch always shaved with Personna Super Stainless Steel Blades, and if that doesn't show good sense, I am Rex the Wonder Horse. No other blade brings you such facial felicity, such epidermal *elan*. Personna Super Stainless Steel Blades take the travail out of shaving, scrap the scrape, negate the nick, peel the pull, oust the ouch. Furthermore, Personnas are available both in double-edge style and in injector style. If you're smart—and I'm sure you are, or how'd you get out of high school—you'll get a pack of Personnas before another sun has set.

But I digress. Crunch, as we have seen, was instantly smitten with Irmgard Champerty. All day he followed her around campus and listened to her talk about Franz Kafka and like that, and then he went back to his dormitory and found this letter from his home town sweetheart Mildred:

Dear Crunch:

Us kids had a keen time yesterday. We went down to the pond and caught some frogs. I caught the most of anybody. Then we hitched rides on trucks and did lots of nutsy stuff like that. Well, I must close now because I got to whitewash the fence.

Your friend,
Mildred

PS....I know how to ride backwards on my skateboard.

Well sir, Crunch thought about Mildred and then he thought about Irmgard and then a great sadness fell upon him. Suddenly he knew he had outgrown young, innocent Mildred; his heart now belonged to smart, sophisticated Irmgard.

Being above all things honorable, he returned forthwith to Cut and Shoot, Pa., and looked Mildred straight in the eye and said manily, "I do not love you any more. I love another. You can hit me in the stomach all your might if you want to."

"That's okay, hey," said Mildred amiably. "I don't love you neither. I found a new boy."

"What is his name?" asked Crunch.

"Franz Kafka," said Mildred.

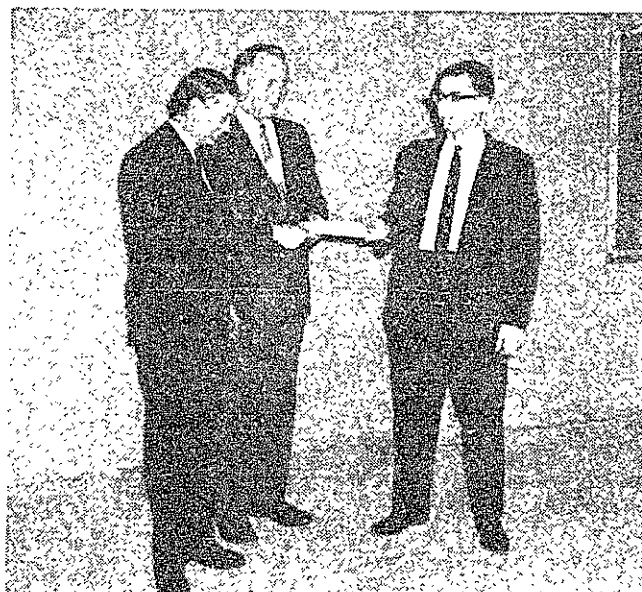
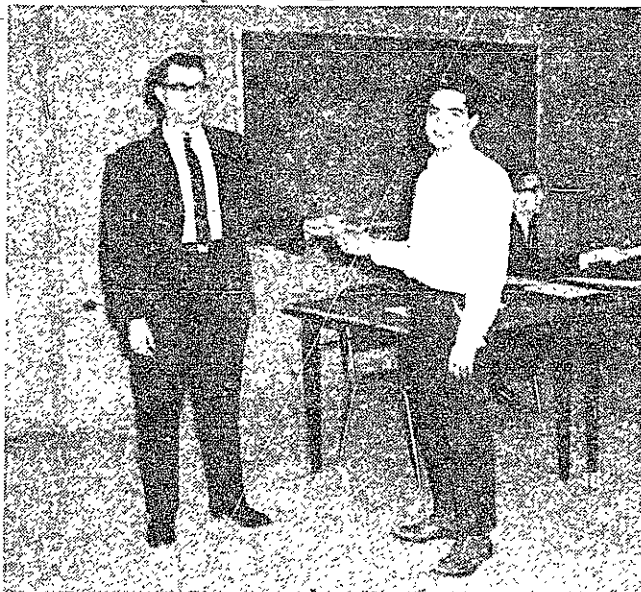
"I hope you will be very happy," said Crunch and shook Mildred's hand and they have remained good friends to this day. In fact, Crunch and Irmgard often double-date with Franz and Mildred and have barrels of fun. Franz knows how to ride backwards on his skateboard one-legged.

* * *

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So you see, all's well that ends well—including a shave with Personna Super Stainless Steel Blades and Personna's partner in luxury shaving—Burma-Shave. It comes in menthol or regular; it soaks rings around any o'her lather.

UMOC profits to combat cancer



Polaroids by Bill Ingram
APO President Robert Young '68 (left) presents the UMOC key to Mel Basan '68, the winner of the Ugliest Man on Campus contest, at the APO meeting Wednesday night. Representatives of the American Cancer Society, Messrs. Farnham (left) and Thorson '37, accept a check for \$500.61—the amount of money gathered for charity in the UMOC contest.



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VISA

Killian appointed EDC trustee

(Continued from Page 1)

Mr. Franklin Lindsay, President of Itek Corporation, will be chairman of the board of the EDC. Arthur L. Singer, Jr., formerly executive associate of the Carnegie Corporation of New York and since September president of Educational Services Incorporated will be president of the new institution.

CAMPUS INTERVIEWS MONDAY, FEB. 13

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Computer 'films' quantum physics

Two MIT scientists are using animated film techniques to bring to life some of the difficult concepts of quantum physics. Instead of a cartoonist, however, the animator is a computer which performs the complex equations and draws the results on a cathode-ray tube display all in the space of a second. Human animators would labor half an hour or more just to draw the picture for a single movie frame.

Exciting to veteran physicists

These computer-generated films are unlikely to be featured at neighborhood theaters, but they are impressive to veteran physicists who never before have been able to watch the complete time-development of some of these quantum mechanical solutions. To a physicist, the peculiar oscillations of a wave representing a beam of particles as it confronts a force field is especially exciting because it exhibits in detail the phenomenon of scattering, one of the most important experimental techniques in modern physics.

The movie making technique was described today at a New York meeting of the American Physical Society and American Association of Physics Teachers by Dr. Harry M. Schey, a physicist at MIT's Education Laboratory. Dr. Schey is one of three co-developers of the filming technique. The others are Dr. Judah

L. Schwartz, also a physicist at the Education Laboratory, who is in charge of the Quantum Physics Project, and Dr. Abraham Goldberg of Lawrence Radiation Laboratory in California.

Computer film wins award

Their computer-generated film on "Scattering in One Dimension" won the Italian Association of Scientific Cinematography award when it was exhibited at the Eleventh International Exhibition of the Scientific-Didactic Film held last November in Padua, Italy.

At the MIT Education Laboratory researchers and faculty members are engaged in a variety of experimental work with new teaching techniques and innovations in education. The computer-generated film project is one of several experiments aimed at making more effective use of the computer in education.

Aids students with concepts

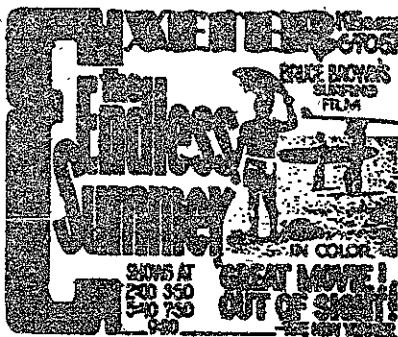
Dr. Schey sees this film technique as a means of helping students to visualize physical concepts that are outside ordinary experience.

"Since quantum physical phen-

omena are beyond the scale limits of normal perception, a student coming to grips with them for the first time is frequently hampered by the fact that they seem to contradict his own intuitions about the real world," Dr. Schey explained. "In the computer-generated film, we can simulate a scaled world in which quantum physical or relativistic phenomena become very apparent."

Guiding the Quantum Physics Project is a Board of Advisors made up of a number of the country's leading physicists. Included are two authors of the leading textbooks on quantum physics, several heads and former heads

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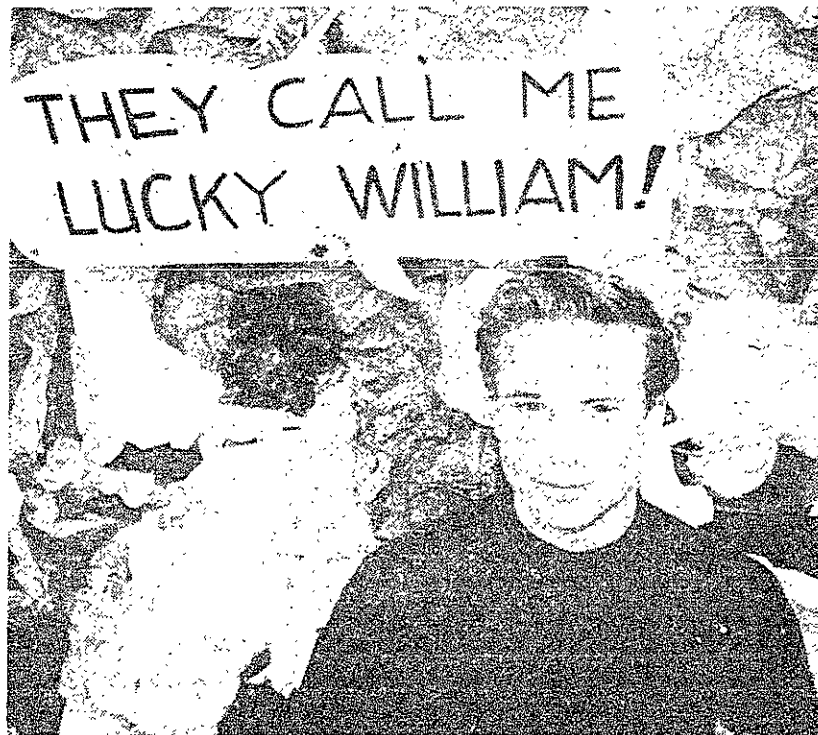


Tech Engineering News elects Board of Directors

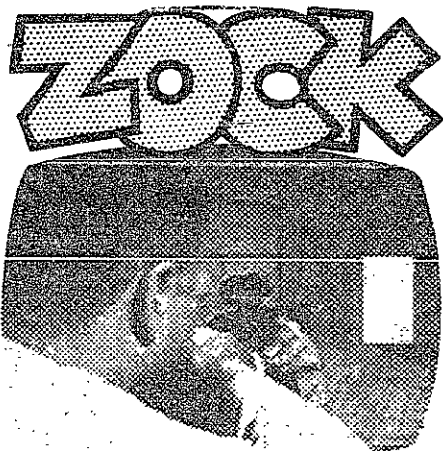
Tech Engineering News has selected as its Board of Directors of Volume 49: Len Hirshfeld '68, General Manager; Alan Ratner, '69, Business Manager; Neil Colvin '70, Managing Editor.

Also elected were Sharon Grundfest '69, Associate Editor; Don Colvin '70, Managing Editor.

Uhi '69, Associate Managing Editor; Paul Epstein '69, Art Editor; George Flynn '69, Photographer; Russ Mersereau '68; Distribution Manager; Barry Eisen '69 Editor-in-Chief; Charles Buerzli '69; Business Manager; Neil Colvin '70, Managing Editor.



