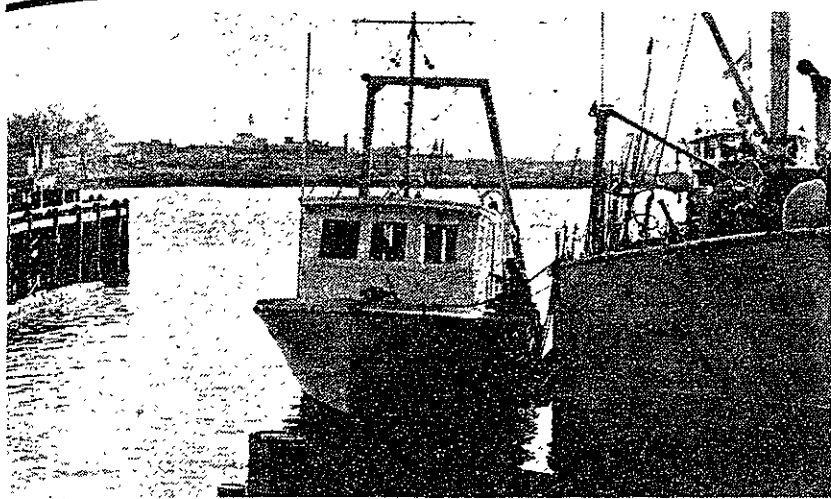


Launched this week . . .



View above shows majestic view of MIT's newly acquired Navy. The boat, that is, not the raft. At the right is a vessel of the Woods Hole Oceanographic Institution, which conducts research in cooperation with MIT.

'R.R. Shrock' becomes first boat of MIT Navy

By John Corwin

MIT now has a Navy. The R. R. Shrock, a fifty-foot boat, went into service this week as the first oceanographic vessel of the Massachusetts Institute of Technology.

The boat, which was built by the United States Navy in 1955, has been loaned to the Institute's Department of Geology and Geophysics and outfitted in a boatyard in Chelsea, Massachusetts. It will be used for research, chiefly within the area west of a line from Cape Ann to Cape Cod.

Joint effort with Woods Hole
Oceanographic research has been conducted by MIT professors and students in cooperation with the Woods Hole Oceanographic Institution for a number of years, and cooperation is expected to continue, especially in deep sea research.

Capt. Payson is manager
Captain Harold Payson, Jr., who served in the Navy from 1927 to 1961, will serve as first official manager of marine operations of the MIT navy. The Captain received his degrees from the United States Naval Academy at Annapolis, and Oxford University, and, after retiring from the Navy, earned a Master's Degree in oceanography at the Institute.

Under his direction, the new vessel will enable MIT staff members and students to pursue studies in local waters from nearby facilities.

Local research
In addition, a group of graduate students, under the supervi-

sion of Geology Professor Ely Mencher, will use the boat to undertake research on sedimentation in Boston Harbor.

Professors Dayton E. Carritt and William S. von Arx will work closely with another group of students in the study of characteristics and composition of the ocean contiguous to the coast.

Finally, Dr. Harold E. Edgerton, professor of electrical engineering, will find the boat helpful for his coastal surveys of the ocean bottom with recently developed sonar devices.

Equipment
The R. R. Shrock, formerly an underwater ordnance research boat, has radar, ship-to-shore radio, and a fathometer. In addition, it has been equipped with a hydraulic A-frame lift on the after deck to be used in lowering buoys and other research gear into the water, and for launching a small boat, a Boston Whaler.

Named after department head
The boat was named after Dr. Robert R. Shrock, who has been a member of the MIT faculty since 1937. Dr. Shrock was Head of the Department of Geology and Geophysics for 16 years, and has played a key role in the development of oceanographic activity at MIT.

Dr. Shrock is an internationally-known authority on paleontology, and his geological investigations have taken him all over the world. He received his degrees at Indiana University, and taught at the University of Wisconsin for 7 years before coming to MIT.

Eleven seek JP Queen crown

Balloting for the 1965 Junior Prom Queen finalists will be in progress through Friday in the Lobby of Building 10. Voting is open to all undergraduates, and activities cards must be presented at the voting station. There are eleven contestants, from which 5 will be chosen.

The entrants

Ernie Ascherman, Phi Delta Theta, will host Jan Spinning of Endicott Junior College.

Tom Beutel, Alpha Tau Omega, will be accompanied by Susan Lee Hedin of Northeastern University.

Paul Flanagan, Phi Kappa Theta, will escort Maureen McNamara.

From the School of Nursing at the University of Michigan will come Melinda Swanson to accompany William Flor of Lambda Chi Alpha.

Gary Garmon of Phi Gamma Delta will be host to Bobbie McCreary of Kensington, Maryland.

John R. Jamieson, Jr., of Baker House will be accompanied by Judy Butler.

Peter Kendall of East Campus will escort Carol Longiaru.

From Connecticut College for Women will come Nancy Miller to be escorted to the Prom by Ted Nygreen of Sigma Alpha Epsilon.

Ed Radlo of Burton House will be accompanied by Kathy Lapierre from Providence, Rhode Island.

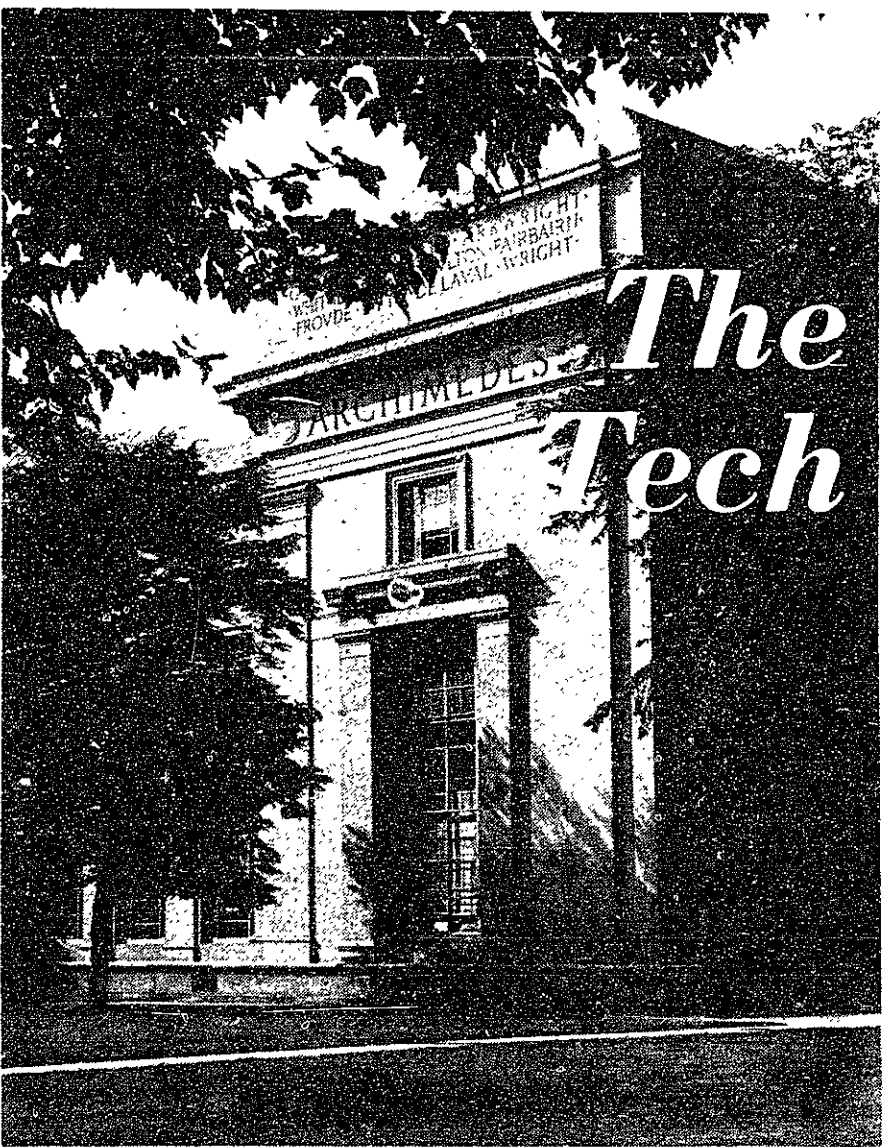
From Alpha Epsilon Pi, John Schwarz will be entertaining his date, Rita Harrington, from Martha's Vineyard, Massachusetts.

Paul Weatherly of Theta Delta

Chi will escort Nancy Wanderer of Wellesley College, Massachusetts.

Each of the girls named above is a date of a member of the MIT Class of 1967. Each of the fraternities on campus was allowed three entries.

Final choice of the Queen will be decided Friday evening, November 12, at the formal dance at the Boston-Sheraton Hotel. Judges will be members of the Beaver Key, Junior honorary society.



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Statistical description of MIT provided in Registrar's Report

The recently-released 1965 Registrar's Report for the academic year 1964-65 includes a general description of MIT by means of data, such as student registration, distribution of the staff by departments, and classification of students by major.

Last year there were 7,151 students registered in both the graduate and undergraduate schools.

The Faculty totaled 2,723 people, distributed as follows: 51 in the School of Architecture and Planning, 1,240 in the School of Engineering, 209 in the School of Humanities and Social Science, 153 in the Alfred P. Sloan School of Management, 966 in the School of Science, 82 labeled as miscellaneous, and 22 Faculty ex-officio.

School of Architecture & Planning
In the School of Architecture and Planning there were 101 undergraduates and fifth-year students in Architecture (IV-A), 34 graduate students in Architecture, and 58 graduates in City and Regional Planning (IV-B).

School of Engineering
3,112 students were registered in the School of Engineering with the following distribution among departments: Aeronautics and Astronautics (XVI), 190 undergraduates and 236 graduates; Chemical Engineering (X), 128 undergraduates and 166 graduates; Civil Engineering (I), 75 undergraduates and 207 graduate students; Electrical Engineering (VI), 619 undergraduates and 536 graduates; Mechanical Engineering (II), 163 undergraduate students and 278 graduates; Naval Architecture (XIII), 22 under-

graduates and 117 graduate students; Nuclear Engineering (XXII), 130 graduate students; and Center for Advanced Engineering (EN), 10 graduate students.

School of Humanities and Social Science

The School of Humanities and Social Science had 415 students with the following classification by departments: Economics and Political Science (XIV) (Political Science had not yet become a separate department), 75 undergraduates and 173 graduates; Humanities (XXI), 89 undergraduates and 15 graduate students; Modern Languages and Linguistics (XXIII), 42 graduates; and Psychology (IX), 21 graduate students.

Alfred P. Sloan School of Management

There were 416 students in the Alfred P. Sloan School of Management. Industrial Management (XV) had 123 undergraduate students and 293 graduate students.

School of Science

In the School of Science there were 1,994 students distributed as follows: Biology (VII), 101 undergraduates and 93 graduates; Chemistry (V), 116 undergraduates and 249 graduate students; Geology and Geophysics (XII), 26 undergraduates and 79 graduates; Mathematics (XVIII), 316 undergraduates and 136 graduates; Meteorology (XIX), 70 graduate students; Nutrition and Food Science (XX), 92 graduates; and Physics (VII), 422 undergraduates and 294 graduate students.

Also, there were 114 undesignated students and 907 first-year students.

Dr. Kindleberger discusses duties of faculty head

By John Corwin

Dr. Charles Kindleberger, recently elected Chairman of the MIT Faculty, reports that his office has been running smoothly.

As Chairman, Dr. Kindleberger represents the faculty to the Academic Council, composed of the MIT Deans, Vice-Presidents, Provost and President. He also is Chairman ex-officio of CEP (Committee on Educational Policy).

Kindleberger feels that his new position has brought him into "increased contact with life at Tech." He is still teaching, principally in the Graduate School.

He did mention that two topics of current interest are the proposed changes in the curriculum of the School of Architecture, and the nearing retirement of President Julius Stratton.

Dr. Kindleberger placed emphasis on improved communications between students and faculty, citing feedback as a valuable example. He is also interested in having students participate on more faculty committees.

Coop hosts event

Authors' Day termed successful

By D. B. Jodrey

Author's Day, sponsored jointly by the Tech Coop and John Wiley and Sons, Inc., was a great success, according to Mr. Alexander Zavelle, store manager.

Held last Monday at the Coop, the honored members of the MIT faculty whose books have been published by John Wiley and Sons, the world's largest scientific and technical publisher. W. Bradford Wiley, president of the firm, and Mrs. Wiley headed the representatives of the firm at the function. Refreshments were served from 10 a.m. to 4 p.m.

Students meet faculty
According to Mr. Zavelle, manager of the Coop, the main purpose of Authors' Day was to give the students a chance to meet the faculty and the authors of the textbooks which they use. Among those in attendance were Professors Richard B. Adler, Martin J. Buerger, Murray F. Gardner, P. E. Gray, Kerson Huang, Y. W. Lee, William N. Locke, Ernest Rabinowicz, Eugene Rabinowitch, C. L. Searle, A. C. Smith, R. D. Thornton, and Henry J. Zimmerman.