TECH SHOW '67
MARCH 3, 4, 9, 10, 11



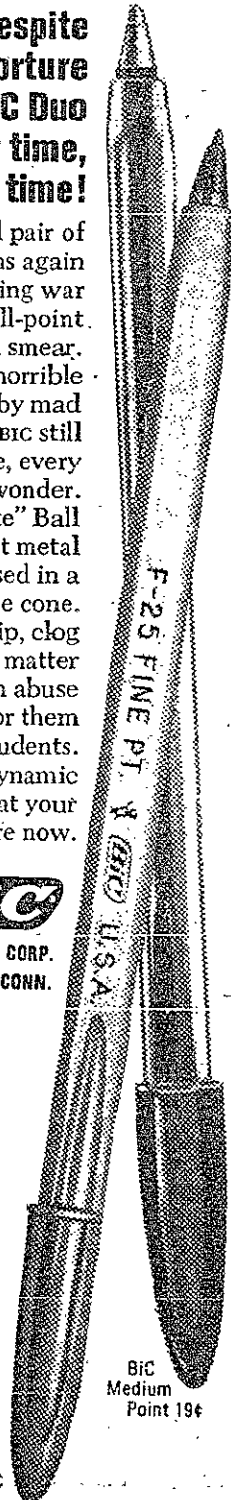
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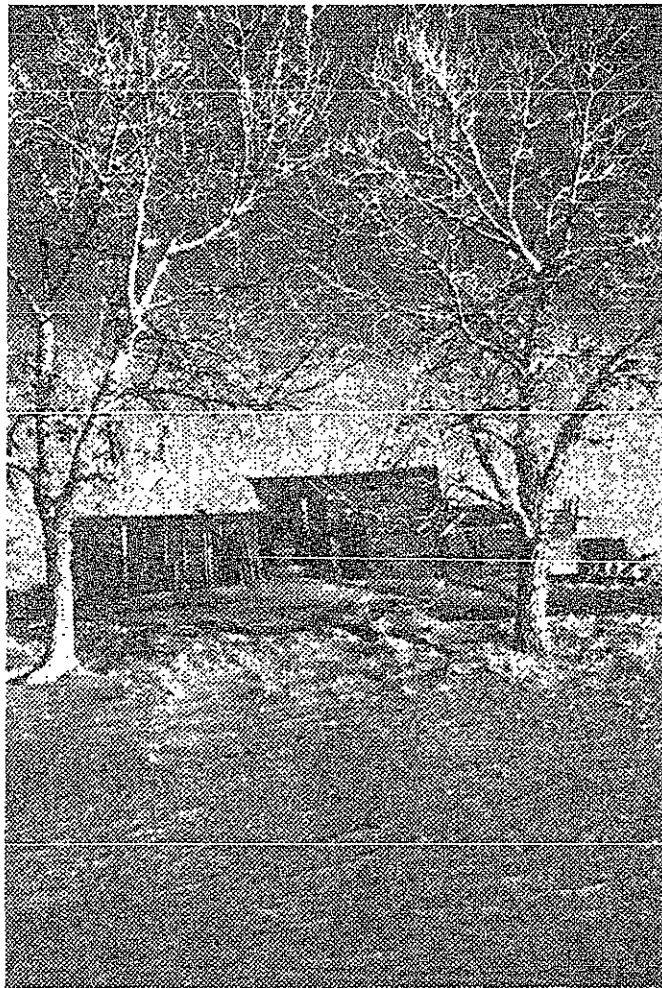
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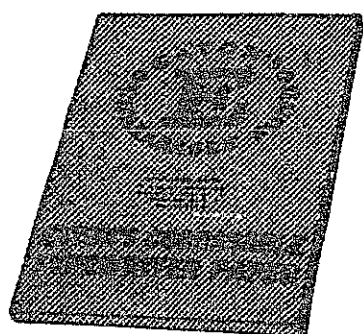
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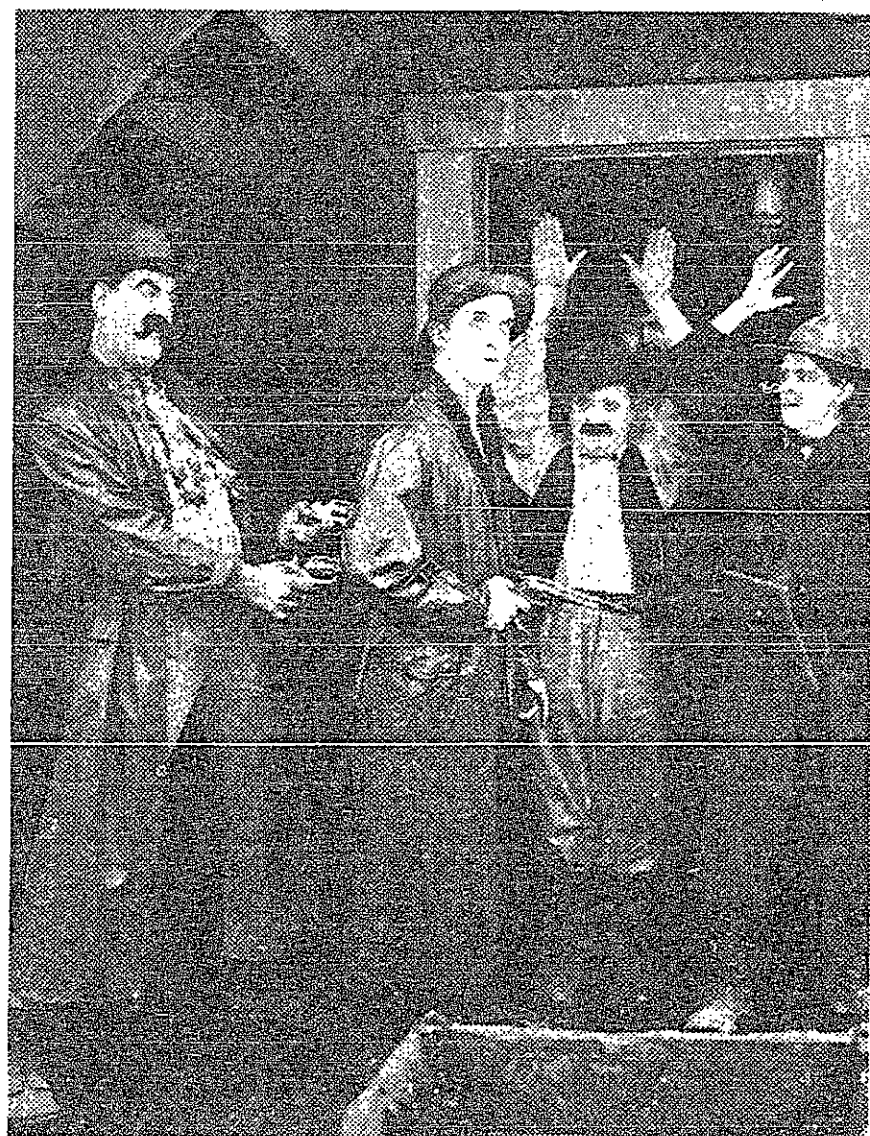
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Report of President

Stratton gives final words

By Paul Johnston

"These have been critically important years, and they have totally consumed the time, the thought, and the energies of all those who have had a part in the affairs of MIT."

So writes Julius A. Stratton in his final report to the Corporation as President of MIT. The report, for the year ending June 30, 1966, has been recently made available to all those connected with the Institute.

MIT reacts to the times

"A number of powerful forces," Stratton continues, have combined to reshape in many respects the characteristics of the Institute."

"The Institute has contributed its own share to these advances, and by the very nature of its involvement it has also reacted strongly to the needs and opportunities of the time. They in turn continue to multiply and diversify, so that a myriad of paths open out before us, institutionally and individually," he said.

Stratton goes on to discuss the "idea of a university," and the basic qualities and conditions which must exist before a true university can. "The real crisis of the university," he remarks, "is how to maintain its intellectual integrity, how to hold fast to the essence of its ideals, while striving to interpret and express them in the context of new science, of

new economics, of new politics—in sum, of a totally new world."

Systems become important

Partially as a result of this new world, but certainly not completely as a result, the "distinction between what is academic and what is not academic has lost much of its simplicity, if not its meaning," Stratton says. Interest is now focused on "the study of complete or partial systems. These systems... unite elements of pure science and engineering with considerations that are historically, economic, and political in nature. They provide, moreover, an unbroken passage that leads from the lecture room and laboratory into government and industry."

Stratton continues by mentioning "those values and objectives that have come to assume the first importance" in his thinking, and gives his view of what the future course of the Institute should be. First, reaffirming the theme of his inaugural address, Stratton asks that "everything we do, whether for the advancement of knowledge or in the public interest, should be viewed in the larger context of our teaching mission."

A broader education

With an increased involvement of the Humanities in the academic curriculum, Stratton hopes that an MIT education can become even more broader and more flexible than before. "I am convinced," he says, "that undergraduate education is destined at MIT to assume an increasingly broad and fundamental character and that students will come to us in growing numbers in the belief that, whatever their ultimate professional goals, this kind of edu-

cation will serve them well in an age so powerfully influenced by the social and practical implications of science."

Building for the future

Looking to the future, Stratton mentions several projects which are moving ahead rapidly. Construction of an addition to McCormick Hall is now underway. The Center for Advanced Engineering Study and the Center for Space Research, on Massachusetts Avenue and Vassar Street respectively, are to be completed in the summer of this year. A new undergraduate dormitory, MacGregor is to be built just west of Burton House. And a new Chemistry Building, to be located in Eastman Court has been designed, with the hope that construction will begin this spring.

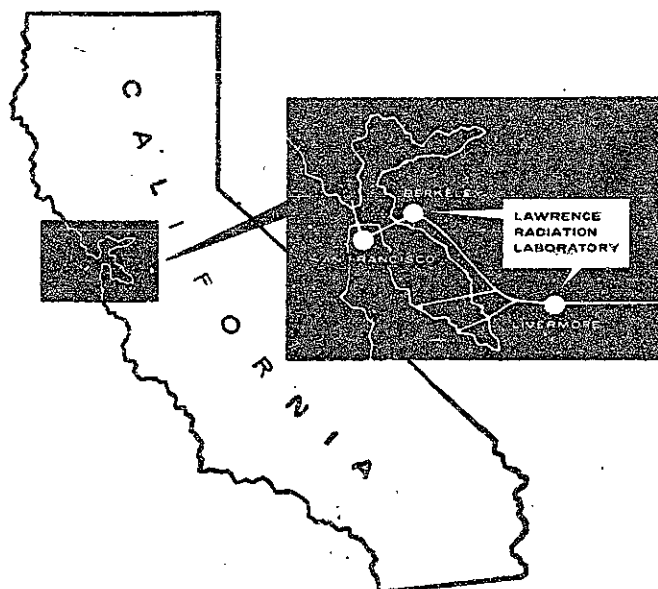
"A la recherche . . ."

Concluding the report, Stratton remarks that one cannot terminate "an active involvement of forty-six years without trace of trauma." But, he notes, he has come to "this milestone without sadness or regret, but with a sense of deep gratitude" for the opportunities and friendships that he has enjoyed during his term of office. He says that "for MIT these have been gloriously exciting, productive years, and no one could have asked more of life than to have had in all of this even a modest part."