Reception held
On Monday evening a reception

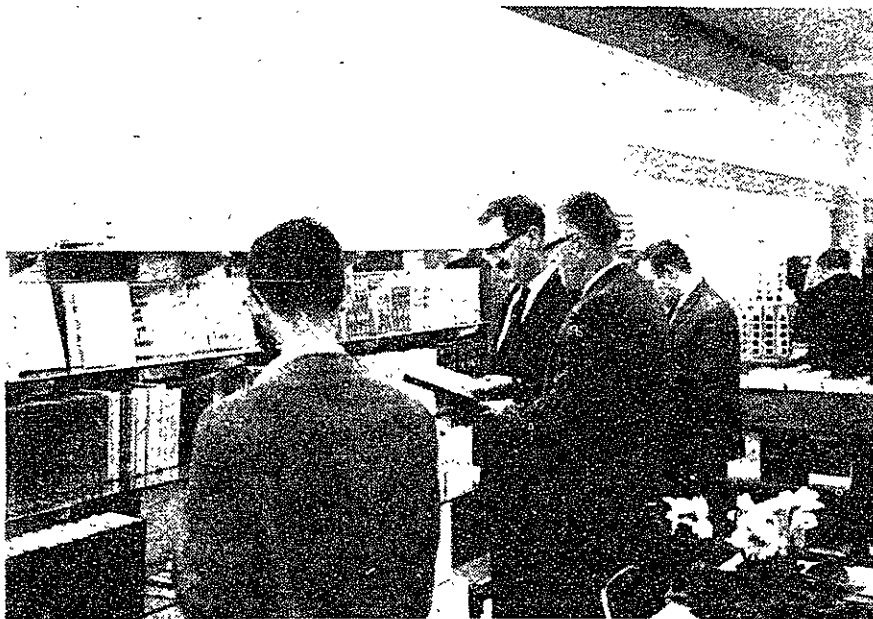


Photo by John Torode

Professors turn out for Authors' Day at the Coop, Monday, November 1, sponsored jointly by Technology Store and John Wiley and Sons. Above are Professors Elias Gyftopoulos (Nuclear Engineering) and Henry Zimmermann (EE).

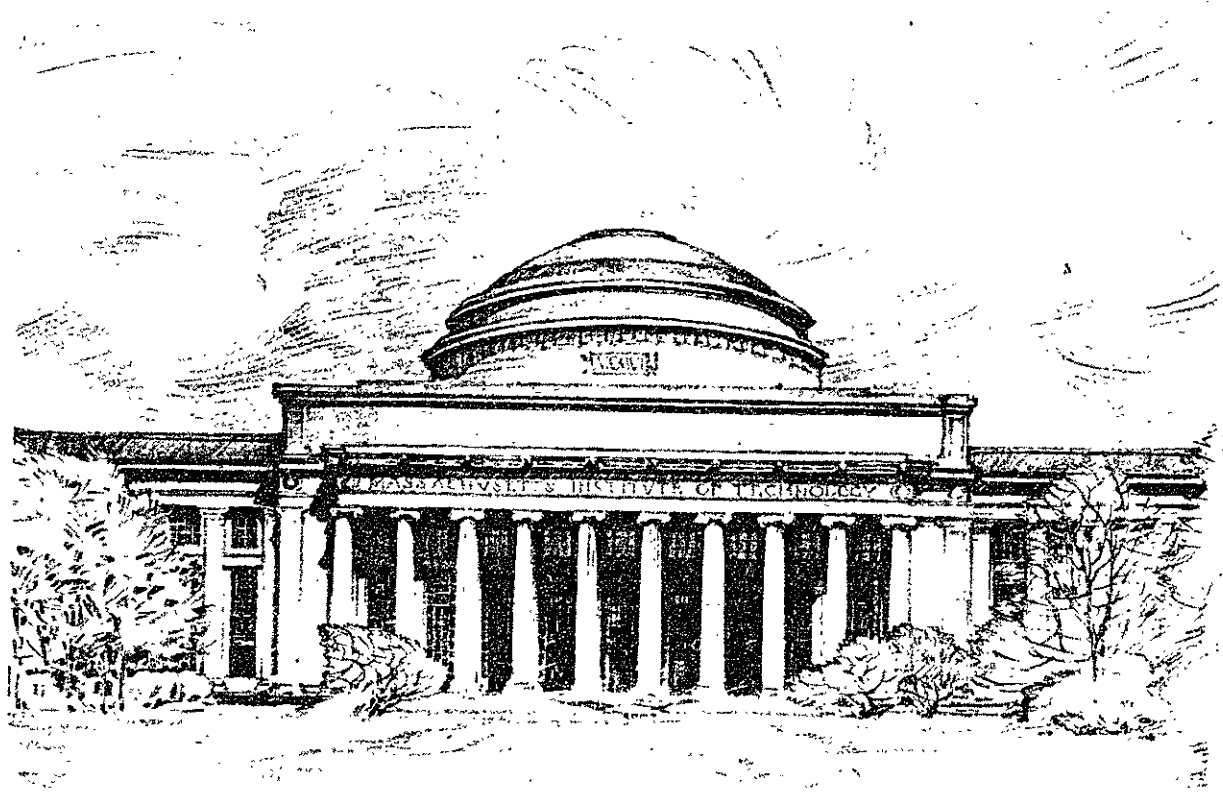
honoring the authors was held at the Charter House. Two hundred guests were present for cocktails and a buffet.

This was the first occasion of this type to be held at a college store. The November 15th issue of the magazine 'Publisher's Weekly' will have a feature article

on the Tech Coop and its Authors' Day.

In the spring another event of this type will be held in conjunction with the MIT Press.

The Harvard Coop has also expressed interest in the Authors' Day idea, which was developed by Mr. Zavelle.



*Main Entrance from the Great Court —
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Charles H. ...

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Extend your Christmas greetings to family and friends in the distinctive M.I.T. tradition. M.I.T. Christmas cards feature beautifully-rendered sketches of some of Tech's best-known landmarks. Now on sale at the Tech Coop, M.I.T. Christmas cards come in several assortments:

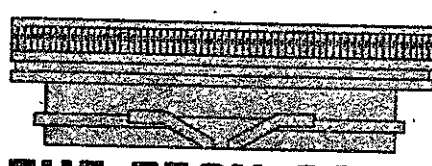
- Box of 10 small cards . . . \$1.00
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The Tech Coop will tastefully gift wrap all purchases of \$10 or more, free of charge—one more reason why it pays to do your Christmas shopping at the Coop.



THE TECH COOP
OF THE HARVARD COOPERATIVE SOCIETY
IN THE NEW M.I.T. STUDENT CENTER

Father Wallace speaks tomorrow

Father William Wallace, O.P., will be the guest speaker at the upcoming meeting of the Technology Catholic Club tomorrow, Nov. 4 at 7:15 p.m. in Room 407 of the Student Center. The topic of his talk will be "Some Moral and Religious Implications of Nuclear Technology."

A key source for Father Wallace's ideas concerning the obligations of the scientific world came in World War II at which time he was stationed in the Pacific with the aircraft that drop-

ped the first atom bombs. This experience convinced him that science alone was unable to solve man's increasing problems.

Father Wallace is a familiar figure to those of the Technology Catholic Club because of his past lectures in the Catholic Club's Friday Philosophy series.

Informal discussion and refreshments will follow the lecture. Both members of the MIT Community and the general public are invited to attend.

Harvard's Bryson visiting MIT staff

Dr. Arthur Earl Bryson, Jr., a distinguished Harvard professor in the field of aerodynamics and flight vehicle guidance and control, is visiting MIT during this academic year.

Dr. Bryson is this year's Jerome Clark Hunsaker Visiting Professor of Aeronautical Engineering at MIT. The Professorship was established several years ago in honor of Professor Emeritus Hunsaker, founder of MIT's Department of Aeronautical Engineering, now the Department of Aeronautics and Astronautics.

Announcement of the appointment came from Dr. Gordon S. Brown, Dean of the MIT School of Engineering. Dr. Bryson was named in 1961, at the age of 35, the Gordon McKay Professor of Mechanical Engineering at Harvard.

Humanities lecturer to discuss novelists and race relations

The Department of Humanities will present a lecture by Dan Jacobson, a writer from the Union of South Africa, this Sunday evening, November 7. The lecture, entitled "The Novelist and Race" will be held at 8 p.m. in the Hayden library lounge.

Mr. Jacobson is touring the United States on a lecture tour sponsored by the Atlantic Monthly. He is the author of five novels, the most important of which is *The Beginners*.

"The Zulu and the Seide," a collection of Jacobson's stories, is currently being produced on Broadway, and some of his other work has appeared in *Encounter*, *The New Statesman*, and *The Atlantic Monthly*. Having taught at Stanford, he is now teaching at Syracuse.

Inside Inscomm

Meeting to discuss false alarms; more mug-books being published

By Bill Byrn

Tomorrow night at 7:30 p.m. the Institute Committee will meet on the activities floor of the Student Center.

Among several topics on the agenda are: i) a discussion of proper users of the new Undergraduate Association printing press, a recently acquired \$3300 device located in the Lecture Series Committee office, ii) a discussion of living groups' responsibility for needless false alarms turned in by residents, and iii) a report on the Intercollegiate Conference, scheduled for next April.

Although a few portions of the meeting may be closed to non-members in the interests of orderly discussion and debate, the general student public is invited to observe the meeting.

Because the Public Relations Committee supply of 1100 Class of 1969 picturebooks was totally sold out before Registration Day, we have ordered a small extra printing. Students & others interested in obtaining a picture book should purchase one through the Institute Committee Office at \$1 each.

I am provoked by several minor

recent incidents to editorialize on the enforcement of rules. The four administrative Inscomm subcommittees — Secretariat, Student Center Committee, Finance Board, and Activities Executive Board — have over the years established a variety of rules and guidelines in their own domain of activity. This includes rules for bulletin boards, Building 10 booths, cleanliness in the Student Center Office, or proper conduct of an activity's election or financial affairs.

Some of the rules were carefully developed by well-informed and experienced students. Others may have less real justification and appear arbitrary. But what I am calling for is an understanding by students wishing to use the booths, or the bulletin boards, or the Student Center offices, etc., of why the rules are necessary. We are flexible — if there is a silly rule it can be removed.

Recently, I have asked each of the administrative committee chairmen to stringently enforce existing rules. In addition, we will try to propagate information about the rules more broadly.

'Delusions of Grandeur' in 'The Age of Hatred'

By Ted Nygreen

(Ed. note — This article does not necessarily reflect the opinion of *The Tech's* Board of Directors.)

As demonstrations against the war in Vietnam become the focal point of the American press, as words fly from SDS to YAF groups, and as our national government reacts to the many political, economic, and social pressures of its everyday affairs, there becomes noticeable an underlying ideology, the ramifications of which are truly startling.

Shining through all the pompous arguments is the dread image of American hatred of the Communist people, an anti-communist obsession of the type historically known to distort the judgment of otherwise sensible and competent men.

At such a time in history when nations of the world are realizing the necessity of peaceful co-existence, frightening is the single minded anti-communist consensus that is developing in our foreign relations.

This hatred of another people appears to be the basis for the widespread revival of "McCarthyism," the immediate pasting of the label Red on all actions not in line with present U.S. policy and the implication of public contempt for these "subversive elements" (e.g. Vietnam demonstrations).

Last month the House voted 312 to 52 approving the unilateral use of force to put down communist-fermented rebellions anywhere in the Hemisphere, and again the U.S. became captive to the deadly, white arrogance that has poisoned the international atmosphere for so long.

An unofficial publication of the newly formed MIT Committee for Victory in Vietnam entitled "How to win in Vietnam" stated that a "hatred of the communists is essential..." This handout follows

the mainstream of modern thinking more aptly termed perhaps "Delusions of Grandeur."

Throughout the history of the Vietnam conflict, this hatred for a people rather than a reasonable rejection of a doctrine has become increasingly evident. The recent revival of the McCarthyite smear of communist influence is only all the more indicative of the obsessive hatred that is becoming incalculated into the standards and young minds of our society, a maniacal hatred reminiscent of our German counterparts of World War II, a hatred history is ashamed of.

Scientific American runs profs' stories

The November issue of 'Scientific American' contains articles by two MIT professors. Dr. Richard Held's article is on "Plasticity in Sensory-Motor Systems"; Dr. Frank Press' is on "Resonant Vibration of the Earth."

Dr. Held, Professor of Experimental Psychology, examines how an animal's own movements help it to use data from its sense organs. By moving about in a system, the organism familiarizes itself with what the data mean. Distortion produced by various types of goggles are an example of the problems which this process can overcome.

Dr. Press, Head of the Department of Geology and Geophysics, writes about the information which can be gained by examining the behavior of the earth during earthquakes. During an earthquake, the entire earth vibrates at a very slow rate; these vibrations give information about the structure of the crust and the mantle.

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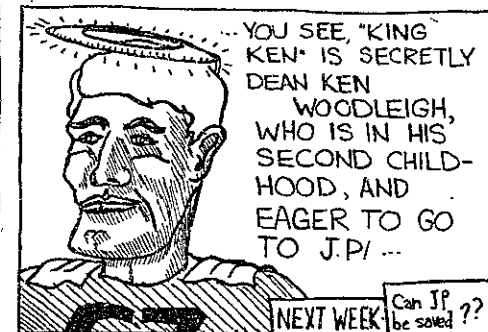
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Student-faculty interaction

Last week's editorial explored some of the reasons for social education of scientists and engineers; this week we would like to discuss the faculty's role in this education. The basic problem, we feel, is the ever-recurring one of student-faculty contact.

Talking with several professors convinced us that public lectures are not the answer to the problem. Students and faculty alike are often unwilling to participate in such events as debates, teach-ins, and the like, because the formal nature of these discussions in public hinders the openness and the real dialogue which many seek. And some professors simply shun that sort of public exposure.

We cannot condemn a teacher because he is unable to express himself glibly in public without hours of careful preparation. But in more private, informal surroundings, such a man often proves to be very vocal and persuasive indeed. It is this sort of contact which we encourage. We think that most of the faculty are doing as well as possible in their contact with students taking their subjects—although many students, complaining about never seeing a professor, seem to want a private tutor in all their courses. But we also think that the professor's responsibility to his students does not end at this "point of impracticality."

In formal contact

How, then, can a faculty member increase his contact with students without becoming a tutor? As we have said, there is more to education than pure science and engineering. We would like to see more informal contact, with the subject of discussion limited only by the interests of the group. We would like to see a transferral of experience, as well as knowledge—the experience of a well-educated scientist in the modern world.

One professor told us of an informal seminar he and an associate had started. The students were all seniors in the same course, so that they could always "talk shop" if other topics failed; and of course they were bound together by the common problem of using their education in the real world. Both students and teachers, this professor reports, found the weekly meetings enjoyable and informative. And they seldom had recourse to even semi-technical conversation.

Student Initiative

This illustrates one possible type of contact; before we enumerate others, let us make one other point. We may imply above that it is solely the faculty's duty to make contact with the students. This is emphatically not true. Indeed, many

faculty members are only too willing to talk with students, but are unable to reach any save the occasional eager beaver looking for an A in a subject. We feel, to put it bluntly, that students are making little if any attempt to really associate with the faculty.

Let us proceed, then, on the assumption of student initiative, and faculty cooperation. We have mentioned the course-oriented seminar group. Might it be a good idea to elect, for example, a student "course president" in each year to arrange such meetings? And the living groups also have an important role. We know there is some student-faculty mixing here in the form of cocktail parties, dinner guests, and so forth; but all of these programs could be expanded. And we might mention that the small Student Center dining rooms would be excellent for a relaxed, informative dinner discussion. On a lighter level, we'd like to see student-faculty bowling leagues.

Mature example

Perhaps the basic argument for these suggestions is that the best preparation for social contact with adults in the future is social contact with adults right now. Social maturity, like anything else, is demonstrated more forcefully by example than by lecturing.

There is always more difficulty in starting a program than in continuing one, or in criticizing one. Some responsible students and faculty members must take it upon themselves to organize something on a trial basis. We would like to offer our help; we also feel that the heads of living groups and student government committees are concerned. But it's time to get the ball rolling now.

Vietnam Poll

We urge our readers to fill out the ballots in the poll on U.S. policy in Vietnam; such a poll can be very useful, but only if a significant percentage of the students participate.

We can't help wishing that the poll also asked for an opinion about student demonstrations; disapproval of policy may not imply approval of "anti-policev." If there is time, we'd like to see this question added to the ballot.

Lobdell Room

The Student Center Committee has received several unfavorable comments on the quality and the prices of the food in the new Lobdell Room. We feel it only fair to see that this new facility gets an even break in its honest attempts to serve the community, so we'd like to get the facts straight.

Since the Student Center facilities are not subsidized, there is an inevitable raise in cost for some common items. A careful comparison of prices shows that the difference is seldom over 10c. And the new cooks and dining staff have a lot to learn about the recipes they are using.

Mr. Fred Grotheer, head of the Stouffer's operations in the Center, has tried to offer specials, such as lobster or steak dinners, at what seemed to us more than reasonable prices. He has received very little feedback on the success of these specials, or indeed any helpful feedback on his usual menu and the preferred items.

The Lobdell Room and the grille room are unashamedly trying to cater to student tastes. Any suggestions about favorite dishes and price ranges will be tried. If students want \$5.00 steaks, they will be available. In order to make the food more acceptable to everyone, the Student Center Committee is trying to give feedback to Mr. Grotheer. The cooperation of everyone is requested and needed if everyone is to be satisfied.

F o t n o t e s

by Chuck Kolb

88. Since last week's announcement that two former MIT undergrads won 1965 Nobel Prizes, we've received quite a few inquiries about MIT's record in the Nobel Prize game. Taking the position that any former winner must either have been a student here, or have been a faculty member when he won the award, MIT can claim some credit for two previous winners.

Most of us are familiar with this year's two winners, as well as with the physics prize Provost Charles H. Townes shared last year for his development of masers. If our information is correct the only other MIT type who has been honored by the Nobel Committee is Dr. William Shockley, who received his PhD in physics here in 1936 and shared the 1956 physics prize for developmental work on the transistor.

Incidentally, this compares with 14 faculty members and former students from Harvard to win Nobel prizes.

89. According to Sunday Herald for October 24 the Institute paid \$395,000 for a building and 73,106 square feet of land on the corner of Putnam Ave. and Pleasant St. in Cambridge.

Since this property is just four blocks from the River Street Bridge over the Charles (which means roughly 20 blocks from the main Institute) we called the authorities that be to inquire about the site's use. Relief, the place was bought as an investment and not as a new

site for the Information Office. 90. A check on the recently issued Treasurer's report for the fiscal year ending last June shows that \$372,000 was paid out for work on the new chemistry building.

Since no piles have been driven or holes dug beside Building VI where the core samples were drilled last year, we conclude that this figure primarily represents the cost of planning the building.

This left the Chemistry Building fund with about \$749,000 as of June. No gifts or donations were reported for 1964-65.

It might be quite a while before we have a new chemistry building.

91. Brandeis will dedicate new 10 building science complex and award honorary degrees to 12 distinguished scientists at an academic convocation next Sunday.

Among those receiving degrees will be five Nobel Prize winners and Dr. Jerome B. Weisner, Dean of the School of Science. One of the Nobel Laureates being honored is Dr. Robert B. Woodward '36, winner of this year's chemistry award.

Also honored will be James E. Webb, NASA head, who will deliver the main address.

92. Those 8.09 students who are really gung ho can sit in on an IEEE conference on Hall Effect Applications in Kresge November 8 and 9. Chairman will be Dr. W. Crawford Dunlap from the nearby NASA Electronics Research Center.

Kibitzer

By Mark Bolotin

North			
♠ 5			
♥ K 4 3			
♦ A K J 6 3			
♣ K Q 8 6			
West	East		
♠ A K Q 9 7 6 3	♠ 10 8		
♥ 8	♥ A 10 9 5 2		
♦ Q 5	♦ 10 8 7		
♣ 4 3 2	♣ J 9 5		
South			
♠ J 4 2			
♥ Q J 7 6			
♦ 9 4 2			
♣ A 10 7			

Bidding:

West	North	East	South
1♠	double	pass	2♥
pass	3♦	pass	4♣
4♥	pass	pass	pass

While virtually every bridge book claims that the four-three

fit in the trump suit should be avoided at all cost, there are certain hands which are best played in the four-three fit. However, since it is important that declarer not ruff in order to keep the opponents from gaining control of the trump suit, these hands have definite patterns. Declarer should have no short suit, unless dummy has a lot of strength in that suit. The two hands should have most of the high-card strength in the trump suit and in two of the side suits. Dummy is usually short in the other suit. Today's hand, taken from a recent tournament at the MIT Bridge Club, provides an example of the type of hand suited for the four-three fit. Four hearts can

(Please turn to Page 5)



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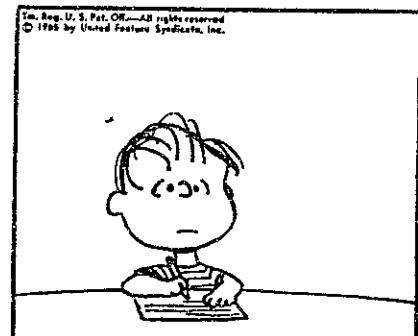
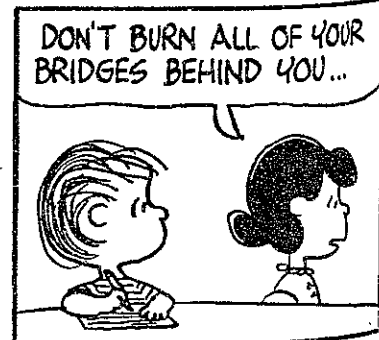
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Front page photo of the Great Court entrance to Building 3 taken by Art Kalotkin.



11-3

SCHULZ

Kibitzer . . .

(Continued from Page 4)

be made easily against a three-three or four-two trump split; three no trump has absolutely no play; five diamonds isn't a bad contract, but it isn't good in duplicate.

West led the King of spades, with East playing the ten, then switched to a low club, which South won with the Ace over the Jack. Declarer took the diamond finesse, then returned to his hand with the ten of clubs. A spade was ruffed and was followed by the heart King won by East's Ace. East returned a diamond, won on the board. Declarer returned a heart to his Queen which

revealed the trump split. South cashed dummy's King of diamonds and King of clubs to bring about the following position:

North	East
♦ 6 3	♥ 10 9 5
♣ Q	
West	South
♠ A Q 9	♦ J
	♥ J 7

When anything is led from the board, East is held to one more trump trick. If East ruffs low, South over-ruffs with the seven and cashes his Jack. If East ruffs high, South merely discards, so that he need only cover East's return to win two trump tricks.

College World

Burlesques banned in Columbus; Report drama of student politics

By Jeff Trimmer

Themes that think things ain't what they used to be may be right. At least that's what the call seems to be from the Ohio State Lantern decrying certain action taken by the Columbus, Ohio City Council.

In a turnabout action against what has been termed "the New Morality," Columbus Councilmen ground out an ordinance banning burlesque from the city limits. Burlesque was classed with other prohibited operations such as rendering plants, dumps, and cemeteries.

But the forces of liberalism have vowed to fight. The manager of the Gayety Theatre, Mrs. Betty Knab, said that the theater's owner will go ahead with plans for the performances.

"The Supreme Court has already ruled in favor of us. It is just a matter of time before we can have legal burlesque here," Mrs. Knab said.

Things ain't what they used to be. Since Scollay Square was torn down, they haven't been the same around here either.

Telling it like it was Those of you who listened with rapt attention to the news report of the President's condition fol-

lowing his recent operation may well appreciate the following news release of the state of affairs concerning Senior Class business and politics. Written by Don Sockol of the Michigan State News, one can well imagine the type of reporting if student politics were to take on the drama and "quality" of national reporting. Just the facts, ma'am, all of them.

"Joel F. Higgins was taking a nap at his fraternity house Oct. 19, when the final results of the Senior Class elections were being tabulated. At 8 p.m. it was announced that he had won a staggering 66.3 per cent of the popular vote—226 of the 341 votes cast.

"At that moment, the awesome responsibility of the president of the Senior Class descended upon him.

"At 8:01 p.m., a student government car arrived and Higgins, flanked by two Spartan guards, was driven through crowded downtown East Lansing to his new offices in the Student Services Building. There he met with outgoing officials of the previous administration to be briefed on Senior Class secrets.

"At 11:43 p.m., he was seen leaving the building, chewing scraps of paper. He returned to his fraternity house and had a snack. He consumed an eight-ounce glass of orange juice, two chocolate chip cookies and a glass of milk.

Calls pinmate

He then called his pinmate, the new First Lady, who could not be at his side because of women's hours. President Higgins retired to bed at 1:07 a.m.

The President rose at 5:30 a.m., and began his first full day as

chief executive of the Senior Class. At 9 a.m., he met Paul A. Smith, his vice president, for breakfast in his third floor suite in the Student Services Building. The President had two sunny-side up eggs, toast and coffee. The vice president had a bowl of cereal with blueberries, one waffle (battered) and a cup of coffee.

"Both men laughed frequently during the breakfast conference, which lasted 43 minutes.

"The President and I concur on every basic issue concerning the security and well-being of the Senior Class," Smith told newsmen waiting outside.

"JFH proceeded to his other duties and by the end of the day he looked, spoke and felt like a President.

"Someone once called the Presidency 'a lonely prison.'"

"Every President must face the solitude of leadership. Joel F. Higgins must face it.

"History will judge him.

"Higgins retired at 1:30 a.m., after his first full day in office. He wore no pajamas."

Beauty queen is king

The beauty contest judges were about to give second prize to a buxom blonde listed as Nancy Harwood—but Nancy let out a loud whoop, all male.

Shaking with laughter, the blonde revealed he really was Nigel Harwood, 19, Nottingham University student.

"I only did it because of a dare. I was amazed that I got away with it. I had an extra close shave, piled on make-up and tried my best to walk like a girl.

"I expected to be caught any moment but the judges seemed to be taking me seriously."

Letters to The Tech

Yellow press

To the Editor:

I have rarely seen worse yellow journalism than the article entitled "Students join protests" on the front page of the Oct. 20th issue. In case Ted Nygreen didn't know, an article on page 1 is for facts, not opinions. And such an article says little for the editors who permitted it to appear as it did.

The article reads like a pamphlet for the group which held the demonstration. If you wish to do a series of articles presenting the views of these groups, fine. But why pass off the first one as a news article? The theses of the demonstrators were presented, but not those of their opposition. That the reporter was presenting his own opinions couldn't have been more obvious if they had been printed in red. I am referring to such statements as:

"... surprising . . . was a significant number of counter-demonstrators." The implication that very few people disagree with the demonstrators was hardly subtle. I think members of the MIT community can decide for themselves what's surprising. And considering that at least 89 per cent of the country supports the war (N.Y. Post), the implication is hardly truthful.