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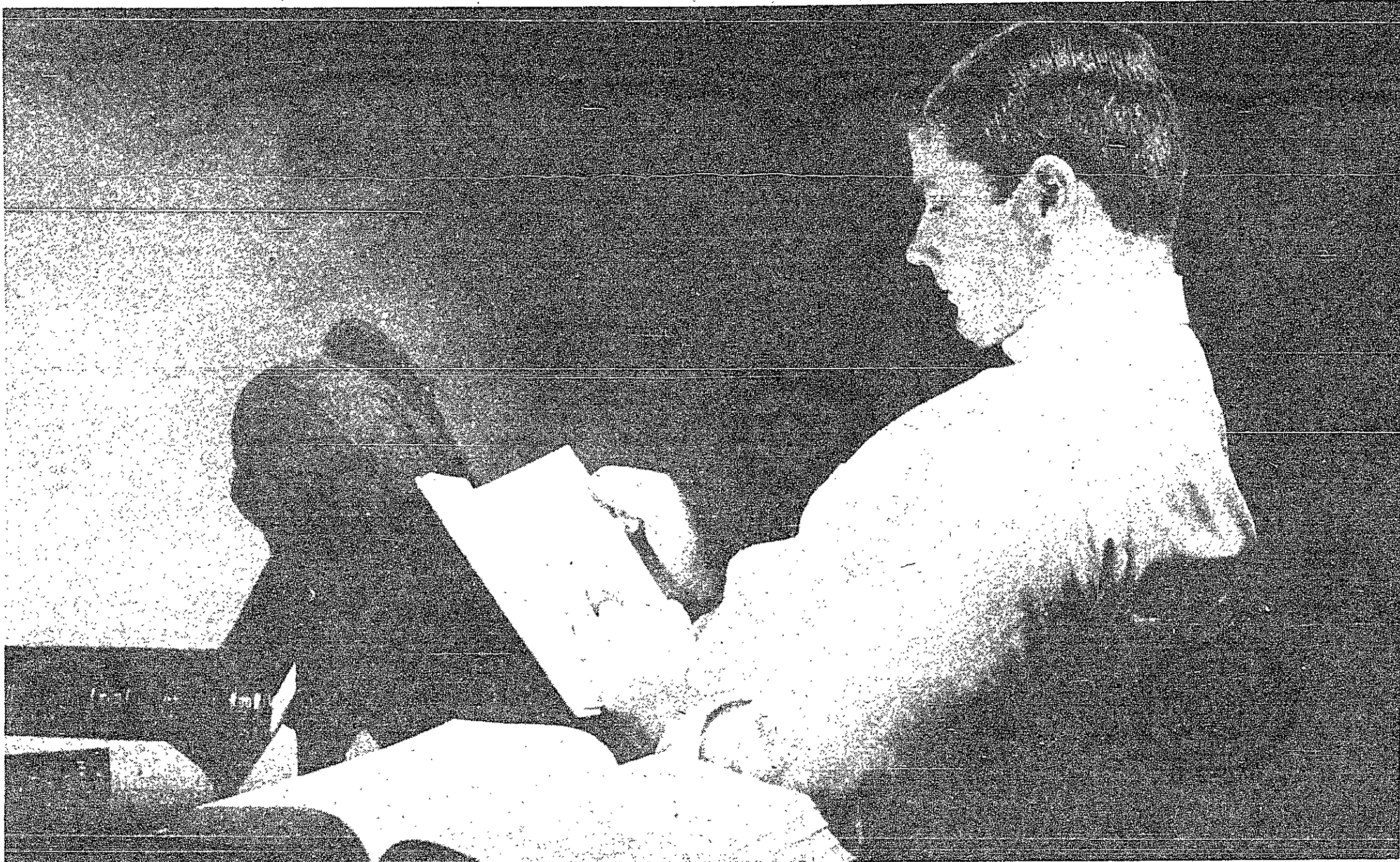
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Terry was one of our better students. He started the course at about 600 words a minute and increased his rate 9 times. Our average student begins at about 300 words a minute and graduates at speeds over 1200 words a minute.

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Reading Dynamics students often say that reading dynamically is like watching a movie. One has no sense of reading words. As Terry describes it, the words effortlessly "roll up at you." Sometimes your involvement is so intense that it's as though you're actually there, watching the action take place.

You may not learn to read quite as fast as Terry (and then again you might!), but the nationally known Reading Dynamics Institute guarantees that you'll at least triple your reading efficiency with good comprehension—or receive a full tuition refund.

Just to show you that Terry is not unique, here are typical samples of progress in words per minute by Reading Dynamics graduates in the Boston Area.

Senate Leaders Praise Techniques

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"I must say that this is one of the most useful education experiences I have ever had. It certainly compares favorably with the experience I've had at Yale and Harvard."

"It is my opinion that if these techniques were instituted in the public and private schools of our country, it would be the greatest single step which we could take in educational progress."

Improvement by typical graduates in words per minute.*

Name	Occupation	Easy Bk.	Easy Ed.	Diff. Bk.	Diff. Ed.
Burns, Kenneth, Engineer		440	1536	272	2464
Bonner, Peter, sales rep.	Honeywell	252	816	320	940
Carlson, Edwin, engineer		240	1000	210	1100
Cleary, Martin, salesman		345	1728	240	1920
Dushman, Bernard, B.U. student		536	2533	522	2510
Fabiyi, Elisha, trainee at A.D.L.		220	1584	270	780
Hamlen, Devens, int'l supervisor		490	1500	402	1000
Hoagland, John, vice pres.		320	3000	236	1160
Jones, Lawrence, asoc. prof.		415	3225	280	2416
Jones, Marilyn, math teacher		362	624	260	1160
Turner, Audrey, librarian		278	840	272	934
Peel, Geoffrey, planning engineer		403	1584	230	958
Liveson, oy, doctor of neurology		652	2450	450	2100
McCarriston, Joyce, student 12th grade		365	1698	272	900
Morgan, Edward, mgr. mtg. engineer		500	2100	400	1000
Morse, Harrison, employer in Medinet		475	1600	747	1520
Noyes, William, seminary student		528	1200	340	1450
Piper, Harry, Harvard student		500	1498	420	1100
Puricelli, Richard, jr. claim examiner		329	2392	294	2243
Reed, Nathaniel, B.U. student		317	1375	258	870
Rudolf, Harry, consultant		205	770	174	550
Saunders, William, copy writer		419	2100	380	1060
Shields, Eric, sales rep.		269	1722	224	1200
Smith, Roy, Harvard B. School		536	2016	350	2250
Souza, Lois, teacher		148	1008	154	1392
Thayer, Stephen, Harvard student		232	1728	310	1500
O'Neil, teaching fellow		576	1289	344	950
Ford, Jerome, teacher		401	972	288	1290

*These are test rates only. The average student reads 1 1/2 to 3 times faster than his reading test rates.

Utah schoolteacher discovers technique of dynamic reading.

Evelyn Wood first observed dynamic reading 18 years ago when a professor at the University of Utah read her term paper at an amazing 6000 words a minute. Mrs. Wood's curiosity caused her to look for other exceptional readers, and over the next few years she found 50 people who could read faster than 1500 words per minute, with fine comprehension, outstanding recall and great reading satisfaction.

She was now sure it was possible to read faster than anyone had thought, but the question of *how* was not yet answered. It took 8 years of toil and research, to find the answers. Eventually she developed a technique whereby the average student was able to learn to read 3 to 10 times faster.

She taught her method at the University of Utah for three years, refining it even more. Further studies were conducted at the University of Delaware, and the first Reading Dynamics Institute was opened in Washington, D.C. in September, 1959. Since that time, institutes have been opened in 61 cities throughout the country, and national enrollment for the course has topped 250,000.

Comprehension is stressed.

At a recent teacher training conference, Mrs. Wood emphasized that dynamic reading is nothing like the skimming techniques commonly used in speed reading courses. She said, "Skipping words is dangerous, as you don't know whether or not you have skipped a word which could change the whole meaning of the sentence."

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Computer-generated films simulate physical reality

(Continued from page 6)
of university physics departments and a Nobel Prize winner.
Three Films Already Completed
The MIT group has now completed three films and has six more in process. A number of

these are being developed by graduate students as part of their thesis research. Dr. Schey says the number of films produced by the group on quantum physics over the next few years may reach 20.

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theatres...

Brecht's pacifism captured at Charles

Mother Courage and Her Children, by Bertolt Brecht is now at The Charles Playhouse. It is directed by Michael Murray and stars Olympia Dukakis as Mother Courage, Lynn Milgrim as Katrin, Charles Keating as Elif.

By Cary Bullock
Had Bertolt Brecht seen The Charles Playhouse's production of his play, *Mother Courage and her Children*, he would have been very pleased. His only request would probably have been that the audience be allowed to smoke. But for that restriction, the play was presented with close adherence to Brecht's theories of the "epic theater."

Mother Courage is an anti-war play which assumes that war will never end. Indeed, war seems the natural way of life. But war is a way of life only to those who

will accept the rules. For those who don't, it is sure death. Those who survive must cast off the fatal virtues of honesty, bravery, and selfishness.

Mother Courage, played by Olympia Dukakis, is a peddler who meanders endlessly through the Thirty Years' War buying and selling. She seems to come from nowhere, and she goes nowhere. She merely follows the war which nourishes those who can stand its bitter milk. She has only her precious wagon and her three children, Elif, Swiss Cheese, and Katrin played by Charles Keating, Barry Michlin, and Lynn Milgrim, respectively. Her commercial instinct is in opposition to her maternal instinct. Ultimately, the commercial instinct triumphs, and she loses each of her three children while trying to make a fast buck. Until the sixth scene she hardly seems like a mother. There she curses the war for taking her two boys. But in the very next scene, she grudgingly says that no one is going to spoil her war for her! When the war final-

ly takes her last child, Katrin, she is forgiving. Once again she caters to the needs of the war, calling to the passing regiment, "Hey, take me with you."

Particularly commendable performances were given by Olympia Dukakis and Lynn Milgrim. What Brecht would have asked of Miss Dukakis is that she divorce herself from her role enough so that the audience would never lose sight of her as one of them. The actress should have become a teacher of sorts; she should have made her subject convincing, but have kept it at a safe distance. *Mother Courage*, as such, presents a rather awesome challenge. Miss Dukakis meets the challenge well.

The role of Katrin demands the same type of caution, but of a more delicate nature. Miss Milgrim as Katrin is excellent. If she seems to achieve pathos, that is not her fault. It is rather the fault of the audience who are not the objectively critical spectators Brecht would have liked.

The support actors, the best of whom were Louis Zorich who played the Cook and Gwyllum Evans who played the Chaplain, with few exceptions complemented the performances of Miss Dukakis and Miss Milgrim very well. They brought out easily the sparkling wit and bitterness which characterize all Brecht's plays.

The technical support, with the exception of costume design, was excellent. The helmets were just a little too shiny and undented. The uniforms just a little too neat. Designer William Roberts could have been more careful.

Taken as a whole, The Charles Playhouse's production of *Mother Courage and her Children* is an excellent example from the modern theater. It is an enjoyable evening for students of the theater as well as people who just want to be entertained.

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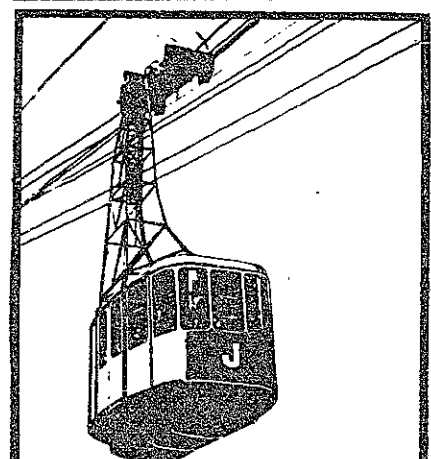
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movie . . .

Truffaut directs symbolic fantasy

"FAHRENHEIT 451": directed by Francois Truffaut; produced by Lewis M. Allen; starring Oskar Werner as Montag, Julie Christie as Linda and Clarisse, and Cyril Cusack as the Captain; released through Universal Pictures, playing at Beacon Hill.

By David Gross

Francois Truffaut's first film in English, "Fahrenheit 451," is a very successful work. Based on a

novel by Ray Bradbury, its form is that of science fiction, and its action is placed in the unspecified future. This is not for strictly internal reasons, but because we can look better at ourselves from a distance.

The film focuses its attention on one of the most profoundly important phenomena of modern society; the switch in emphasis from hot, or low-participation media to 'cool', high-participation ones. The imaginary society of the film is not distinct from ours, but is merely an exaggeration of it.

The physical action of the film is quite limited in scope. We are in a state in which the specific form of media transformation is that books are completely banned by law. Those designated to enforce this edict are the firemen. Since all buildings are fireproof, they have no thought of putting out fires. Instead, their job is to raid houses suspected of harboring books, to find the outlawed material, and to burn it. Truffaut concerns himself with one of these firemen, Montag, admirably played by Oskar Werner, whose revolt against the system constitutes the scheme of the film. This act, catalyzed by a young teacher, Clarisse, one of Julie Christie's two roles, and eventually leads to his forsaking of his conforming wife Linda (the other role), killing of the fire captain by his own methods, and joining a colony of people who have turned themselves into books.

Media adjustment
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(Please turn to Page 12)

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Talking Rock

By Don Davis

IFC Weekend, February 24-25, promises to give the popular music enthusiast his money's worth both in quality and variety, with an accent on the current "soul" trend. Little Anthony and the Imperials and the Rufus Thomas-Jimmy Soul pair offer two aspects of rhythm and blues, while the Paul Butterfield Blues Band presents a third aspect of soul, the heavily-amplified Chicago blues sound. Rounding out the weekend is Jim Kweskin and the Jug Band, a band which has had a tremendous influence on contemporary rock 'n' roll, particularly in the early music of the Lovin' Spoon-

ful. After their Roulette contract ended, they were picked up by producer Teddy Randazzo (he sang 'The Way of a Clown') who brought them back into the spotlight in 1964-5 on the Veep label with 'I'm on the Outside (Looking In),' 'Going Out of My Head,' and 'Hurt So Bad.' Although still recording regularly, they have not hit it big in some time, but considering today's trend toward soul music they may any day now. Their 'Best of Little Anthony and the Imperials' album on Veep is a complete collection for those who are interested.