"Subtly admonishing those who had exercised their right of free speech, the President . . ." If Mr. Nygreen means to say that the President is against students voicing their opinions, I wish he would point to the quotation expressing such a view by Mr. Johnson.

For such a blatantly biased "news" article to appear in The Tech is discouraging, to say the least. It is characteristic not of an informative newspaper appealing to a very literate group, but of a yellow rag read by idiots.

Eric Goldner, '68.

Minority voice

To the Editor:

In reply to your editorial query, "Is there more to college than a course in physics and a 2-S draft status?" I say yes—much more. As you suggest, college helps one mature. But the mature individual must deal with a world constantly changing. I would hope that college can provide intelligent citizens with the understanding and abilities to change our world for the better.

Younger generations learn from the past; education can inspire them to the possibilities of the future. It is a waste of one's education then, to succumb to the status quo. Yet what influence will be exerted by these views gained by special advantage unless we stand up and be counted? Therefore let me leave my question: Doesn't the very beauty of our democracy rest on minority expression?

Ronald Chase,
Psychology Dept.

Police force

To the Editor:

An article on Page 3 of your October 27, 1965, issue falsely ascribes to me the advocacy of competing police forces, a concept which in fact I strongly oppose.

It is true that every individual has the right to use force in retaliation for force which has been initiated against him. He may either use this right, or delegate it to another individual or to an organization. I had pointed out, during the meeting referred to in the article, that while all of the above courses of action are morally justifiable, only one of these—the delegation of this right to the government—is consistent with a laissez-faire society. I had defined a government as the only institution in a given area to which the right of forceful retaliation has been delegated by individuals.

I had also shown conclusively (Please turn to page 5)

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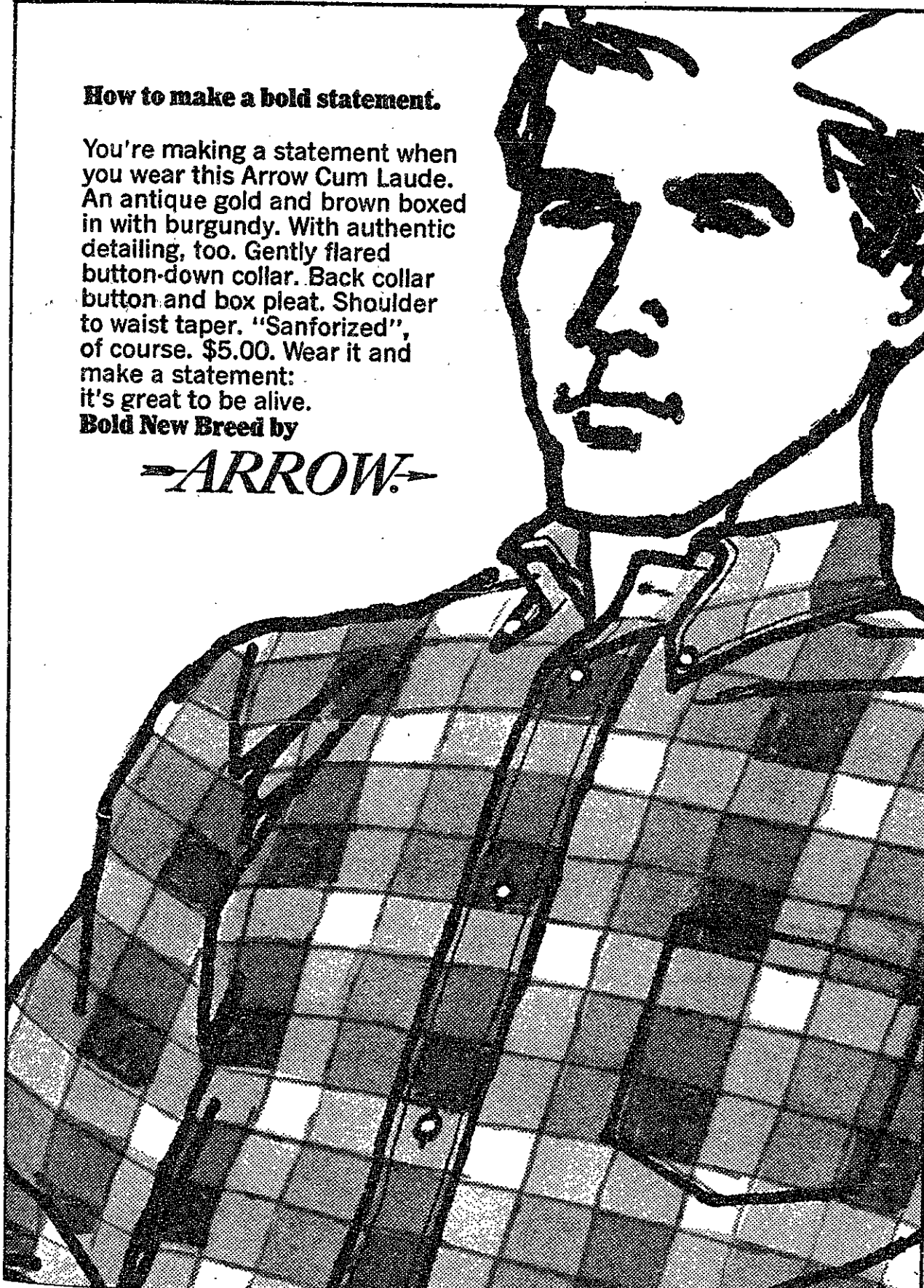
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THE TECH COOP

OF THE HARVARD COOPERATIVE SOCIETY
IN THE NEW M.I.T. STUDENT CENTER

Experimental films shown by Film Soc.

The M.I.T. Film Society will present the second in a series of programs of experimental films Monday, November 8. Included in the program are 'N.U.', an early documentary by Michaelangelo Antonioni, 'Cosmic Ray', by Bruce Conner, quoted as "a daring sexual parable—erotic, political, hypnotic," and 'Dog Star Man: Prelude and part IV,' by Stan Brakhage, a visual rather than narrative film which uses a wide variety of techniques, such as superposition, painting on film, and rapid cutting.

The varied program will also include 'H and R,' a hand painted film by Tony Siani, four films by Robert Breer, and 'Search for Icarus,' by Mike Mideke.

Compass Seminar

"An Experimental Approach to Gravity"

Seeks insight into gravity

By MIKE RODBURG

A series of three seminars on An Experimental Approach to Gravity was introduced Tuesday, October 19, when Professor Philip Morrison of the Physics Department presented the first of the Compass Seminars, "The Geometry of Space and Time."

The main purpose of the lectures, according to Prof. Morrison, is "to direct attention to the possibility of gaining additional information of the gravitational field." He cited the fact that though gravity has been the longest known physical phenomenon, it has not been subjected to any great amount of experimental techniques. "The time is ripe," he noted, "for experimental study of the gravitational field itself."

After a brief historical account of the study of gravity from Galileo's day to Einstein's Unified Field Theory, Prof. Morrison proceeded to explain certain aspects of observations in space. These observations are considered from three important viewpoints, K, K', and O. While K and K' are the traditional inertial frames of reference associated with the event, O is the necessary "third partner, the universe as a whole." It is relativity, remarked Prof. Morrison, "which asserts the right to define the structure of space and time."

As concerns the experiments into the geometry of time and space, Gauss was the first to test

(Please turn to page 8)

Solar system tests run

By Stewart Blackman

Experimental verification of general relativity was the topic of a lecture given by Dr. I. I. Shapiro on October 26. It was the second in the series of Compass Seminars.

Because Newton's law of gravity is such a close approximation to Einstein's theory, it is not easy to find measurable phenomena predicted by one and not by the other. The three such phenomena known are the red shift of light as it passes through a gravitational field, and the rotation of the axis of planetary orbits.

The first two tests are limited in that they test only first order terms in the expansion of Einstein's equation of motion and are also extremely difficult to measure. The only gravitational fields strong enough to cause a noticeable red shift are stars which are moving so fast that the Doppler effect dwarfs any relativistic red shift. Similarly, atmospheric disturbances greatly reduce the accuracy of measuring light deflection of star light as it passes close to the sun.

The best results to date are values ranging from 1.30 to 2.10 seconds of arc; Einstein predicted a value of 1.65 seconds, whereas Newton's theory predicts .83 seconds. (To apply Newton's theory it must be assumed that one can assign mass to a photon of a given energy according to the relation $E=mc^2$.) Thus a kind of qualitative experimental verification is obtainable. Currently an apparatus

(Please turn to Page 9)

Letters . . .

(Continued from Page 5)

that no system of competing police forces can be workable in practice. For example: Let A be the competing police force protecting individual a, and let B be the competing police force protecting individual b. Assume a believes he has been victimized by b. He notifies his police force, A, who go to b's house to arrest him, and who find a squad of policemen from B standing in their way. In the resulting battle, at least one side would be initiating the use of force, and the initiation of force by policemen is not consistent with a laissez-faire society.

Adam, Reed, '67

Catholic Club to present film on morality, ethics

The UCF TOC Forum of the First Lutheran Church of Boston will present the movie "Question Seven" on Wednesday, November 10 in 26-100.

Far from being a "churchy" movie, this is a full-length feature film which relates Christian ethics and morality to a totalitarian situation. The movie was filmed on location in the German towns Moelln, Berlin, and Hamburg.

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WHAT'S REALLY WRONG ON CAMPUS

The only thing not changed on campus since the war is human nature. Competition for admission is fiercer; undergraduate temper more excitable. This special Atlantic Supplement discusses students in revolt; the fate of the small college; academic freedom; why some students take drugs — why others drop out; problems of college for Negroes; do women learn anything; faculty pressures and privileges; free speech and much, much more.

Student Radicals
Women in College
The Drug Scene
Drop-outs
The Negro Problem
Free Speech at One State

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challenge



Dale Anderson
B.A., Wittenberg University

At many companies the opportunity to work on challenging projects comes after many years of apprenticeship and a few grey hairs. Not so at Ford Motor Company where your twenties can be a stimulating period. There are opportunities to prove your worth early in your career. Dale Anderson's experience is a case in point. After receiving his B.A. in Physics in June, 1962, Dale joined our College Graduate Program and was assigned to our Research Laboratories. Recently he was given the responsibility for correcting cab vibration occurring on a particular type of truck. His studies showed that tire eccentricity was the cause of the trouble. Since little change could be effected in tire compliance, his solution lay in redesigning the suspension system. Tests of this experimental system show the problem to be reduced to an insignificant level.

That's typical of the kind of meaningful assignments given to employees while still in the College Graduate Program—regardless of their career interest. No "make work" superficial jobs. And, besides offering the opportunity to work on important problems demanding fresh solutions, we offer good salaries, a highly professional atmosphere and the proximity to leading universities.

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Science Fiction Society produces Twilight Zine; To offer extensive library, magazine story guide

By Stewart Blickman

Can there be students who like science fiction more than the institute? Are there students who like the institute more than science fiction? Are there students who aren't moved by either, but like those who are? Are there some who simply like to go to very funny, very noisy meetings on Friday. The answers to these questions, and students fitting all these descriptions, may be found in an organization called the MIT Science Fiction Society.

One of its less infamous achievements is the publication of a guide to all stories in the major science fiction magazines. It sold several hundred copies and netted a fine profit for the society. This year the society is working on a complete guide to all stories in every science fiction magazine published between 1951 and 1965. The volume should be on sale early in 1966.

The Twilight Zone is the society's less serious and less lucrative publication. The last issue did not contain much science fiction, but rather rhymed doggerel—some of it first class. Other issues have contained articles and stories by

Isaac Asimov, Hal Clement, and Fritz Leiber. Dave Vanderwert '65, vice-president of the society, edits the magazine.

For reading members the MIT-SFS has what they believe to be the largest open science fiction library in the world. It contains 9000 volumes of hardcover, soft cover, and magazine enclosed science fiction; plus volumes of microfilm, posters, letters, etc.

Although not apparent in its magazine or meetings, the society takes a fairly serious view of science fiction. "Good science fiction," according to the president Mike Ward, "must first be good fiction. Monsters, spaceships, and impossibilities will not suffice. Physical impossibilities, although acceptable and proper, should not appear at the hero's convenience. Whatever contradictions appear should be plausible and consistent within themselves." These qualities are what Mike Ward believes make science fiction a useful predictor of the future and a fitting adjunct to technical school education.

Looking Back

Field day theorem: lbs. inches

By Bob Horvitz
50 years ago

... the main event of Field Day was the football game of the freshman versus the sophomore class. The Tech of November 5, 1915 presented a statistical analysis of the two teams. Both teams had an average age of 20 years, although it must be conceded that the sophomore team did have the oldest individual players, two of whom were over 22 years old.

At 5'9" the Frosh team towered over their sophomore adversaries; however, the Sophs tipped the scales at 154 pounds per man, compared with the 145 pound weight of the average freshman. The heaviest member of either team was the sophomore center, who weighed 170 pounds.

The freshmen were concluded to be "easily the stronger team." In previous games, this "stronger" team lost 14-7 to Brookline High and 21-0 to the Harvard "B" team. Despite their overwhelming strength, the freshmen were defeated 14-0.