Danceable r&b

Rufus Thomas and Jimmy Soul offer a more danceable r&b as exemplified by their hits—'The Dog' and 'Walkin' the Dog' from 1963 for Thomas, and 'Twistin Matilda' and 'If You Wanna Be Happy' from 1962-3 for Soul, the latter of which made it to second in the nation. Thomas founded Stax Records, which include such artists as his daughter Carla ('Gee Whiz' and 'B-A-B-Y'), Sam and Dave (more Negroes bought their 'Hold On I'm Coming' than any other 1966 single), and Eddie Floyd ('Knock on Wood').

Butterfield Blues Band

The Butterfield Blues Band has had two big albums, but their main claim to fame is the excitement they drum up in person. They made their first national noise at the 1965 Newport Folk Festival and since have been stirring up coffee houses like the Unicorn all over the country. The sextet, led by Butterfield's vocal and harmonica and Mike Bloomfield's lead guitar, plays loud and exciting material such as "Got My Mojo Workin'" and "Get Out of My Life Woman." The individual work of Butterfield on the mouth harp (his vocals are often cited as the group's weak point) and Bloomfield on guitar are as highly praised as the group's overall Chicago blues sound. Bloomfield, whose style is based on that of B.B.King, is often cited as the world's top rock guitarist and indeed on Playboy's jazz poll he finished 13th among guitarists, higher than anyone else in the rock idiom.

Kweskin's Jug Band

Jim Kweskin and the Jug Band is a group of five guys and one girl, playing an assortment of instruments including acoustic guitar, banjo, fiddle, washtub bass, harmonica, jug, tambourine, kazoo, and sandpaper blocks. They play a carefree, folky sound with amazing dexterity. The Lovin' Spoonful's first album contained four "good time" songs which had been done previously on albums

(Please turn to page 11)

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TECH SHOW '67
MARCH 3, 4, 9, 10, 11

The Avant-Garde Scene



Appearing Saturday and Sunday nights at The Boston Tea Party are the Chambers Brothers, currently on the pop record charts with their song "All Strung Out." Well known around Boston, they are famous for their blending of pop, gospel, and blues.

By Jack Bernstein
and Paul Lindsay

This issue of The Tech marks a new column devoted to the avant-garde in Art and Music. This past fall has been especially active for new art. The past month, Brandeis celebrated their Expressions '67 festival, with a Happening by the Once Group of Ann Arbor, and successive weekends of dance, some of it performed to electronic music, by the Merce Cunningham and Alwin Nikolais dance groups. Karlheinz Stockhausen, one of the leading exponents of electronic music recently

gave a lecture-recital of his latest works at the New England Conservatory of Music. Also started last month and continuing at 53 Berkeley in Boston is the local branch of Film Maker's Cinematheque and the Boston Tea Party with experimental lighting and electronics by an MIT graduate. With the establishment of the Cinematheque, Boston has become one of the best cities in the country for experimental film and the small colony of 'Underground' film-makers is growing rapidly. Stop in Tuesday-Thursday evenings, their program usually features the works of individual film-makers who frequently are in attendance to discuss their work; January, Harry Smith and Gregory Markopoulos made the trip to Boston. Of course, our own Film Society is very active and Stan Brakhage will be at the Institute sometime in April. Week-ends the Cinematheque literally and figuratively sheds its skin to become the Tea Party. Boston's first environmental light show and dance perhaps more accurately described as light show and crush.

Kweskin's Band influences rock

(Continued from Page 10)

by Kweskin's group, 'Blues in the Bottle,' 'Fishin Blues,' 'My Gal,' and 'Wild about my Lovin.' 'The Eggplant that Ate Chicago' was more in a jug band bag than any other recent pop hit. But more and more this influence is seen in discs such as 'Hello Hello' and 'Lovin You.' And Kweskin's is the top such band in the country.

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Combined Musical Clubs

Pinkham speaks at banquet

Daniel Pinkham will speak at the banquet of the MIT Combined Musical Clubs at 6:00 pm, February 18, 1967, in the Campus Room of Ashdown House. The banquet, an event for members of the MIT Concert Band, Glee Club, Concert Jazz Band, Symphony Orchestra, and Loga-

rhythms, is an attempt to allow Musical Clubs members to meet prominent musical personalities from the Boston area. Mr. Pinkham, a well known composer and member of the faculty of the New England Conservatory of Music, will discuss some of the problems a composer faces when he writes a commissioned composition.

Ramsey Lewis plays at Brandeis

Brandeis University in Waltham will host the popular jazz combo, the Ramsey Lewis Trio, this Saturday evening in the Shapiro Athletic Center on the Brandeis campus. Tickets are available unreserved for \$2.50 and reserved for \$3 and \$4 at the Brandeis Student Service Bureau, Harvard Square.

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Beacon Hill — 'Fahrenheit 451,' 10, 12, 2, 4, 6, 8, 10, (Sun. 1:30, 3:30, 5:30, 7:30, 9:30).
Boston Cinerama — 'Grand Prix,' 9:15, Wed., Sat., Sun. mat. 2; Sun. 7:30.
Brattle — 'Help,' 5:30, 7:30, 9:30.
Cheri I — 'Man for All Seasons,' 8:40, Wed. 2:30, 8:30, Sat. 2:30, 7, 9:45, Sun. 2:30, 5:30, 8:40.
Cheri II — 'A Funny Thing Happened on the Way to the Forum,' 9:45, 11:45, 1:45, 3:45, 5:45, 7:45, 9:45, (Sun. 1:30, 3:30, 5:30, 7:30, 9:30).
Cinema Kenmore Square — 'Loves of a Blonde,' 2:30, 4:15, 6:05, 7:45, 9:45.
Circle — 'Is Paris Burning?,' 8:30, Wed., Sat., Sun. 2; Sun. 8.

Film suggests symbolism by original photography

(Continued from Page 10)

media adjustment, Truffaut brings his full bag of cinematic techniques. Starting with a striking device for the titles, he moves through a brilliantly banal presentation on the all-revered wall television screen, and a touching view of Montag's introduction to books in the first chapter of 'David Copperfield,' 'I Am Born'. The director's use of color and photographic tricks is at all times appropriate. His originality is made spectacularly evident in such scenes as that in which during a bookburning, the breeze flips the pages of a book of Salvador Dali. Truffaut also emphasizes the sexual symbolism involved in the use of fire as the chosen means of destruction, a perversion concretely associated with the changes in media orientation. Examples of this include the sort of pleasure enjoyed by the Captain as he warms himself at a book-fire, and the fact that when Montag finally gets around to burning his own house, he unhesitatingly begins with the bed.

If Truffaut has not captured all the intricacies on film that Marshall McLuhan has put in print, he has certainly made an encouraging first attempt. One only hopes that forthcoming tries will have as much to recommend them.



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Computers used to render information more accessible

In any given week of the year, about 10 million letters are published in fields of science and technology. If you read eight hours a day, you could not read that many letters in a lifetime.

This deluge of print, plus the fact that this amount is doubling about every ten years, is causing the information explosion that threatens to swamp modern technology in an endless sea of paper.

Services being set up

But under the leadership of the President's Office of Science and Technology, many government agencies have set up computerized, interconnected information retrieval system. The National Science Foundation, and professional organizations such as the American Chemical Society, the American Institute of Physics, and the Society of Automotive Engineers are all doing research and setting up services to help process and file information, and convey it to its user in the shortest possible time.

Although some fear that computerized filing and abstracting may put scholarly journals out of business, this is not stopping

constructive action and planning.

Several areas of work show promise. Computers have shown that they can free librarians from routine but essential chores. The machine can, once instructed to do so, order a book, and then automatically check its receipt, list it in the catalogue, and keep track of borrowings and returns.

Engineering rivalry to be filmed

Compact methods of storage are also coming into use. The Defense Documentation Center, NASA, and the AEC are all converting their files and libraries to microfilm and the smaller "microfiche." MIT is planning to "microform" the entire engineering library.

The adaption of computers the task of information retrieval and presentation is progressing. Projects are underway which use computers to present information in forms other than language, to store information in a form that can quickly be transmitted over communications systems, and can present data on varied facets of a subject to the recipient simultaneously.

Tenth Folklore Series presents Tom Paxton

The Tenth Annual Folklore Concert Series will present Tom Paxton at Jordan Hall this Saturday, Feb. 11 at 8:30 pm.

A singer with a rich, melodious voice, Tom has an effective style in the tradition of his Oklahoma background. He is a writer with great lyrical talent and his songs, 'Last Thing on My Mind,' 'What Did You Learn in School Today,' 'I Can't Help But Wonder Where I'm Bound,' for example, have been widely recorded by many of the major folk music artists.

Tickets are available at Jordan Hall.

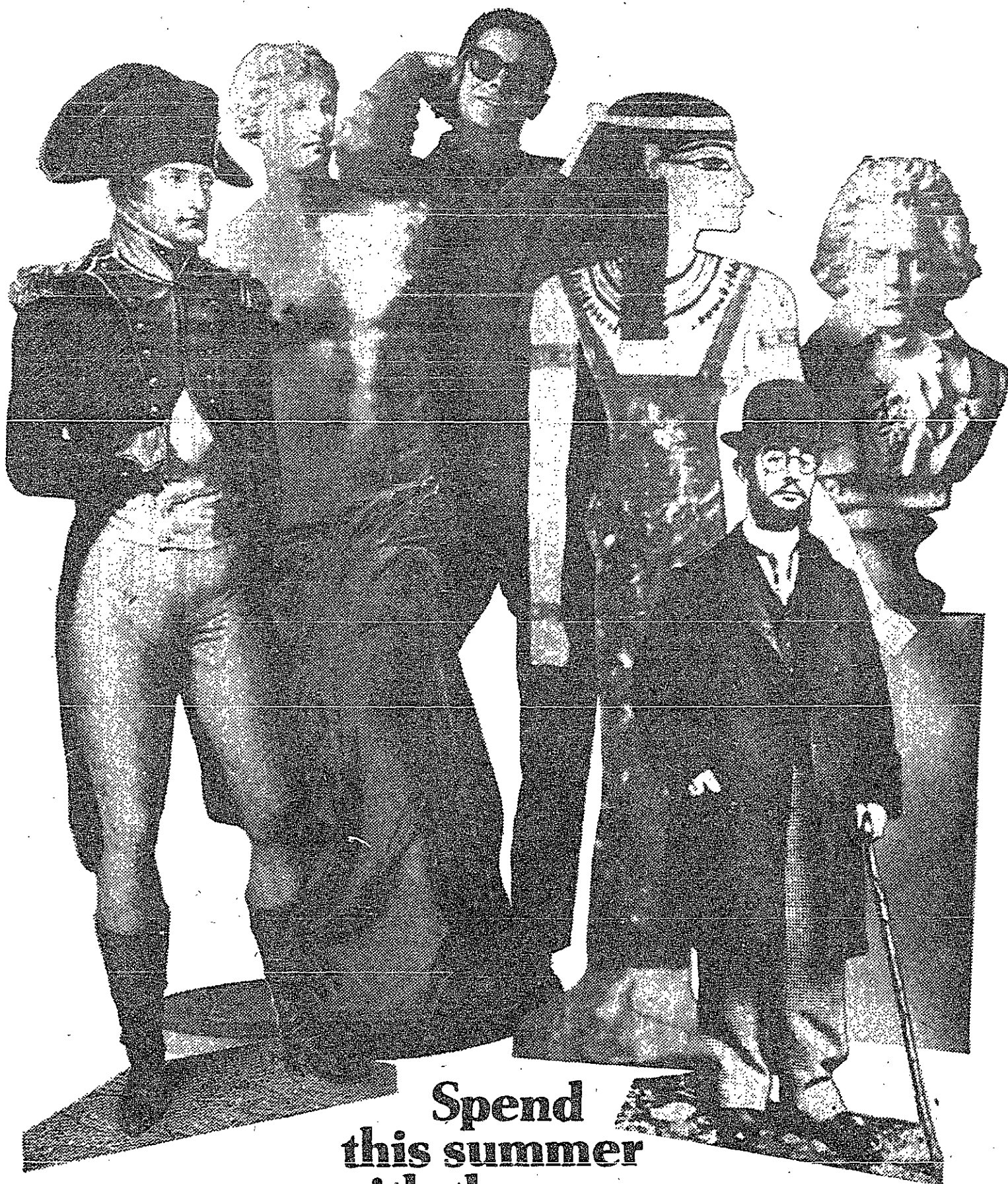
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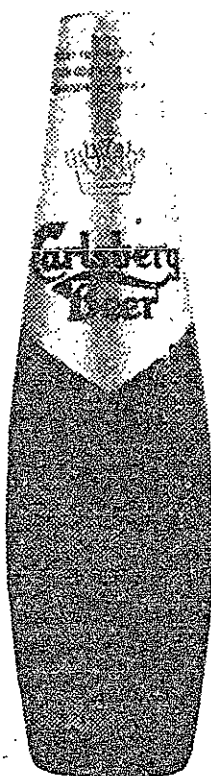
Whipple discusses Apollo asteroids

Prof. Fred L. Whipple, Director of the Smithsonian Astrophysical Observatory, Harvard University, will discuss the Nature of the Apollo Asteroids. The meeting will be held in Room 54-100 at 4 p.m., and tea will be served prior to the meeting. Harvard College Observatory will speak in a Compass Seminar ing.