... it seems, The Tech staff did a little bit more than merely publishing a newspaper, as is evidenced by the following advertisement which appeared in large, bold-face type:

"Need a good reliable fountain pen? The Tech has a limited number of Moore's Non-leakable pens to sell. Call at The Tech office at 5 in the evening and learn of our mutual benefit scheme of buying suits, shoes, and fountain pens."

The Coop did not retaliate by printing its own newspaper.

25 years ago

... The Tech went wild. The main headline, which took up half of the first page in the November 1, 1940 issue printed in bright red, announced, "EXTRA! FLASH! DECLARE RECESS—story on page 3." On the third page, two lines of headlines across the entire page read, "Classes to be suspended for period of one week." Then came the article. "There will be no classes," it proclaimed, "from Commencement, June 10, to Registration for the Summer Session on June 16, according to the Institute Catalog."

Other newsworthy announce-

ments appeared in this issue. For example, one article on page two revealed:

"The little room opposite the T.C.A. office in the basement of Walker Memorial has been dubbed 'The William Robert Ahrendt, '41, Lounge, the Committee For Naming Things At MIT announced late last night.

"This honor was conferred on the late Mr. Ahrendt in recognition of his splendid work in confusing the general public, the Committee said. The newly-christened room is connected by a ventilating fan to the office of the Walker Memorial Committee, of which Mr. Ahrendt was chairman. Until now the William Robert Ahrendt, '41, Lounge bore the simple label 'Men.'"

10 years ago

... riots broke loose throughout the halls of the Institute when the

freshmen attempted to "give the shaft" to the sophomores. According to the issue of October 23, 1955. "Last Tuesday's 10 to 11 8.03 lecture was a normal affair until about 10:30 a.m. when a loud noise was heard outside the lecture hall. 'Twas the Frosh attempting to present the Purple Shaft to the sophomores. The sophs banded together and rose to the call. Within minutes 10-250 was deserted.

"Outside in the halls freshmen were cruelly punished for their foolhardy deed, and many left the scene minus a set of britches. Final tally: many broken windows, many freshman pants in sophomore hands, and work provided for about ten policemen, two paddy wagons, and an unknown number of patrol cars. And the shaft?? Sophomores are smiling today."

Esquire announces five leaders in Tech 'Best-dressed man' contest

With about two weeks to go in Esquire's "Best-Dressed Man On Campus" Contest, the following MIT undergraduates are the leading contenders for the honor: Michael Dennis Scott '67, PMD; Howard Weisberg '67, PLP; Joseph Andrew Klawnsnik '66, CP; John Ingle Bobbitt '66, TDC; Ronald Norelli '67, SC.

The contest, launched through The Tech, closes officially on November 15, 1965. All Nomination Ballots must be postmarked before this date. An ample supply of ballots have been made available on campus through The Tech, fraternities, sororities, and local men's wear retail shops. Should the supply run out, a postcard containing the candidate's name and address will be acceptable.

Chip Tolbert, Fashion Editor of Esquire, will visit MIT on November 30, 1965 to select the final contest winner. He will interview the top contenders personally, making his selection on the basis of general appearance, good

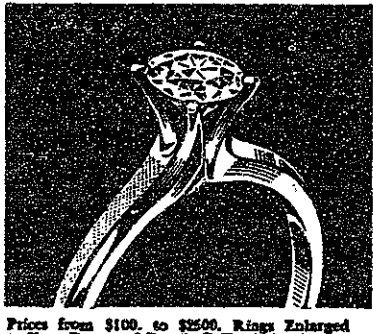
grooming, wardrobe coordination, articulate expression and fashion awareness.

The winner will represent MIT on Esquire's 1966 College Board Advisory Panel, consisting of 12 members, each representing a leading college or university.

In addition to MIT, similar contests are being conducted at the University of Washington, NYU, Georgia Tech, Duke, Dartmouth, Ohio State, Marquette, SMU, Arizona State, Stanford, and the University of Colorado.

College Board members elected from each of these colleges will be Esquire's guests next Spring for a week-long, all-expense paid trip to New York, where they will participate in Esquire's 1966 Back-to-College Fashion Forum, and be photographed for the editorial fashion pages of the September issue. The Board will also be presented with an extensive wardrobe, including a wide range of gift merchandise from some of the nation's leading men's wear manufacturers.

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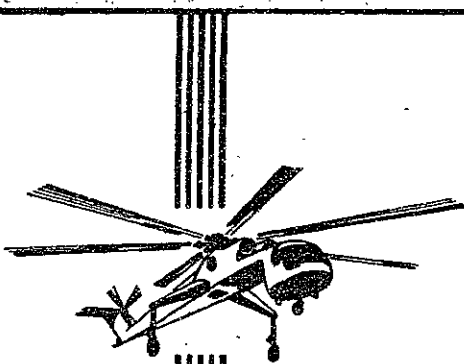
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Open to all religions

MIT College Life Group formed

A new addition to religious organizations on the MIT campus this year is the MIT College Life Group. The purpose of the College Life Group is to stimulate interest and discussion of the teachings of Jesus Christ and their relevance to the lives of college students.

Open to all

Although the College Life Group is concerned with the study of Christianity, the discussions are open to both Christians and non-Christians. Persons of all religious beliefs are invited to participate in the activities of the group.

Similar organizations have been established at more than one hundred college campuses across the United States. Among these colleges are Northwestern, Pennsylvania, Georgia Tech, Smith, Yale, Amherst, and Stanford. These organizations are affiliated with the Campus Crusade for Christ International.

Founded at UCLA

Campus Crusade for Christ was founded by Dr. William R. Bright at UCLA in 1951. Instrumental in establishing the MIT Group has been Doug Reed, a graduate student at Harvard Divinity School. Doug has worked on the staff of Campus Crusade in the Boston area for the past three years.

During these three years Doug has stimulated vigorous thought and discussion concerning Christianity among many students in the Boston area. Doug is now working for Campus Crusade with concerned members of Congress in Washington, D.C.

Meyers in charge

Replacing Doug in Boston is Steve Meyers, a graduate of MIT. Steve is currently working with two other staff members of Campus Crusade in colleges around Boston and eastern Massachusetts.

The College Life Group invites all members of the MIT community to attend its weekly meetings, held each Friday evening

at 8:00 P.M. This week's meeting will be held in the West Lounge of the Student Center. The speaker will be William Hunter, a graduate of Northeastern University and staff member of the Campus Crusade for Christ at Amherst and the University of Massachusetts.

Wide participation

Friday meetings have been held in several MIT fraternities

this fall. They have been attended by students from many schools in the Boston area, including Harvard-Radcliffe, Boston University, Simmons, and Pine Manor. Students from other colleges in the New England area, including Yale and Dartmouth, have also attended these meetings.

Future meetings are planned at Harvard and B.U., as well as at MIT.

Physical results frame independent

(Continued from Page 6)

the notion of Euclidian geometry by actual experiment. He attempted to use light in his work. Since then, it has been shown that addition of velocities in space is not Euclidian; indeed, all space is not flat. Such studies have led to notions such as the Reimann Curvature tensor.

Prof. Morrison went into great detail on the result that inertial mass equals gravitational mass. This result has been verified by recent experiment to 1 part in 10¹¹. "This is the basis of the weak principle of general relativity," said Prof. Morrison. The

principle states that there is no observable difference between a gravitational field and an accelerated body moving through space. From this is derived the so-called strong principle of relativity, that all physical results are the same, regardless of the frame.

The second lecture in the series, "Solar System Test of General Relativity," by Dr. Shapiro of Lincoln Laboratory appears this week. The next lecture in the series is "A Survey of Current Experimental Gravitational Research" by Dr. Forward of Hughes Research Laboratories.

The IBM interviewer will be on campus November 16-17

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Drama Shop one-nighters now to run two, under increasing pressure of public demand

The MIT Dramashop, for the first time since the inception of the popular Evening of One-Act Plays, will perform for two nights instead of one, Friday and Saturday, November 5th and 6th, at 8:30 pm in the Little Theatre of Kresge. Gertrude Stein's "Brewsie and Willie" and Georges Feydeau's "Please Don't Walk Around in the Nude" will be performed by the Dramashop company.

According to Dramashop President David Liroff, the change to an additional evening was necessitated when the number of patrons for the free evening of dramatic entertainment reached such proportions last October 15th, that more persons were turned away at the door than were able to be accommodated for the performance. Liroff also

stated that, during the last few years, considerably more time, effort and money is being expended on the one-act evenings than was originally planned.

"Brewsie and Willie," to be directed by co-ed June Paradise, '66, is based on the novel about two GI's whom the famous American author, Gertrude Stein, actually met and became friendly with after World War II in Paris. The second offering on the double bill, to be directed by David Liroff, '66, is "Please Don't Walk Around in the Nude," written by Georges Feydeau, best known in this country as author of "Hotel Paradiso." Dramashop's offering is a racy farce-comedy about a French up-and-coming politician and his beautiful wife who has the habit of wandering around their Paris apartment inadequately clad and the mishaps and contretemps which befall the couple because of her unusual behavior.

Curtain time for both Friday and Saturday's performances is 8:30 pm. The house will be opened at 8:00. Following the performances a critique of the plays with all members of the acting, design and productions staffs on-stage will take place in the theatre.

Tech student receives grand prize in national photography contest

MIT Sophomore Owen D. Frank-en received one of four grand prizes awarded in the color category of the National Newspaper Amateur Photography contest.

The picture, entitled "Fireworks," showed a silhouette of five people against the colored water fountain near the Bell Telephone exhibit at the New York World's Fair. The sky above was streaked with multi-colored lines of the fireworks.

Taken on a September night of last year, the picture was a carefully planned shot. "It was a combination of two 2-second exposures," explained Owen. "One was of the people, and the second was to obtain the streaked effect of the exploding fireworks."

The award was Owen's third in the contest, having previously been given two minor placings in the black-and-white category.

Mercury's orbit provides conclusive evidence

(Continued from page 6)

has been developed which should be able to measure the deflection of light to an accuracy of about .1 percent.

The third phenomenon, the rotation of the minor axis of Mercury's orbit is one of the oldest stumbling blocks of classical mechanics. The rotation of about

.43 seconds of arc per century has been known for nearly a hundred years and it simply can not be explained in terms of Newton's law of gravity. It is this subtle phenomenon, predicted precisely by general relativity, that provides the most conclusive evidence for its superiority over universal gravitation.

Pye talk scheduled

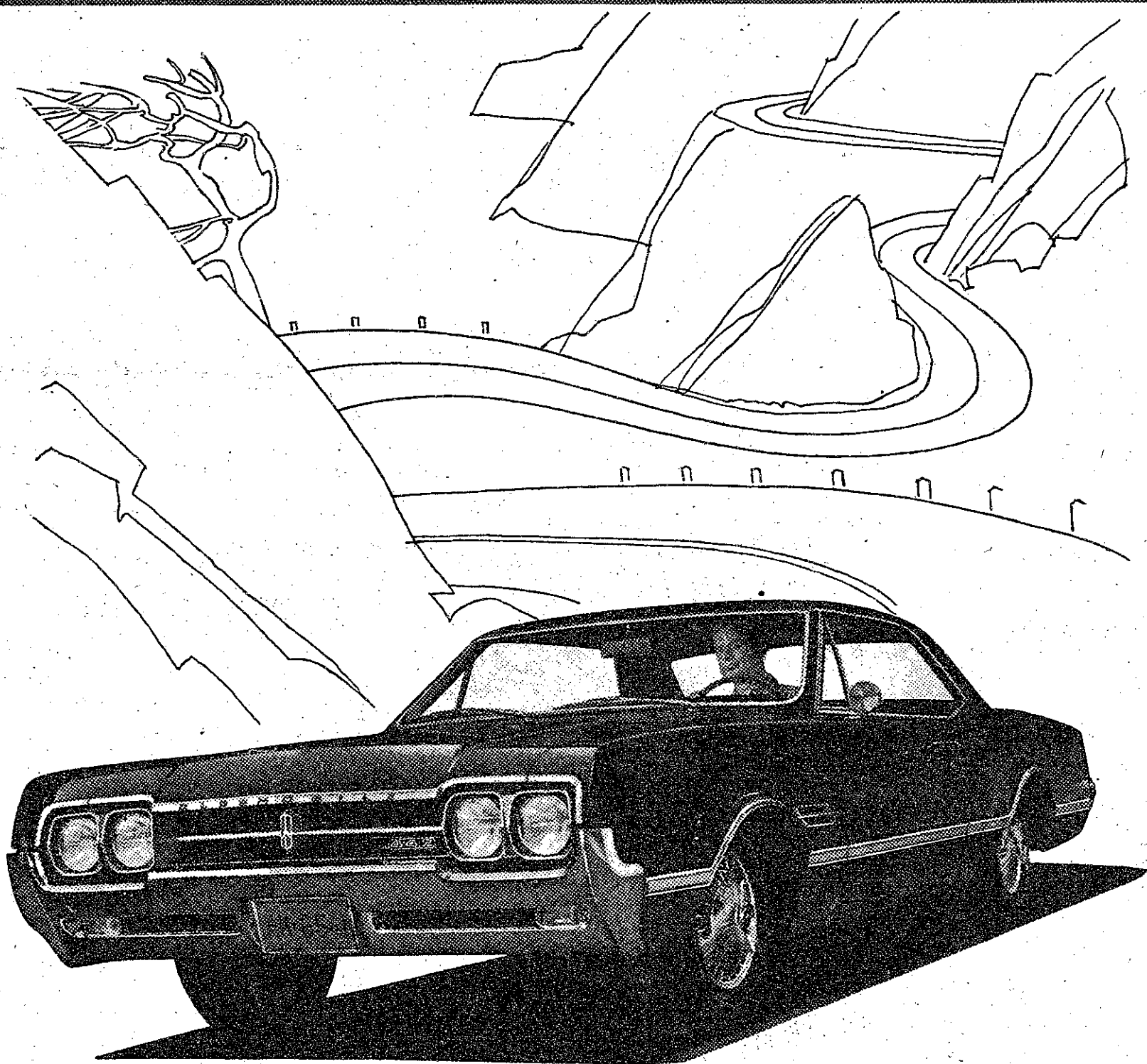
Professor Lucian Pye will speak at a meeting of the MIT Committee for Victory in Vietnam on Thursday night in Room 10-275.