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movie...

'Funeral in Berlin' lacks suspense

FUNERAL IN BERLIN: directed by Guy Hamilton; starring Michael Caine as Harry Palmer, Oscar Homolka as Stok; released through Paramount Pictures; at the Astor.

By David Grosz

Those hoping for another 'Ip-press File' in Guy Hamilton's 'Funeral in Berlin' are in for disappointment. To be sure, it is another of Len Deighton's sagas of British intelligence agent Harry Palmer (again Michael Caine), but like many cinematic sequels, falls far short of the standard set in the Sidney Furie work.

Deeply involved

Caine's assignment this time is to venture to East Berlin to help fetch a high Soviet official who the British believe wishes to defect. His first try fails, of course, but this only serves to involve Caine more deeply in an extremely intricate maze which ends up involving Britain, the two Ger-

manys, and Russia, and also the Nazi past, Switzerland, and Israel.

It is obvious from the opening scene that Hamilton is making a self-conscious effort at emulating 'Ip-press File.' This fact is relevant at many points throughout the film, and is one of its major defects. In the parent movie, a certain character for Harry Palmer was established by Furie. In a rush to cash in on this, Hamilton makes sure he puts all of this in during the first few scenes. This amounts to a boring hodge-podge at best. The title scene itself is a watered-down remake of one of the best of Furie's ideas.

For those who have not seen 'Ip-press File,' these considerations might seem academic. But the film is sufficiently flawed otherwise to prevent even them from attending the 'Funeral in Berlin.' Evan Jones' screenplay is minimal, and in far too many spots, even less. Cliches accompanied by blaring trumpets abound. The direction is equally hackneyed. Hamilton is apparently interested in attempting to artificially create a sensation of suspense when in

fact there is none, and he is, not surprisingly, unsuccessful. He is also fond of frequently bringing the camera in for close-ups when they are least called for. This practice is so manifest as to be almost embarrassing at times.

Technically mediocre

The photography is at its best in the documentary shots during the titles and at the end. The body of it is adequate, bordering on the trite. Michael Caine, probably sensing the qualities lacking in the script, is not quite up to his accustomed level of performance, but one hardly notices this immediately, since there is so much that is so much further from the mark in this film. The acting in the minor roles is mediocre, with the exception of a fair caricature by Oscar Homolka.

In the final section, Hamilton tries to comment on the troublesome question of obedience to one's superiors. He sharply juxtaposes a little-reformed concentration camp guard with Caine, the man who knows when not to follow orders. With the exception of such moments, 'Funeral in Berlin' is a film with very little to contribute to the medium.

Ribicoff proposes bill for tax break on tuition

Senator Abraham Ribicoff (D-Conn.) introduced a bill last Monday to give tax relief to parents and students who pay the costs of a college education.

The proposed legislation provides for a tax credit of up to \$325 on the first \$1,500 of tuition, books, fees, and supplies, and would go to anyone who pays these expenses for a student at a post-secondary educational institution.

The measure was co-sponsored by 46 Senators from both political parties and from all sections of the country.

It is the same bill which Ribicoff has introduced in the past, except that it has been amended to include coverage for students in accredited post secondary business, trade, technical and other vocational schools, as well as universities and colleges.

Under the bill, more than two-thirds of the benefits would go to families earning less than \$10,000 per year.

Speaking on the Senate floor, Sen. Ribicoff said: "We must decide, if, as a nation, we are to treat education costs as we do the interest on a home mortgage, or flood damage, or health expenses."

"Ben Franklin," said the Senator, "could experiment with a kite and key," but today's universities require so much sophisticated equipment that the costs of education is increasing beyond bounds.

Correction

The author of the review of "Loves of a Blonde" was David Koffman, not David Grosz, as was printed.

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Auto panel includes Morse Einstein's theory of gravity refuted

Continually increasing air pollution has prompted the Commerce Department to name a sixteen-man panel to investigate the potential of electric automobiles. Heading the group will be Dr. Richard S. Morse of MIT's Sloan School of Management. The panel will include experts in the fields of transportation, economics, and air pollution.

The panel is to complete its report within nine to twelve

months. Its specific assignments include: 1) a survey of the current state of electric automobile development; 2) an estimate of the feasibility of building practical electric automobiles; 3) a comparison of electric autos with other types in terms of performance and pollution; and 4) a recommendation of the government's proper role in developing electric vehicles.

Professor Robert Dicke of Princeton University has issued a challenge to Einstein's Theory of Gravity, published 50 years ago, and unchallenged until now. Einstein's more famous Theory of Relativity is not under scrutiny, nor does it appear that any possible errors in the gravity theory will involve relativistic principles.

The Theory of Gravity successfully explained the unexpected behavior in the orbital properties of the planet Mercury as well as other inexplicable phenomena. However, Professor Dicke contends that the observations which have "proved" Einstein's theory have not been made with enough precision to give satisfactory proof. He specifically argues about the changes in the orbit of Mercury.

Most of the changes in the perihelion point, (that point of the orbit which is closest to the sun) of Mercury's orbit had been explained by classical astronomy, such as gravitational interactions between other planets. However, a rotation of 43 seconds of arc per century was unaccounted for before Einstein.

Einstein's calculations correctly predicted this 43 second rotation and were assumed to be correct. Now Professors Dicke and Goldenberg of Princeton have made more exact calculations of this problem. They have found that the sun is not spherical, but like the earth, is squashed at the poles. Thus the gravitational effect of the sun on Mercury is different than had been assumed before.

With this new assumption, Professors Dicke & Goldenberg have shown that only 39 seconds of arc are unaccountable by classical means, and that using the "squashed sun" concept, Einstein's calculations predict a rotation of 47.3 seconds.

Error too large
Dr. Dicke feels that the 8.3 second discrepancy may be too big to be overlooked. He is predicting that the Einstein theory will

(Please turn to Page 16)

Advertisement

THE BIBLE says:

It is appointed unto men once to die, but after this the judgment.—Hebrews 9:27.

So then every one of us shall give account of himself to God.—Romans 14:12.

Faculty committee to review SCEP reading period poll

(Continued from Page 4)

for one semester only. After that, a final decision will be reached about whether the extension was worthwhile. Thus, SCEP will take a poll this week to evaluate the effectiveness of the past reading period. A similar poll will be taken at the end of this semester, when the extension will be in effect, and the results will be compared. These results will be shown to the Faculty Committee on Academic Performance so

that they may assess the general usefulness of the reading period. So please fill out and return the completed poll as soon as you receive it.

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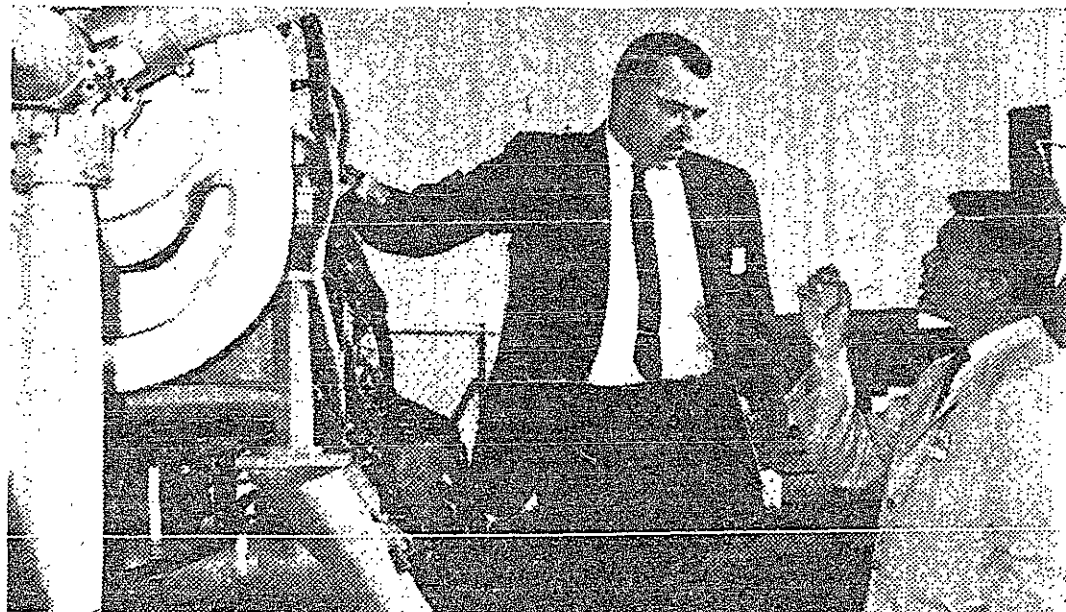
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Sign up now in the Placement Office for interviews. An AiResearch representative will be interviewing on campus Monday, Feb. 13

Blood drive set up to meet slack time in Massachusetts

(Continued from Page 1) community because MIT is credited with the amount of blood it donates. Any member of the MIT community or member of his immediate family may be given blood for transfusions free as long as the supply lasts.

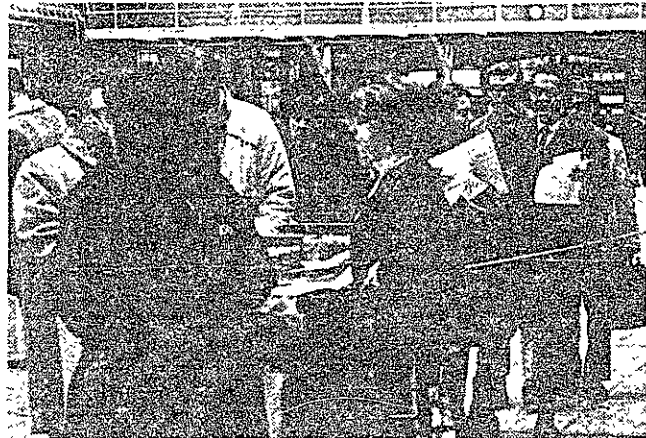
Significance of drive

It is also significant to note that the blood drive will be conducted at a time when the Massachusetts

blood bank supply is normally low. Thus, the contribution from MIT will form a large percentage of the state's supply of blood during a two-week spring period.

Blood will be taken in the Sala de Puerto Rico of the Student Center. During solicitation week, there will be an information booth in the Lobby of Building 10. Parental consent is needed for student donors under 21, unless blood was donated the previous year.

The Registration Day Wait



Photos by George Flynn

All is normal on Registration Day! Even at 2:40 in the afternoon, the lines are still forming as the eager students try to get their roll cards. However, once roll cards have been procured, the rest of the day will be a snap. Oh, yeah? Despite recent improvements brought about by the Coop's move to the Student Center, they haven't managed to eliminate the lines for texts.