The meeting will begin at 8 p.m. Members of the MIT community are invited to attend.

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Institute Concert Band to feature 'Festival Symphony' in Sat. premiere

The Concert Band will present its first concert of the season Saturday, November 6, at 8:30 pm in Kesge Auditorium. The featured work will be the "Festival Symphony" by Boston composer John Bovicchi; the symphony was commissioned by the Concert Band and will be given its premiere performance.

The band, conducted by John Corley, Assistant Director of Music

at MIT, will also play the "Concert for Cello and Winds," by Jacques Ibert, and will give the first Boston performances of "Meditation" by Gunther Schuller, "Praeludium and Allegro" by the American composer Vittorio Giannini, and the "Theme and Variations for Band," Op. 43 of Arnold Schoenberg.

John Bovicchi is a former MIT student who has had works commissioned by the New York Woodwind Quintet and by members of the Boston Symphony. At present he is instructor in counterpoint, composition and conducting at the Berklee School of Music in Boston.

Theatre Company of Boston presents **Act Without Words** by Samuel Beckett, **The Lunch Hour** by John Mortimer. Tues. thru Sun., 200 Tremont St. (in Hotel Touraine). Box office HA 6-6609 Student Discount Subscriptions.



personally

I just don't understand why everyone is simply going APE over this

BRUCE MCGABE

AND HIS COLUMN

in the **Record American** and **Sunday Advertiser**

New film series begun

A new film series, stressing the art of film making, will be held at the Institute of Contemporary Art on Wednesday evenings, starting November 10. Carl Siembab, who has organized and executed other art projects in Boston, will be coordinator of the Film Series.

Wednesday showings at 7:30 will be open to Institute members only in the New England Life Hall. Memberships are available at the Institute Sales Desk, 100 Newbury Street, 262-0600.

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Politics at MIT...

Pure opinion replaces cold logic

By Thomas Nesbitt

Pure opinion, however substantial it may appear to the individual mind which fosters it, is a totally inadequate means of communication. It is impossible to convey an opinion from one mind to another—sound logic is the only suitable medium of communication. I was, personally, quite surprised when Norman Thomas, speaking at an LSC lecture last Wednesday, made so little use of this medium.

At the risk of arousing those whose opinions on the subject of U. S. commitment in Viet Nam happen to coincide with those of Mr. Thomas, I must report that the arguments presented in his lecture were, largely, inconclusive. His suggestion, that President Johnson simultaneously announce a cease-fire in Viet Nam, withdraw all U. S. forces from the area, and call a peace conference to be held in Geneva, was supported by one main argument—that anything is better than the present situation of war. (But what, I ask, is "anything?") This argument was not developed in further depth or in the context of reality (the question from the audience concerning the improbability of a Communist acceptance of such a cease-fire was answered with the glowing assurance that we should at least test the theory); instead it was simply repeated. Quite aside from any personal feelings on the subject of his statement, I must say that Mr. Thomas neither proved nor disproved the feasibility of his suggestion; it remains an opinion.

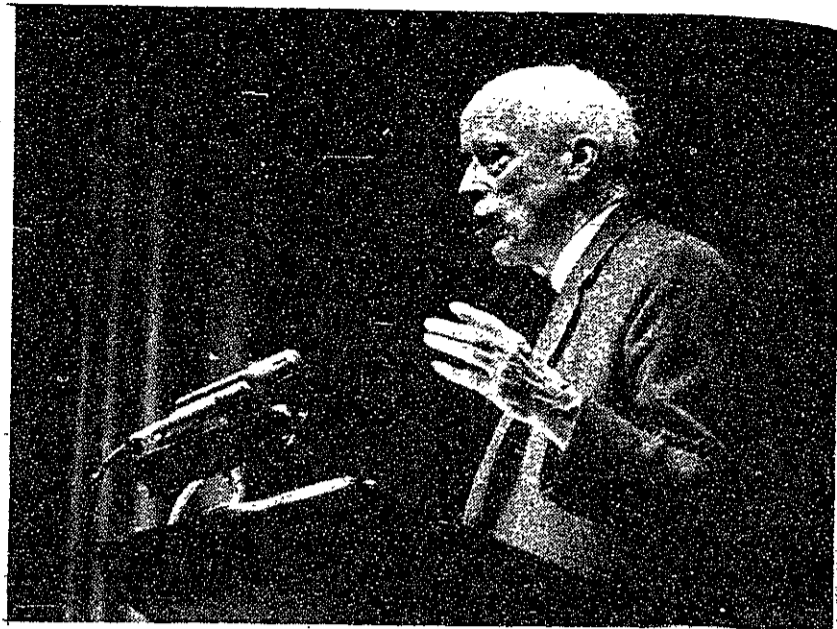
This pattern of argument, many unsubstantial opinions disguised in a vague and meaningless logic, typified the tone of the lecture. Clever biting snide remarks, which led nowhere were abundant. One such humorous remark

Harvard drama soc. presents Frisch's anti-semitism play

Harvard's Adams House Drama Society is presenting 'Andorra' by Max Frisch November 4, 5, 7, 12, 13, and 14 at Adams House. (Plympton Street in Cambridge). Curtain is at 8:30.

This drama, a modern theatrical parable in the tradition of Brecht and Duerrenmatt, deals with the problem of anti-semitism in the imaginary country of Andorra, but its larger implications make it a study of prejudice and the effects of prejudice. 'Andorra' has been a brilliant success throughout Europe. In London the Old Vic performed the Michael Bullock translation used in the Adams House production.

Tickets are on sale at the Harvard Coop and at the door, or by calling 864-6493 evenings.



Norman Thomas, five times candidate for President on the Socialist ticket, spoke in Kesge Auditorium last Wednesday night. Among other topics he spoke on the Vietnam crisis, advocating that we pull out.

actually turned back upon the speaker. In answer to the question of whether the Communists could be trusted to keep a treaty, Mr. Thomas reminded us, in a humorous manner, that we ourselves broke many treaties which we had formed with the American Indian. Well, then, what would his advice have been to the Indian in negotiating further treaties?

In addition to the content of the lecture, Mr. Thomas' manner of presenting his views must be considered. His presentation varied radically between short, highly

emotional periods when it almost seemed as if he were crying in words (I must grant that Mr. Thomas believes in his opinion intensely), and detached, impersonal periods which almost suggested that he was reading another man's speech. Perhaps the patness of his speech was best exemplified by his closing statement, which was snapped off so quickly and with such little sincerity that its triteness was made glaringly evident, "The way we walk is the way to death."

Making the Scene

S	M	T	W	T	F	S
			3	4	5	6
7	8	9	10	11	12	13
14	15	16	17			

THIS WEEK MUSIC

- New England Conservatory—Eunice Alberts Nicholson, contralto; Schubert's "Die Winterreise," Op. 2, 8:30 pm; Jordan Hall; admission free.
- Mariboro Festival—Florence Kopleff, contralto, Ruth Laredo, piano, Jaime Laredo, violin, Samuel Rhodes, viola, and Madeline Foley, cellist; Nov. 4; Jordan Hall. Program: Mozart, "Piano Quartet in E flat," Fine, "String Trio," Brahms, "Two Songs for contralto Viola and Piano," and Dvorak's "Piano Quartet in E flat."
- Gardner Museum—Viola, Betty Hauck, piano, Crin Grossman; Chopin, "Ballade, F minor," Brahms "Sonata," Op. 120, No. 1; Nov. 4, 3:00 pm; evening at 8:45; Anthony Newman and Allan Sly, piano, and Dorothy Bales, Violin; Schubert, "Marche Characteristique," Op. 121, No. 1, "Sonatine," Op. 137, No. 1, "Grand Rondeau," Op. 127, "Der Hirt auf dem Felsen," and "Marche Characteristique," Op. 121, No. 2; admission free.
- Boston Symphony Orchestra—Erich Leinsdorf, Conducting; Prokofiev, R.L.; Nov. 4, 8:30 pm; Hayden, Cello Concerto in C major; Mozart, "Sinfonia Concertante," K. 364; Bartok, Concerto for Orchestra; Boston: Richard Burgin, conducting; Nov. 5 at 2:00 pm and Nov. 6 at 8:30 pm; Schoenberg, "Chamber Symphony," Debussy, "La Mer"; Sorcin, Symphony No. 3.
- New England Conservatory—Gian-Carlo Menotti's "The Saint of Bleeker Street," Nov. 5 and 6, 8:30 pm; Brown Hall; admission \$1.00. KE 6-2412.
- Gardner Museum—The John Oliver Choral; Nov. 6, 3:00 pm; Brahms, "Vier Gesänge für Frauenchor, Zwei Horner, und Harze," Op. 17; Bach, "Kantate Nr. 150, Althe Horth, soprano; admission free.
- Gardner Museum—David Blair McClosky, baritone; piano Josephine Bobulski; Nov. 7, 3:00 pm; admission free.

MIT Concert Band—John Corley, conducting; Nov. 6, 8:30 pm; Kesge Auditorium; tickets free in advance to MITT community in Building 10, \$1.00 at the door.

Baton Society—Jean Pierre Rampal, flutist; Nov. 8, 8:30 p.m.; Kesge Auditorium; tickets: \$1.50; UN 4-864-6493.

Wellesley—Lecture-demonstration by Maria Tallchief and six members of the N.Y. Ballet; Nov. 9 8:00 pm. Alumnus Hall.

Dramashop—Please Don't Walk Around in the Nude" by Feydeau, and "Brewsie and Willie" by Gertrude Stein; Nov. 5, 8:30 p.m.; Kesge Little Theatre.

Harvard Adams House Drama Society—"Andorra" by Max Frisch; Nov. 4, 5, 7, 12, 13, and 14, 8:30; Adams House, Plympton Street, Cambridge. 864-6493.

Wellesley—Experimental Theatre production of "Camille and Perdant" by Alfred de Musset; Nov. 5 and 6, Jewett Auditorium.

MISCELLANEOUS LSC Movie—"Knife in the Water"; Nov. 5, 7:00 and 9:00 p.m.; Room 26-100; admission \$1.00.

LSC Movie—"36 Hours"; Nov. 6, 5:15, 7:30, 9:45; Room 26-100; admission \$1.00.

Ford Hall Forum—James Farmer: "The Black Ghetto, An Awakening Glimpse"; Nov. 7, 8:00; Jordan Hall.

Lecture Series—Allen Kaprow; Monday, Nov. 8, 8:00 pm, New England Life Hall, order tickets through 262-0600.

Film Series—Carl Siembab, Wednesday, November 10, 7:30 pm; New England Life Hall; admission by Institute Membership Card.

NEXT WEEK Humanities Series—Klaus Liepmann: "An Introduction to the Beethoven String Quartets"; Nov. 10, 5:00 pm; Music Library; admission free.

M.I.T. Film Society Presentation—Nov. 8, 8:00 and 10:00 pm; admission charged room 54-100.

MUSIC Folklore Concert Series—Jackie Washington; Nov. 13, 8:30 pm; Jordan Hall; tickets: \$3.50, 3.00, 2.50, and 2.00.

Humanities Series—Fine Arts Quartet; Nov. 14, 3:00 pm; Kesge Auditorium; Beethoven, Quartets in E flat major, Op. 74, B flat minor, Op. 15, and C sharp minor, Op. 131; tickets 3.00.

LECTURES Ford Hall Forum—Adnan M. Pacha, "Is War Inevitable in the Far East," Nov. 14, 8:00 pm; Jordan Hall; admission free.

MISCELLANEOUS Harvard Adams House Drama Society—"Andorra," by Max Frisch; Nov. 12, 13 and 14, 8:30; Adams House, Plympton Street, Cambridge; 864-6493.

LSC—"Cartouche," Nov. 12, 7:00 and 9:30 pm; Room 26-100; admission \$1.00.

LSC—"What a Way to Go," Nov. 11, 5:15, 7:30, 9:45; Room 26-100; admission \$1.00.

Junior Prom—Nov. 12 and 13.

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SATURDAY NOV. 20

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"Great for a Date"

New Christies serve up technique

By Tom Marks

The Thirsty Ear served up, Friday night in Kresge, an entertaining blend of humor and song—The New Christy Minstrels. The Minstrels opened their show with a rousing rendition of "Woke Up This Morning With My Mind on Freedom." From there they sang, clapped, stomped, and strummed their way through fifteen more songs, including their smash hits "Today," "Summertime," "This Land is Your Land," and some of their newer songs.

While on the whole their musical offerings were slightly disappointing, there were several songs that were very good. They did an excellent version of "Drinking Gourd," and their one protest song, "The Wild Mountain Time," was quite beautiful.