Selective Service poll

Students dissatisfied with draft

By Don Minnig

The results of a student poll on the Selective Service have been released by the United States National Student Association. These were presented to a group of leaders of a variety of youth and student organizations attempting to

formulate a successful alternative to the present system.

Results of poll

The most striking statistics drawn from this poll indicate that while more than 90 percent of American college students agree with the principle of military

conscription, more than 70 percent are dissatisfied with the present draft system. More than 70 percent of those questioned would prefer the equal alternative of non-military service in such organizations as Vista, or the Peace Corps; 60 percent do not support student deferment.

Mr. Eugene Groves, President of USNSA, remarked on the remarkable consistency of the results of the referenda held on twenty American campuses. "The diversity of the schools responding makes the consistency of the results even more impressive," he said. The poll was administered at institutions varying from the Universities of Minnesota and Michigan to Bennington and St. Mary's Colleges and geographically ranging from Harvard to San Francisco College for Women. The opinions of 30,500 students were sampled. This constituted approximately 31% of the 99,000 total student population of the twenty-three campuses included.

Justice of conscription

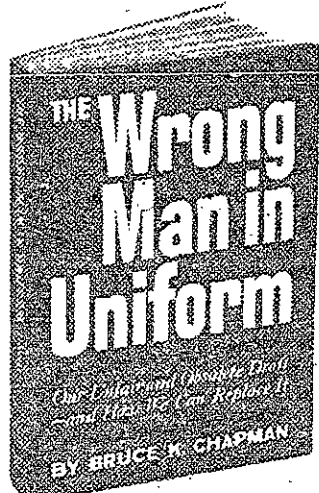
On the question of the justice of military conscription, Mercyhurst College showed the most support with a 99% "yes" vote while Valparaiso University was least enthusiastic with only 74% affirming support.

Lottery

The lottery was least favored in all cases, receiving its greatest support, 13%, from Marquette University and North Park College. Only 24% of the Bennington voters felt that class rank was a fair criterion for student deferment, while 57% supported this at North Park College.

Universal student liability as opposed to partial liability was supported most strongly by Marquette University, 71% affirming support; it was least favored by the College of Wooster, Ohio, 25% voting "yes." Forty-seven percent of Simmons College students polled supported unconditional universal student deferment, with only 17% of Mount St. Mary's College voters supporting it.

There were wide extremes of opinion on most questions on different campuses.



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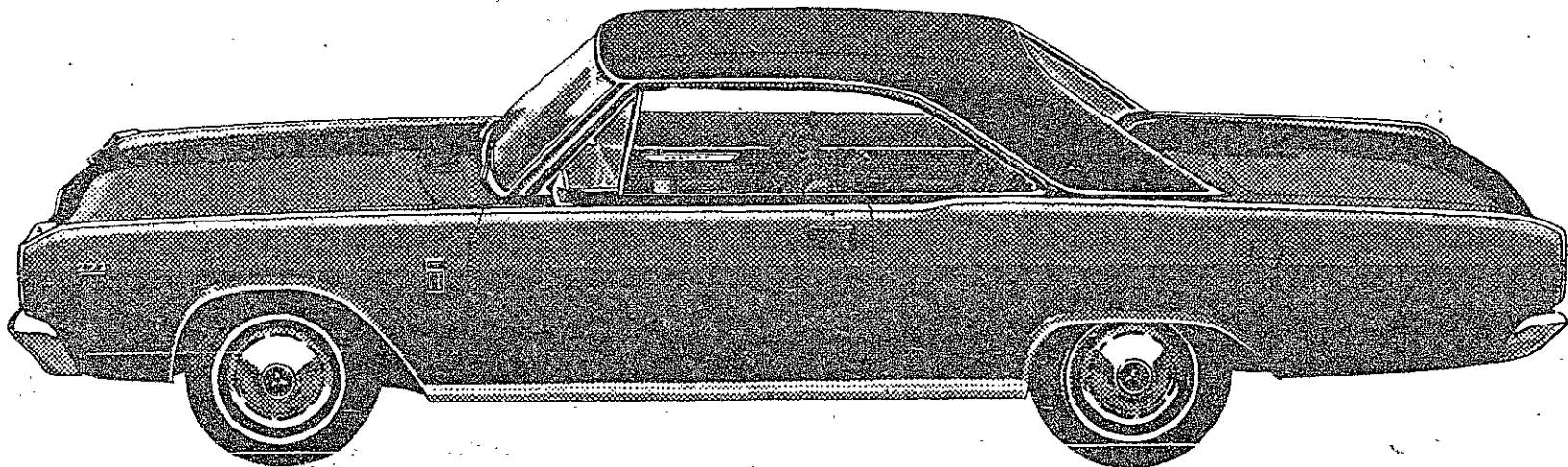
I'm a well-known composer, and I need a new car. The trouble is, I'm just too Bizet to pick one out. And what's more, many of the new cars I see are Offenbach in the garage for repairs. But I do have a good friend who is pleased with his new '67 Dodge Dart. He was given an excellent deal and Berlioz any money on it. My Bach is to the wall. Can you help me?

LUDWIG

DEAR LUDWIG:

My advice is that you let yourself Ravel in the enjoyment of driving the sporty, all-new Dart for '67. You'll find its Liszt price is a lot lower than you'd expect. And even though it's longer outside and bigger inside this year, Dart's still an easy car to Handel.

Sincerely, Reb



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College World

By Leland Shaeffer

By Leland Shaeffer

The younger generation, those people twenty five years young or younger, have recently been awarded Time Magazine's Man Of The Year Award. Most people are very happy to win this award (which has been awarded to individuals in the past) but the students at the University of Chicago viewed the accomplishment with indifference. One student, when told that he had won the award, simply said, "You must be some kind of a nut." Another had this reaction: "Whose copy of Time is that?" One monetary minded man replied, "Is it a cash award?" Even if it had been, he wouldn't have received much after it was split 90 million ways.

Second year history major Sue Grosser felt she has earned her share of the award by "shoveling more horse manure than anybody else." Junior Paul Levin also has a reason for his winning the award: "studiously avoiding Time Magazine."

At least one student spurned modesty when describing his achievements. Fourth year Biology major Alan Bloom thought he was outstanding "for bringing to this (University of Chicago) campus — to American campuses in general the concept of being against the establishment. You see, there's a problem of conformity in American universities. Tonight I am one of the most unpopular people on this campus, because I have realized that the establishments — left, right, and middle — are wrong. They don't use their minds and I am one of the only people around who uses his mind."

The typical reply was that of a younger biology-science major who, when asked why he thought he was Man of the Year, replied, "I've got long hair."

A wet wait

"It's the dumbest thing I ever did," exclaims Michigan State University sophomore Russel Felzke. This is Felzke's reaction at his recent feat of breaking an individual shower marathon record of 66 hours. He spent 100 hours in a dormitory shower.

It all began one Thursday morning at 10:00 "When I opened my big mouth at the wrong time," (although he says he would have done it anyway). He got out at 2 am the following Tuesday, but the fact that he had just set a record was forgotten when he realized he had three exams and a paper due the same day.

His skin turned white soon after he entered the shower, and shrank every night during a six to eight hour nap. After 70 hours his body began to chap and turn red. Worse than that, however, he was told about the hot water bill.

Felzke was popular with his friends after getting out, but unfortunately for him they celebrated — by throwing him in the shower.

Old smokey

What would you do if you had an old, unused smokestack that would cost more to tear down than it was worth? The Indiana Institute of Technology recently had that problem — so they ran a contest among the students to see who could come up with the best use. The contest is still raging, and suggestions range from converting the stack into a vertical wind tunnel to building sever-

al floors in the bottom, run an antenna up through the top, and making it into a ham shack.

"Outfoxes" himself

When Paul M. Kaplowitz became president of the Day Student Council at New Haven College, West Haven, Connecticut, last September, he pushed for a reorganization of the Student Court. His efforts were successful, and he was one of the first to feel the impact. The court recently found him guilty of six parking violations, and fined him \$24 and an additional \$8 if the \$24 is not paid within two weeks.

Final fever

Final exams are important at any college offering them, and many students who must stay awake for long periods of time to study often resort to drugs to make it easier on them. Unfortunately some drugs have harmful side effects, and students at the University of Chattanooga (Tennessee) discovered some of the more unusual properties of dexadrine (which, ironically

enough, doctors say decreases — rather than increases — the student's ability to learn).

One student passed out in the shower and another, after prolonged use of the drug, was plagued by an hallucinatory chipmunk. Those taking the actual exams while under the effect of dexadrine suffered more. One man failed to turn the page in his bluebook as he wrote and turned in a single page of torn jumble. An American History student filled the entire book with her name. Having lost all conception of time, still another student spent the entire exam period on the first question of a ten question exam.

Students are now advised to stick to coffee.

A recent attack on a University of Manitoba coed had an unusual twist and a not too unhappy outcome. The coed says she was walking around the campus when a man jumped out at her from behind a parked car, grabbed her

(Please turn to page 17)

Einstein's theory continued

(Continued from Page 14)

need to be modified, although it is too early to tell for sure.

Dr. Dicke is now working on a new theory, a tensor scalar theory, which correctly predicts the 39 second rotation of Mercury's perihelion point. Dicke's theory has a non-constant gravitational constant, unlike the Einstein theory. The newer theory has gravity growing weaker as the universe evolves.

Einstein out? ? ?

If Dicke-Goldenberg observations of the sun are confirmed by others and their interpretation of them is correct, the Einstein theory may be on the way out. It is too specific a theory to allow for changes which take account of slight errors.

Einstein realized this aspect of his theory when he said: "The chief attraction of the theory lies in its logical completeness. If a single one of the conclusions from it proves wrong, it must be given up; to modify it without destroying the whole structure seems to be impossible."

Dr. Dicke discounts that his new

theory will bring man any closer to Einstein's supreme goal—a unified field theory. This theory would be able to explain all material phenomena from the subatomic to the intergalactic. Dr. Dicke commented: "We are a long way from that."

Dr. Nygreen of Hunter College talks before IFC

The January meeting of the IFC was held Thursday, Jan. 12, at the Charter House. The Guest speaker, Dr. Glen T. Nygreen, Dean of Men at Hunter College spoke after dinner.

As a peer, a professor, a parent and a member of the public, Dr. Nygreen commented upon the fraternity's role in the changing society to which we belong. He made two concrete suggestions, that the fraternities adopt a clear statement of policy identifying themselves with the Institute, and that they apply a research approach to the problems that they face today.

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College World

(Continued from Page 16)

bottom, and yelled, "Yummy." She managed to escape and successfully hide under a haystack in a nearby barn.

"At first I thought it was a girl," the coed explains, "but when he squeezed my bottom I realized it was a man in a kilt. He had very hairy legs, but his knees were kind of cute.

"All he said was, 'Yummy'."

Ohio State University dropped a planned course in farm management due to lack of applicants. The course was to be for two months and was intended to show farmboys the most efficient ways of running their farms.

School officials said that the lack of interest stemmed from fears that the farmer's draft deferments might be taken away if they left their farms for even two months.

Malnutrition conference set

Experts in nutrition, education, and related specialties from all over the world will converge on MIT on March 1 to begin a three-day conference on the effect of protracted malnutrition on man's ability to learn and general behavior. The conference, officially designated the International Conference on Malnutrition, Learning, and Behavior, is jointly sponsored by the MIT Department of Nutrition and Food Science and the Nutrition Foundation, Inc.

Dr. Nevin S. Scrimshaw, head of the Department of Nutrition and Food Science and conference chairman, said that the purpose of the conference is "to examine the slowly growing body of evidence suggesting a significant relationship between early malnutrition in human populations and subsequent alterations in performance on various tests, on learning and on behavior.

"It is recognized that the evidence from experimental animals is much better and easier to interpret than the fragmentary and frequently confounding observations on human populations.

"Nevertheless, the subject is of such importance to both the developing countries and to the nature of national and international efforts to assist their economic and social development that an international conference of this sort can be of very great value."

The conference, which will be held in Kresge, will open with a presentation of background material on the morning of Wednesday, March 1. Wednesday afternoon will be devoted to the consideration of biological factors in the development of the central nervous system.