The slightly expanded Minstrels now include eight members, including two females; five guitars (including one twelve string), one banjo, drums, bass, and a tambourine. The New Christy Minstrels have made a departure from tradition and worked electric amplification into their "sound," using an electric guitar and bass on some numbers.

The New Christy Minstrels are superb entertainers, and, while it is obvious that they lack any real feel for folk music, they are good technicians. Their sound was always controlled and always en-



The New Christy Minstrels stopped here last Friday to give two concerts in Kresge Auditorium. In addition to modernizing some traditional favorites, they sang the famous 'Bits and Pieces' routine.

Photo by John Torode

thusiastic. Their largest musical fault was their lack of depth in instrumentation; it was disappointing to see them all just strumming along. While to my untrained ear their vocal harmony and presence seemed good, it was obvious on "Green Green" that they sorely missed the services of Barry Maguire.

In their performance, the Min-

strels leaned heavily upon humor, and they were very funny. Especially funny was a skit done by the drummer and the bass player. Their poise and humorous quips helped to establish a rapport with the audience, which they further strengthened by encouraging the audience to sing and clap at the appropriate places.

If The New Christy Minstrels seemed slightly lacking to my purist's tastes, it is because unlike other performers such as Peter, Paul, and Mary, they place their particular emphasis not on adherence to folk tradition or musical excellence, but on enthusiasm and entertainment.

And they are tremendous entertainers.

Eleanor's story sentimental, good; Life story of first lady worthwhile

"The Eleanor Roosevelt Story," written by Archibald MacLeish, directed by Richard Kaplan, narrated by Eric Severeid, Archibald MacLeish, and Mrs. Francis Cole, opening Nov. 7 at Exeter St. Theatre.

By Richard Klass

"The Life of Eleanor Roosevelt" is a documentary written by Archibald MacLeish and narrated by the author, Eric Severeid, and a woman who knew Mrs. Roosevelt as a child. The first third of the movie was devoted to young Eleanor's life. Realizing that she was the "ugly duckling" of the wealthy, socialite family, Eleanor became reticent and introverted. The point of her loneliness was made in the first few minutes of the movie. However in order to dramatize her life, the point was made again and again resulting in a monotonous beginning to the film. However, clever photography of the still-life photographs partly made up for the repetitive dialogue.

The second part of the picture came to life, as Eleanor herself came to life when she married young Franklin Delano Roosevelt. Suddenly becoming active in society, Mrs. Roosevelt was the perfect wife for an aspiring young politician. Excellent choices of movie clippings give the audience an understanding of how Eleanor recognized her responsibility to the suffering and the poor of the world. The movie also shows how she was criticized for traveling extensively for needy causes while she was the wife of the president.

When F.D.R. died Mrs. Roosevelt said, "The story is over," but it was far from the end of her own story. At this point in movie, Mrs. Roosevelt's contribution to the U.N. was emphasized, while

her role in combating McCarthyism and her dispute with the pope was sketchily done. Headlines of, "Mrs. Roosevelt denies being anti-Catholic," somehow left the audience with the same impression as a conversation in which a person said suddenly of a friend, "To my knowledge Jim has never been a communist."

The movie, though overly sentimental at times, was tastefully done. Interesting narrative and good editing also helped make it well worth seeing and clearly showed why Eleanor Roosevelt deserved her title as "first lady of the world."

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LSC CALENDAR

FRIDAY, NOV. 5



KNIFE IN THE WATER

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7 and 9:30

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SUNDAY, NOV. 7 at 8:00

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10-250

50c

Movies and theatres *Inside the earth*

Astor—'Ship of Fools'; 10:30, 1:05, 3:45, 6:20, 9:00.
Beacon Hill—'What's New, Pussycat!'; 10:00, 2:00, 4:00, 6:00, 8:00, 10:00.
Boston Cinerama—'The Hallelujah Trail'; Wed. at 2:00 pm; Sat. Sun. and hol. at 1:30 and 5:00 pm; eve. at 8:30.
Brattle—Kurosawa until Nov. 18. Daily 5:30, 7:30, 9:30; Sat. Sun. Matinee at 3:30.
Capri—'Bamboli'; 10:00, 12:00, 2:00, 4:00, 6:00, 8:00, 10:00.
Center—'Die Monster, Die!'; 'Village of the Vampires'; 9:30, 12:30, 3:30, 6:30, 9:30.
Cinema Kenmore Square—'Casanova 70'; 1:45, 3:45, 5:45, 7:45, 9:35.
Exeter—'Greta Garbo in 'The Grand Hotel'; 2:05, 4:15, 6:30, 8:45.
Esquire—'Nothing But a Man'; 8:30, 9:30, 'One Potato, Two Potato'; 8:00.
Fine Arts—'The Lovers'; 7:00, 10:00. 'The Purple Noon'; 8:45.
Gary—'Soups of Music'; eve. at 8:30 Sun. at 7:30; daily matinee at 2:00.
Loew's—'Orphan—Bedford Incident. Mayflower—'Midnight Lace'; 9:45, 1:03, 4:21, 7:39, 'Love and Kisses'; 11:36, 2:54, 6:12, 9:30, 10:54.
Music Hall—'The Reward'; 2:00, 4:00, 6:00, 8:00, 10:00.

Paramount—'The Hill'; 'Operation CIA'; 9:20, 1:00, 4:30, 6:00, 8:00, 9:35.
Paris Cinema—'The Knack and How to Get It'; 1:15, 3:00, 4:45, 6:30, 8:15, 10:00.
Park Square Cinema—'The Married Woman'; 1:30, 3:30, 5:30, 7:30, 9:30.
Saxon—'Return from the Ashes'; 8:00, 10:00.
Saxon—'My Fair Lady'; eve. at 8:30 Sun. at 7:30; mat. Wed., Sat., Sun. and holidays at 2:00 pm.
Symphony Cinema—'Lawrence of Arabia'; 7:30, 9:00.
Uptown—'Heavens Above'; 'I'm All Right Jack'; 11:00, 12:40, 2:35, 4:10, 6:10, 7:50, 9:50.
West End Cinema—'Armistead General'; 11:10, 2:35, 6:00, 9:20, 'Long Arm of the Law'; 1:00, 4:25, 7:55.
THEATRES
Charles—'The Miser'; Tues. thru Fri. 8:30; Sat. 5:30, 9:00; Sunday at 7:30.
Shubert—'La Grosse Valse'; Mon. thru Sat. 8:30; Wed. mat. 2:15; Sat. matinee 2:30.
Theatre Co. of Boston—'Play' by Samuel Beckett, and 'The Lunch Hour' by John Mortimer; weeknights 8:30; Sat. 6:00 and 9:30.
Wilbur—'The Devils'; Mon. thru Sat. 8:00; Thurs. mat. 2:15, Sat. mat. 2:30.

Press tells latest in earth studies

By David Grosz
The Sigma Xi lecture series of 1965-66 began October 28 when Prof. Frank Press, newly-appointed head of the Department of Geology and Geophysics of MIT, spoke in Kresge Auditorium on recent advances in the study of the earth. Before coming to MIT this fall, Prof. Press attended the City College and Columbia University. He then taught at Columbia and Caltech. He has been honored in many ways: being a delegate to the test ban conferences for four years, being a member of the President's Science Advisory Committee, receiving awards from C.C.N.Y. and Columbia, and even having a mountain named after him—the 7000-foot Mount Press in West Antarctica.

Prof. Press began by giving a summary of earlier knowledge of the earth's structure. He presented theories of the origin of the solar system as an interstellar cloud which condensed, attracted dust, and grew. The molten earth then cooled and solidified over a period of a few million years. He then discussed fluctuations in earth density, which increases with depth, as does the temperature. The density beneath a plain is greater than that beneath a mountain, but is considerably less than the density below the ocean floor. These fluctuations keep the acceleration due to gravity fairly constant. The continents, rather than being supported in the expected way, actually "float," that is, they are supported hydrostatically. The lecturer then discussed some of the newer techniques which have been applied to the study of the earth. In the seismological area, ray seismology, both in the form of earthquakes and man-made experiments, has

shown that the earth's core is fluid and composed mainly of iron. New instruments measure minute strains and tilts of the earth's surface. One of the more interesting discoveries was that the earth oscillates freely in many different modes, and actually produces a "note" about 20 octaves below middle C. Another field, experimental petrology, has posed several unanswered questions, one of the most perplexing being the phenomenon of heat emission from the ocean floor to an unpredictably large degree. Paleomagnetism, the study of fossil magnetism of rocks, has shown that, over great periods of time, the magnetic pole of the earth has moved from a position near the equator to its present site. This fact has convinced geologists that the outer layer of the earth is slowly slipping over the inner layers. However, the related problem of continental drift has not yet been resolved. Prof. Press' talk was complemented by an extensive use of slides. He has performed a service to the academic community by giving a description of impor-

Art lectures presented

Allan Kaprow, Associate Professor of Art at the New York State University's Long Island campus and contemporary artist, will present a series of Monday night lectures under auspices of the Institute of Contemporary Art. Beginning November 8 and continuing through December 13, the lectures will be presented in the New England Life Hall at 8:00.

Science Fiction Society to conduct student poll on policy in Vietnam

The MIT Science Fiction Society, in cooperation with Incomm, is sponsoring a poll to determine the feelings of the students at MIT about United States policy in Vietnam. The poll is being conducted this Friday, November 5 in Building 10 for both undergraduates and graduate students. The poll seeks to determine the varying degrees of approval and/or disapproval of five statements of present or possible policy in

Vietnam. These statements of policy are: "Complete U.S. withdrawal from Vietnam," "A smaller U.S. role in Vietnam," "A continuation of present U.S. Vietnam policy," "A larger U.S. role in Vietnam," and "Direct U.S. war with Red China." In order to evaluate the data, the Science Fiction Society includes on the ballot questions concerning the voter's Course, year, living group, and sex.

Stab at soap opera

Devil's Disciple a satire on morality

By Jeff Satinover
George Bernard Shaw would be incapable of creating a true melodrama. However, he is quite capable of poking fun at one, as he does in "The Devil's Disciple." The Thursday evening performance of the great English playwright's satire on morality was excellent. The play concerns the death of one Mr. Dudgeon, who has met his end after attending the hanging of his brother by the British. Since the play takes place in the winter of 1777, in a New Hampshire town, there is, of course, a puritanical prototype of perfection, played by Miss Judith Pratt, who portrays the widow of Mr. Dudgeon. She loses some of her composure, however, when she learns that her husband has excluded her from his will, in favor of his son, Richard Dudgeon. Richard Dudgeon, portrayed by Mr. Ronald Wallach, is, to his mother's lasting agony, a vagabond, a smuggler, and the only truly honest person in the town, all the while being the devil's disciple. Reverend Anderson, the stolid support of the community, warns Richard that he is in danger of following the same fate as his father. Dudgeon, however, feels that it is the Reverend's life that is in danger. Dudgeon, to his dismay, finds that it is he who is in trouble, in more ways than one, when the British find him with Anderson's wife. Mistaking him for Reverend Anderson, they haul him off to trial. Before he leaves, he warns Mrs. Anderson, played by lovely Elizabeth Cole, not to tell Anderson of the mistake. Nevertheless, she tells her husband what has happened. The surprise twist at the trial makes for some very enjoyable chuckles, and adds to an overall performance.

Miss Cole studied at the Berkoff Studio in New York, and has, among her many credits, "The Physicists," "Miss Jarius," and "Epitaph for George Dillon." Ron Wallach, as Richard Dudgeon, gave a shining performance as the carefree, happy-go-lucky, yet highly principled, devil's disciple. The leads were aided by a fine supporting cast, including Diana Ely, as Essie, the cinderella of the play. All in all, the play was very enjoyable, and this performance gave due credit to George Bernard Shaw's excellent play.

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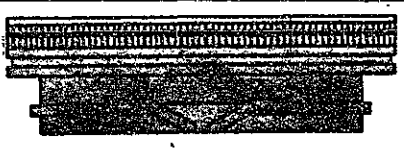
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Judith Pratt has to her credit "Something Unspoken," and "The Three Penny Opera," performed at Montana University. Her characterization of Mrs. Dudgeon in the first act lacked motivation, but picked up considerably during the rest of the play. Reverend Anderson, played by Martin Borolsky, was very convincing throughout the play, dominated the performance — along with Miss Elizabeth Cole as his wife. Miss Cole did a superb job for all three acts, carrying her part flawlessly throughout the play.

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MATHEMATICIANS**

Technical representatives of The MITRE Corporation will be conducting interviews on campus November 5, 1965

MITRE is chief technical advisor and systems engineer to the Air Force Electronic Systems Division of the Air Force Systems Command. In this capacity, we design and develop such global, computer-based systems as the NORAD Combat Operations Center and the Back-Up Interceptor Control System. Other commitments: development of a future air traffic control system and supporting the Defense Communications Agency in the development of the National Military Command System. For the young systems engineer, this is uniquely rewarding work. You associate with the top men in your field. You work in an atmosphere that allows you to extend your capabilities professionally and academically. At MITRE, men trained in single disciplines are encouraged to grow beyond their original fields of interest. Systems designers learn to work from an increasingly broad base. You may work in such diverse areas as information theory, computer design, display techniques and propagation. You may analyze. You may synthesize. You may deal with systems or individual components. At the highest levels, you may have to consider political, economic and social factors... as well as the available and predictable technology. Requirements: M.S., or Ph.D. in these disciplines — electronics, physics, mathematics. MITRE is located in pleasant, suburban Boston and also has facilities in Washington, D. C., Colorado Springs and Florida. If an interview will be inconvenient, inquiries may be directed in confidence to College Relations Coordinator, The MITRE Corporation, Box 208, Dept. CNE, Bedford, Mass.