On Thursday morning, the emphasis will shift to the effects of malnutrition on development and behavior, to be followed by a discussion of social environmental factors affecting learning and behavior in the afternoon. Friday morning the theme will be the ecology of malnutrition, learning and behavior, to be followed that afternoon by the field study of malnutrition, learning and behavior.

Members of the MIT faculty who will be participating in addition to Dr. Scrimshaw include Dr. Sanford A. Miller, Dr. Alan Hein, and Dr. Joseph Altman.

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Value of teachers

Learning process examined

How much does a teacher teach, and how much does he impede the learning process?

'Machine' gives answers

Two Cambridge experimenters have attempted to answer this question by giving students a "machine" which gives answers. Their results show that youngsters gain a grasp of science far beyond that which they receive in the classroom and that the students enjoy the experience.

These are the conclusions of Edwin H. Land, president of Polaroid Corporation who is Visiting Institute Professor at MIT, and Stewart W. Wilson, a graduate student at MIT, as written in the January issue of Technology Review.

While in conventional science education, the teacher dominates the lesson and sometimes loses the interest of his students, the ideal way of learning a subject from a student's point of view, is to discuss the material with an expert.

Extra-curricular studying

In their experiment, Dr. Land and Mr. Wilson selected a group of 13- and 14-year-old boys who volunteered to participate in the experiments. After school hours, they, one at a time, had a chance to use the experimental machine which could answer questions on atomic physics or astronomy. The machine consisted of tape re-

cordings which played the appropriate tape when it received a question. The boys could interrupt to question the machine at any time, using a control panel on which they could signal for repeats, skips or more information.

These sessions lasted an average of two hours, and the participants enjoyed them.

Follow idea, then switch

This preliminary study has shown that the willingness of a student to work at a subject depends on the attitude of the teacher. In the author's words, "students want to structure knowledge in their own way. They want to follow an idea for a while, until they are surfeited, so to speak, and then pick up another idea. They do not honor the logic which centuries of work has structured a subject, because they do not feel that peculiar and single logic in themselves."

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Ski bumming**Stowe, Waterville attract skiers**

By Ted Nygreen

Now that the weatherman has finally decided it's really winter, New England ski areas are looking as good as ever. The recent storm which dumped a foot of snow on Boston brought smiles from all skiers, both novice and expert, as well as from the pleased owners of the major eastern areas.

Although the storm was almost enticing enough to lure students away from classes during the week, a good number of students made trips last weekend when the excellent conditions were surpassed only by the record crowds.

Stowe**"Ski Capital of the East"**

Five hours away by car, Stowe offers a wide range of excellent skiing even when closer areas are experiencing a periodic winter thaw. The day I was there was highlighted by the Eastern Class A downhill races, which added a bit of excitement to an afternoon of skiing on the smaller of the two mountain complexes, Spruce Peak. The basically Southern exposure of the trails on sunny Spruce Peak made skiing in only a sweater quite enjoyable.

With two mountains to handle a large number of people, lift lines were seldom longer than 3 to 4 minutes, and at \$8 per day for lift tickets, short lines are very much appreciated.

However, Stowe's fame rests on certain other features which weekend experts will certainly want to take advantage of. First and foremost, the internationally famous trails of the towering Mt. Mansfield offer the challenges you look for in a major ski area, whether you are an expert or an intermediate. From the tougher than average intermediate trails such as Tyro and Standard, to the precipitous drop-offs like National and Nose Dive where experts fear to tread, Stowe's Mt. Mansfield is the mainstay of the "Ski Capital of the East."

Secondly, and as large a contributor to Stowe's reputation, the

6-mile road that leads from the base of any lift was often as high as 45 minutes. It is surprising that this was the first time Waterville Valley has had problems with lines as there is really only one major lift serving the majority of the area.

Opening just this year, Waterville Valley in northern New Hampshire has made quite a name for itself, offering a variety of trails and slopes, a convenient location, and a reasonable price.

But all the publicity that it is such a well-planned area capable of handling 6500 skiers per hour is worthless when all attendance records are broken. Last Saturday over 4000 cars were counted in the lots, and the wait at the

base of any lift was often as high as 45 minutes. It is surprising that this was the first time Waterville Valley has had problems with lines as there is really only one major lift serving the majority of the area. Nevertheless, the snow was excellent, and the trails were well kept up. Lift tickets are \$6.50 weekends and \$5.50 mid-week, and the driving time from Cambridge is only about two hours. With a large novice area, a well-planned intermediate section, and expert runs running the 1½-mile mountain, Waterville Valley is sure to become a local favorite of Week-day Bostonians.

Women fencers edge Wellesley; Triangular meet here next week

The women's fencing team, Junior College of Maine Feb. 18, at 2 pm, here.

one point to Boston College and Brandeis, won their meet against Wellesley before vacation. The final score was MIT 5, Wellesley 4.

Their next competition will be a triangular meet with Rhode Island College and Westbrook

Positions are now open assistant managers for sports, the athletic department announced today. Anyone interested should see the manager of the sport involved.

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disproves Lincoln Labs**

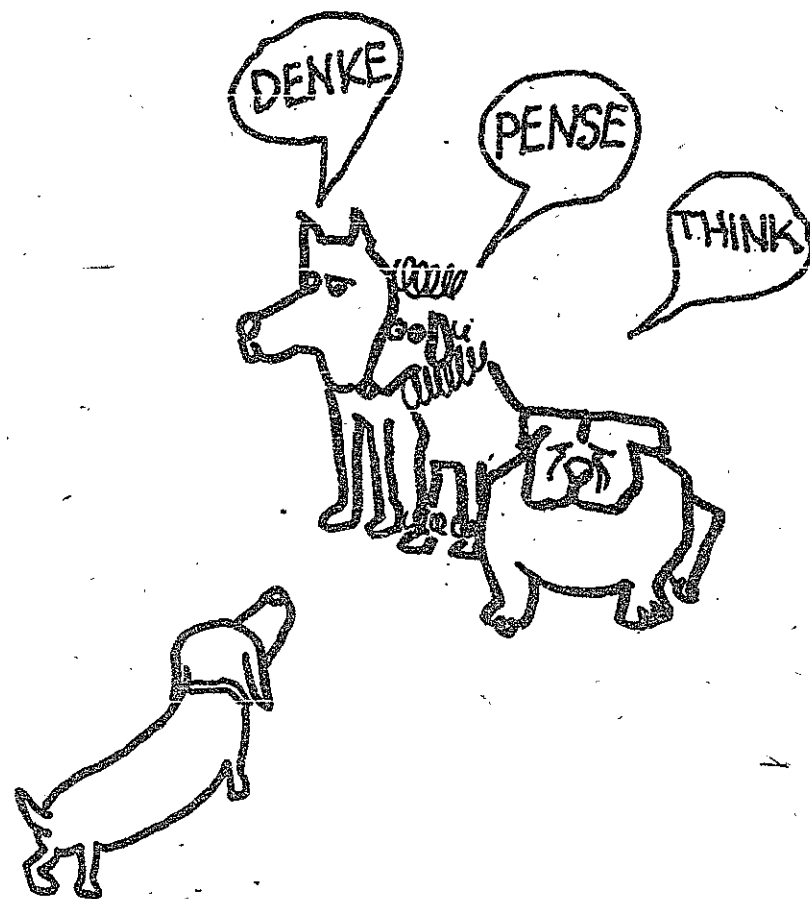
Conclusions based on an MIT-Lincoln Laboratory lunar study of last year have been proved conclusively to be false. A radar study made by Lincoln Labs of the moon's surface a year ago revealed that it was made up largely of a dust layer. This led many scientists to suspect that the moon's surface was very heavily dusted — perhaps many layers deep, which have accrued over the centuries.

Recent close-up pictures show that the moon's surface is largely made up of rocks, which is evidence to disprove conclusions of the Lincoln Lab study.

The theories promulgated have been an attempt to explain the crater formations seen on the moon. One theory says that the craters are a result of meteor bombardment over the centuries. The other prominent theory says that they are a result of volcanic activity under the moon's surface.

Also, they have suggested that there is, perhaps, much volcanic activity still going on beneath the moon's surface. This has been substantiated by the recent discovery of "hot spots" on the surface. Also "blocks of material seen by lunar Orbiter spacecraft are arranged in ways which suggest they may be volcanic in origin."

While the "dust layer" theory has been disproved, there is still much data which must be gathered in order to support all the particulars of the "hard rock" theory.



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Chui defends table tennis title in New England Singles Tourney

Lim-Ming Chui '70 has scored two impressive victories in ping pong over the recent term break. Chui, from Hong Kong, successfully defended his New England Singles Championship on January 29 at Providence, Rhode Island. Lim-Ming won his first New England title last October. This year's tournament consisted of 60 of the top table tennis players in the New England area. Chui went undefeated through seven oppo-

Outpointed 18-15

JV grapplers fall to RI

By Arm Varteressian

The JV matmen were edged out by a strong Rhode Island College varsity Wednesday to drop their record to 3-1. The final score was 18-15.

The meet got off to a poor start at 123, as Rober Chang '69 was pinned by Manny Binhateiro in 4:45 of the second period. However, Ed Tripp '67 wrestling at 130, got the engineers back on the winning track, as he took his opponent, Chris DeSessa, down in 8 seconds and racked up 7:45 of riding time to gain a 6-0 win and one of the most impressive victories of the meet.

Get 2 more pins

At 137, John Reynolds '67 lost to Ed Gomes, 6-0. But, the engineers came back with two near pins in consecutive matches, as Tom White '69 beat Robby Haigh, 9-2 in their 152-pound match. Jeff Smith '68 followed this by beating Tom DiPippo, 12-2, and suddenly the Beavers were back in contention. Either of these matches could have been won by pins very easily.

Don Pryor '68 at 167 beat Bertie Deloud, 6-0 to keep the victory skein going. However, Tech was forced to forfeit at 177, as there

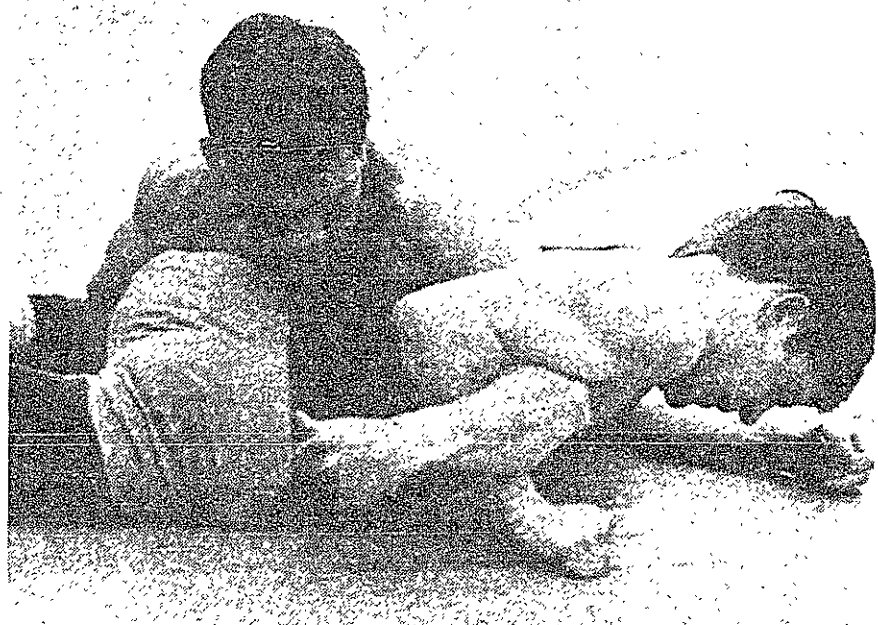


Photo by George Flynn

Don Pryor '68 tries to move Bertie Deloud of Rhode Island into position for a pin in their 167-pound match Wednesday. Pryor went on to win the match, 6-0, but the JV's lost their first of the season, 18-15.

was no one available to wrestle that weight class.

In the heavyweight class, the most exciting match of the meet occurred, as Tom Garvey '68 edged John Cotugno, 5-4 on riding time. Garvey was down 4-1 going into the final period, but he quickly took his opponent down to knot the match at 4-4, and held on to gain enough riding

ly got an escape. Then, wrestling time for the needed extra point which gave him the match.

With their record now at 3-1, the Jayvees still stand as one of the top Junior Varsity teams in the area. Only three matches remain, and the team is hopeful of giving coach Wilt Chassey a 6-1 record to remember. They will attempt to get back on the winning road Tuesday, when they take on Stevens Business College here at 7:30. The team looks to do much better in that meet than they did in this one.

Schedule is set by Bridge Club; 13 games planned

The schedule of duplicate games at the MIT Bridge Club for the coming term is:

- Feb. 11 Full master point game
- Feb. 18 Fractional master point game
- Feb. 25 Eastern Intercollegiate Bridge Tournament—two-session open pairs championship
- Feb. 26 Eastern Intercollegiate Bridge Tournament—two-session team-of-four championship
- March 4 Full master point game
- March 11 Fractional master point game
- March 18 Open Pairs Club Championship
- April 8 Full master point game
- April 15 Fractional Master point game
- April 22 Board-a-match Team-of-four Club Championship
- April 29 Fractional master point game
- May 6 Full master point game
- May 13 Fractional master point game

The pair of Bart Bramley '69 and Bob Creecy '70 was inadvertently omitted from those who qualified for the regional playoffs of the National Intercollegiate Bridge Tournament.

On Deck

Friday, February 10

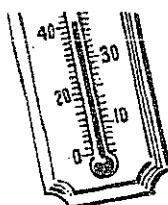
- Basketball (JV)—Harvard, away, 6 pm
- Rifle (V)—Boston U., here, 6:30 pm
- Squash (V)—Seton Hall, here, 7 pm
- Indoor Track (V&F)—Greater Boston
- Skiing (V)—EISA Intermediate Championships at Norwich
- Saturday, February 11
- Basketball (V)—Wayne State, here, 8:15 pm
- Basketball (F)—Harvard, here, 6:15 pm
- Swimming (V)—Trinity, here, 2 pm
- Swimming (F)—Babson, here, 3:30 pm
- Squash (V&F)—Trinity, here, 2 pm
- Indoor Track (V&F)—Greater Boston
- Skiing (V)—EISA Championships
- Wrestling (V)—Coast Guard, away, 3:30 pm
- Wrestling (F)—Coast Guard, away, 2 pm
- Fencing (V)—Brooklyn College, away, 2 pm
- Hockey (V)—Bowdoin, away, 4 pm
- Gymnastics—Yale, here, 2 pm

Cambridge Boat Club awards crews trophy for finishes in regatta

The final results have been announced from last fall's Head of the Charles Regatta. Tech's varsity crews have been named the recipient of the Paul Revere Bowl, which is awarded annually to the crews that scored the best total place finishes.

The engineers were represented by both the heavyweight and lightweight eights. The award will be presented at a banquet on February 11, hosted by the Cambridge Boat Club.

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The Benchwarmer

Sophomore merman rated best in history of swimming at Tech

By Paul Baker

"I rate him the best all around swimmer in the history of the school. He can do just about everything." Thus MIT swimming coach Charlie Batterman praises a 5-11, 155-pound sophomore swimmer from Costa Rica, Luis Clare.

Last year, Luis broke three freshman records, and this year he continued to demonstrate his outstanding ability. Already Clare has smashed the varsity backstroke and individual medley marks. The amazing thing about Luis is his endurance. Every day he works out from two to two and a half hours, about twice as much as any other Tech swimmer.

Swims two straight events

Coach Batterman recalls, "I had him entered in back to back events in one meet. He won the first, only had a few minutes rest and then knocked two seconds off our school record in the second event."

Besides excelling in athletics, Clare is also a fair student. He carries a 4.8 cum in civil engineering. Not bad!

To try English Channel

Luis started swimming when he was six. When he was nine he joined a swimming club, entered competition, and has been at it ever since. He has competed in most Central American countries and last summer he swam in California. One thing he hasn't done is swim in salt water. Luis said, "I'm going to try it next summer. I'm going to go to Europe for sure. While I'm there I want to see what the water is like in the English channel. There's a chance I may try to swim across it."

While he was at home for the Christmas holidays, Luis entered a meet and set a Costa Rican record in the 200 meter backstroke with a time of 2:23.

Luis first considered entering MIT when he was attending Chauncey Hall School in Boston to improve his English. He is undecided about his career. He plans to get an engineering degree and then may go to medical school.

One record unrecorded

Tech is currently enjoying a 5-2 record, and with Luis returning for two more seasons, we can anticipate more of the same in the future. Luis' career as a swimmer has already been successful; however, ironically, he can think of the two records he cracked which will never be recorded. Twice he bested the MIT record for the 500 yard backstroke, but both times he placed second.

Tech fencers edged by Crimson; determined to win New Englands

By George Wood

MIT fencers were just edged out by Harvard, 14-13, Wednesday night at Harvard. Tech fencers set out to avenge their earlier 22-5 loss to Harvard and almost pulled the upset of the year, despite the fact that Harvard has one of its best teams ever. MIT has not come this close to Harvard since 1953 when Harvard lost 13-14 to MIT.

MIT got off to a good start, with Frank Carroll '69 winning the first sabre, 5-3. Tech fencers led 2-1 at the end of the first round of sabre.

The second round proved fatal for MIT, with Harvard ahead 11-7 going into the third round.

Frank Carroll lost the first sabre bout of the second round 5-4 in one of the closest matches of the night. Curt Marx '68 then easily won his first sabre bout of the meet, 5-0.

The second round of foil went 2-1 for Harvard, as the Tech fencers stayed close to the famed Harvard foil team.

Leonard Zucker pulled the upset of the night as he beat Musliner in foil. Musliner is Harvard's best foil fencer and one of the best in New England. MIT swept the last round of epee. Captain Bill Murray, who was undefeated in the meet, won his third bout easily by a score of 5-1.

Bjaaland fourth in Easterns

The varsity skiers, coached by Bill Morrison, were active during intersession with a training camp and three meets. Fifteen skiers participated in a training session which preceded the competitions. The team then went to the Putney Relays, where they finished 12th out of 23 teams. Helge Bjaaland '67, who has established himself as one of the top skiers in the East, had the third best time in the Relays.

The B and C class skiers then went to the Harvard Wildcat meet, and Alpine competition. The Tech racers were hampered by a poor seeding, but Rik Anderson '69 managed to turn in a good performance. In the meantime, the 8-man Nordic team competed in the USEASA championships. This cross-country meet was held at St. Lawrence U. as part of the

annual St. Lawrence Carnival. Bjaaland, enjoying his best year, took 4th in the race. Coach Morrison was also pleasantly surprised by the performances of Hans Fritzvold '68 who finished 40th, and Doug Cale '69, who placed 42nd.

Bjaaland leads team

The team has fared well this season, considering the fact that only 4 lettermen returned from last year's team. Bjaaland, the senior ace from Oslo, Norway, has led the way, and seniors Dick Haberman and Paavo Pykkonen also bolster the strong Nordic team. Coach Morrison, one of the youngest ski coaches in the nation, has promising sophomores such as Doug Cale in cross-country and Rik Anderson in the Alpine events.

Next week the skiers go to Nor-



Photo by Gene Skrabut
Helge Bjaaland '67

wich for the EISA intermediate championships. The nordic team, as usual, has high expectations. The freshmen will also go to the NEISA Thompson meet at Glen Allen. Other February meets for the varsity include the EISA Senior Championships at Williams, the New England College Carnival, and a dual meet with Colby. Finally, on March 3 and 4, the NCAA championships will be held at Sugarloaf, Maine.

Lambda Chi tops NRSA in IM basketball playoffs

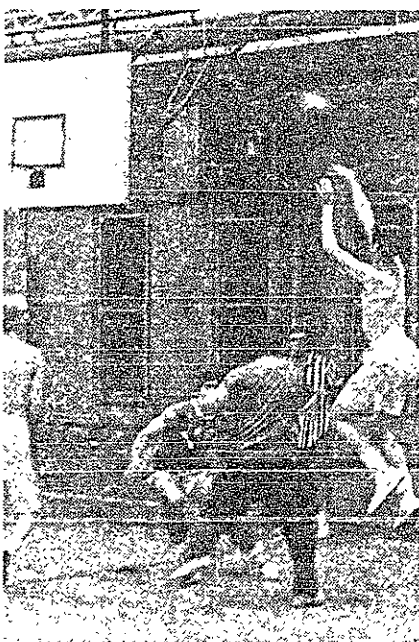


Photo by George Flynn

Bruce Twickler '67 of LCA takes a shot in the game with NRSA. The Lambda Chi's won, as Twickler was hot.

The first round playoffs saw favored Lambda Chi Alpha emerge the victor over N R S A. Bruce Twickler led all scorers for the Lambda Chi's.

ZET loses in hockey

In the most important IM hockey game to date, SAE downed ZBT 3-2, Wednesday, February 8. The SAEIors dominated the whole game, managing to keep the puck on their end of the rink

for a majority of the time. When ZBT obtained possession, SAE was able to affect fast breaks to return the puck to their ice.

The SAEIors were first to score as both Steve Queeney '67 and Dick Sidell '65 netted a goal apiece. Most of the second period went scoreless until ZBT's Hank Goldman put ZBT on the scoreboard with a goal with 37 seconds remaining in the second period.

Eight minutes into the last period, Chuck Green '68 tied the score at 2-2 by netting a goal. However, the SAEIors rallied as Carl Brainard '69 scored the tie-breaking goal with three minutes remaining in the third period. Both teams had been undefeated prior to the game, and now SAE will move ahead in the standings.

BSAC leads in CHL; Civil Engineering 2nd; McLaughlin top scorer

Standings and scoring leaders in the Community Hockey League through February 5 have been released.

Standings	W T L Pts					Gf Ga	
	W	T	L	Pts		Gf	Ga
Beacon St. A.C.	6	3	2	15		53	28
Civil Eng.	5	1	3	13		38	26
Habitants	3	2	6	8		33	44
Instr. Lab.	2	2	6	6		38	54

Leading Scorers				G A TP M	
	G	A	TP	M	
1. McLaughlin (BSAC)	11	11	22	4	
2. Peckersgill (BSAC)	8	10	18	2	
3. Catto (Hab)	15	1	17	0	
4. McPhail (CE)	11	6	17	0	
5. Pecknold (Hab)	9	9	14	0	
6. Cederone (BSAC)	9	5	12	2	
7. Duffy (LL)	7	5	12	2	
8. Silver (CE)	7	5	12	4	
9. Wood (LL)	7	3	10	6	
10. Swift (BSAC)	6	4	10	5	

ECAC names Roy Talus to weekly All-Star team

By Tony Lima

Roy Talus '67 has been named to the weekly Eastern Collegiate Athletic Conference College-Division All-Star team. He was given this honor for his performance in the New Hampshire game, where he scored 20 points and had five steals.

This award is the high point of an amazing athletic career. As a freshman, Roy played basketball, and did it very well, averaging 16.6 points per game. He was also on the track team, where he specialized in everything, running the 440, '880, mile and two-mile. He also competed in the broad jump, high jump and triple jump.

As a sophomore, Talus couldn't get off to the right start on the varsity basketball squad, and quit the team after seeing limited action.

Goalie in soccer

At the beginning of his senior year, Talus decided to give soccer a try. He went out for the squad, but was not too optimistic about his chances, because he had never played the game before, and also because he had been away from athletics for two years. However, in coach Bill Morrison's opinion, he had great potential as a goalie because of his good hands and fast reflexes. The season told the story of Roy' progress. He was the outstanding athlete on an otherwise mediocre squad. Three of Tech's four victories were due to the fact that he turned in shut-out performances. His greatest day was the 1-0 win over Springfield, first for the engineers in the forty-five year history of the

competition. Talus went on to record 214 saves in 11 games, and allowed 2.4 goals per game.

Averages 8 per game

After his success in soccer, Roy decided to try basketball again. But, after a two-year absence, his chances seemed almost nonexistent. In the opening game against Trinity, Tech's lead was being shaved in the final minutes. Roy pumped in 16 points, and the Beavers held on to win, 76-75. Since then, he has averaged 8 per game in 16 games, while helping the cagers to a 14-3 record and a chance for a NCAA post-season birth.

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