ARRANGE FOR AN INTERVIEW THROUGH THE PLACEMENT OFFICE.



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Pioneer in the design and development of command and control systems, MITRE was chartered in 1958 to serve only the United States Government. An independent corporation, MITRE is technical advisor and systems engineer for the Electronic Systems Division of the Air Force Systems Command, and also serves the Department of Defense, and the Federal Aviation Agency.

Canada leads enrollment

By John Corwin

(Ed. note: The following is the first in a series of articles on the foreign students at MIT.)

There are 913 students at MIT who are experiencing all of the aspects of college life shared by the entire student body, but who in addition are facing them in the environment of a foreign country, the United States.

These students have several advisory departments at MIT at their service. First and foremost is the Foreign Student Office, headed by Dr. Paul M. Chalmers. In addition, the Health Office, Student Employment Agency, and Academic counselors provide help that might not be available to students at universities abroad.

One-eighth of students back The 693 foreign graduate students and 220 foreign undergraduates comprise just over one eighth of our student body. This fraction is the second highest foreign enrollment percentage in the United States. Howard University is first, and Harvard University is third.

The students come principally from Canada (157), India (90), China (Taiwan and Hong Kong, 62), England (44), Greece (37), Japan (31), and France (29). In all, 69 countries are represented.

Of all of the foreign students here, 227 are married and live with their wives. Thirty-one are women, of whom two are married.

Face financial difficulties

Dr. Chalmers pointed out the basic handicaps that these students face. The most serious is

money, because of the uneven exchange between standards of living. The students tend to have financial difficulty in spite of the so-called "hidden scholarship" of over \$1700 which MIT spends annually on each of its students.

Seven hundred of the students are on visas which forbid them to work significantly during their stay as full-time students. A few have received special permission to work up to ten hours weekly.

It is thus the function of Dr. Chalmers and his associates, Eugene R. Chamberlain, Paul E. Johnson, and Peter D. Leavitt, to take an active interest in the overall welfare of these visitors.

(Next week's article will focus on the major functions and organization of the Foreign Student Office.)

Announce author at Tech Show smoker; month to auditions

Tech Show held its first meeting of the year Sunday, October 23, in the form of a smoker. Stu Vidockler '66, general manager, and John Sowle '67, director, gave those attending a view of last year's show and a glimpse of what might be expected this year. It was also announced that Steve Alter '67 will author the 67th annual performance of Tech Show.

In about a month (the date yet to be decided) auditions will begin for musicians, actors, and dancers. For further information call John Sowle (x-3616), Stu Vidockler (566-1276), or Dave Espar (x-3783).

By John Blankinship

A conspicuous red light suddenly appears on a bank of switches. While one party answers the signal, another unseen, unheard party listens in. Further calls branch out and a bank of five red phones ring in another part of the same complex. The unheard party swings another group into action, never having said a word. Is James Bond off on another adventure? Or is it a fail-safe alert? It is merely the sequence of events which could result from one call on the MIT emergency line.

The emergency 100 line is the hot line to immediate emergency service for all members of the MIT community. It has frequently been of vital assistance to people at times when they have needed aid most. Unfortunately, though, due either to thoughtlessness or unfamiliarity with the system, the 100 line has at times been committed to some rather unusual uses. With very few exceptions, these strange calls have been harmless and of a sincere nature, but they do take up time and, in fact, can cut out an actual emergency call being made simultaneously.

Emergency factor necessary

As advised by Lt. James Olivieri of the Campus Patrol, "a factor of emergency" should be requisite for any 100 line call. In this regard, a bit of discretion would be helpful. An effort should be made to consider the factor of emergency not from the standpoint of what an individual happens to think is important at the moment. Consequently, emergencies such as fire, theft, or serious injury should be reported im-

mediately on the 100 line. On the other hand, if your phone is not operating properly, or if you have accidentally burned your draft card, a cry for help on 100 line would not only prove futile, but also embarrassing.

With respect to the strange uses of the 100 line in the past, students have called up requesting anything from hamburgers to motorcycles. The line has been used several times for information concerning student addresses and the location of the medical department. Burtonites have often dialed 100, thinking that they have reached the Burton desk, which is actually 101.

Hot line "hot stuff"?

Lt. Olivieri will trustingly never forget the time someone (presumably a boy) called on the 100 line and inquired, "Hello, is this Carol?" One could be hard pressed to find an element of emergency in such a call. At other times, students have requested the prompt delivery of ham and cheese on rye and a bottle of beer. The point behind all of these incidents should be clear. The 100 line is not an extension for general information (nor is it Carol's number). It is part of a system designed to render immediate emergency service, and should be used accordingly.

Just what mysterious course of events follow after a 100 line call has been made? Essentially, the line is the first step in a sequence of rapid voice communications. The call can be made on either an institute extension or a dormline extension by dialing the three digits. After the last zero is dialed, the call is fed through a trunk line onto the switchboard

in room 10-285. Here the call appears as a conspicuous red light on the panel before each of several operators.

If the call is made on an institute extension, a stand-by phone simultaneously rings in the Campus Patrol office in Building 20. After the call is answered by an operator, the Campus Patrol listens in on the conversation between the operator and the caller. At this point, so-called "strange calls" quietly pass into history. The operator informs the caller what he has done, and the call is terminated.

In instances of genuine seriousness, the operator quickly determines the nature of the emergency and advises the caller as to what will be done. After the call is ended, the operator immediately makes direct line phone calls to appropriate emergency stations. For example, if there is a fire the Cambridge Fire Department is summoned. The physical plant is then notified, so as to provide for special water and power facilities.

If medical assistance is necessary, a call is promptly made to the Medical Department in Building 11. At this point, five emergency red phones ring in various locations throughout Building 11. These phones are answered in expectation of needed medical service, and hence doctors and other needed medical assistance can be sent without delay.

Operator calls ambulance

In addition, the operator can also call for a Campus Patrol ambulance where necessary. Finally, the Campus Patrol is informed as to the location of the

(Please turn to page 15)

(Advertisement)

STUDENT DISCOUNT CARD COMES TO MIT
VISA IS ORGANIZED THROUGHOUT BOSTON

It appears that the business world has finally concocted a product for the student market that ultimately will benefit everyone involved. Amazing as this may sound, the product is VISA, and on the other 55 college campuses across the country where the program is operating, nobody has lost yet.

VISA is, basically, a discount card for college students only. Members receive discounts at the subscribing stores where they spend money everyday, the savings ranging from 10% to as much as 40%.

Merchants benefit

Stores also, by joining VISA, gain the benefit of an advantage on the market. After all, students with VISA cards will naturally patronize those member establishments which will help realize quickly their initial investments, so as to be able to begin "profiting" from their everyday purchases. And of course this increased volume of trade will more than compensate the owner for the cut in profits resulting from the discount rate.

The national organization and the Boston area

A company organized by two Dartmouth graduates and operating out of Richmond, Va., was established three years ago to coordinate this program on a national level. Therefore, every VISA card is honored at any

member store throughout the country.

Presently VISA is operating nationally; a book listing every member store in the country is expected to be released in the near future. Boston is, however, obviously not like the majority of other cities represented. With such a quantity of college students to boast of, a special effort is being made to contract hopefully nearly 200 stores in this area. Now there are over 100 signed up and honoring your cards, with several major areas still to set up: BC, BU, Northeastern, Tufts, being among these.

Obvious advantage

When you buy a VISA card for only \$3, there are several obvious benefits in the immediate savings you can get.

For example, if you have a date for JP, you can realistically justify one fourth of your investment with what you save on the purchase of your cosage next week. And if you own an automobile, the gas stations, body shops, garages, and parts supplies should quickly become of use to you.

Expenses during the school year on the MIT campus can be cut significantly with a VISA membership. Every Techman gets haircuts, has his shirts laundered, buys his shoes and clothes during the year, gets his shoes repaired, or goes out to eat once in a while. Added up, this is a con-

siderable expenditure, and a discount can save you a good sized pile of dough.

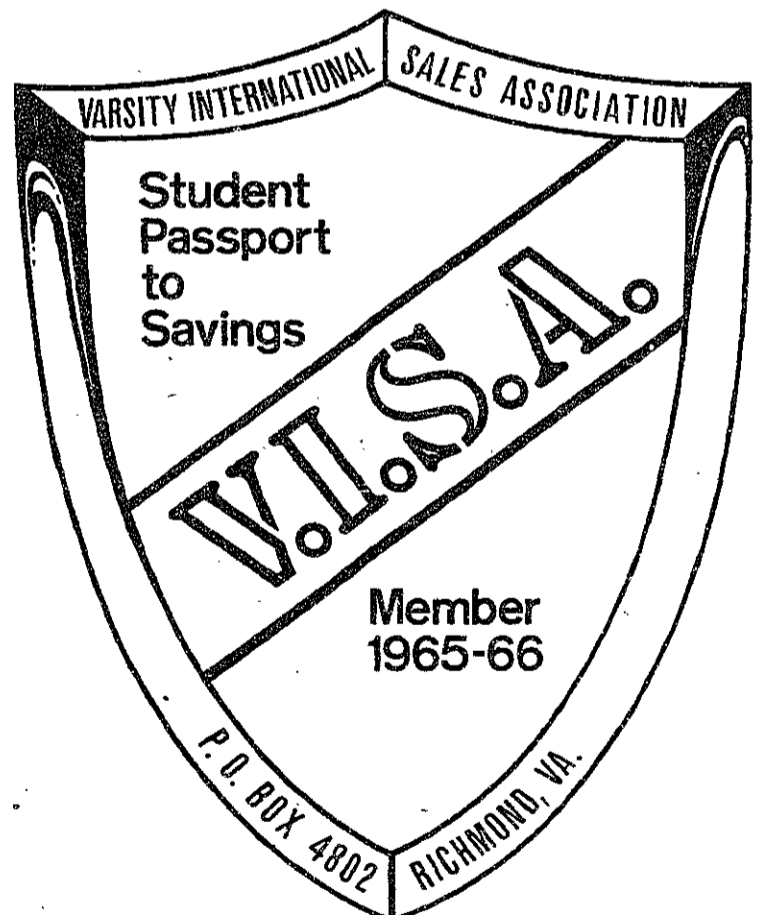
Coeds, too!

After all, VISA was set up in this area to help out girls from Simmons, BU, Radcliffe, Wellesley, and Wheelock, as well as MIT. So logically there are stores participating with the better interests of our coeds in mind: i.e., beauty shops, art stores, and sporting goods stores.

Conclusion

Let's face it! You benefit and I benefit; stores come out ahead; TSE is happy; the VISA people in Richmond are getting richer and consequently spreading the program out to more colleges; printers have a better business printing the cards; the Post Office has an increased volume; the economy is spurred on; soon (you know your 14.01) the prices of the commodities will go up, but why should you worry because you have a VISA card that will get you a better price?

If you would like to assist the nation's economy in this patriotic manner, complete information and lists of stores in the MIT area can be obtained from the TSE office, or by contacting Ted Nygreen, or by waiting until a representative comes to your living group with the full story!



A sample selection of stores displaying this emblem include:

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Simeone's Restaurant	Kendall Shop
Dutch Cleaners	Rosenburg's Shoes
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Central Square Service (Mobil)	Hershon's Appliances (Central Sq.)
BU Field Service (Mobil)	Tower of Pizza
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IN THE NEW M.I.T. STUDENT CENTER

The Bulletin Board

Compiled by the Public Relations Committee of Inscomm, The Bulletin Board is a weekly service of the PRC and The Tech.

Meetings and events may be included in this article and in the MIT Student Bulletin by filling out a form in the Inscomm office or in Mr. Jim Murphy's office in the Student Center at least 12 days in advance of the week the event is to occur.

The deadline for events of the week of November 15-21 is today, November 3.

Further information may be obtained from Bob Howard (x3783), editor of the MIT Student Bulletin.

Wednesday, November 3

- 5:00 pm—MIT Concert Band rehearsal, Kresge Auditorium.
- 5:00 pm—MIT Glee Club rehearsal, Rehearsal Room A, Kresge Auditorium.
- 7:00 pm—MIT Civil Rights Committee: Tutor orientation. Lobby of Bldg. 7.
- 7:30 pm—APO meeting, Student Center, Room 491.
- Nite—VOO DOO: Lit. deadline, Student Center, Room 460.
- 10:00 pm—Lutheran Vesper Service, MIT Chapel.

Thursday, November 4

- 5:00 pm—Tangent: Lit. deadline and meeting, Student Center, Room 485.
- 5:00 pm—MIT Glee Club rehearsal, Rehearsal Room A, Kresge Auditorium.
- 7:00 pm—TCA Mental Hospital Project. Meet in Student Center, Room 450.
- 7:00 pm—MIT Gilbert & Sullivan Society rehearsal, Kresge Auditorium.
- 7:15 pm—Tech Catholic Club meeting, Student Center, Room 407.
- 8:00 pm—MIT Math Club. Open Lecture: Mathematical Linguistics. Speaker: Prof. Noam Chomsky, MIT Professor of Modern Languages.
- 8:00 pm—MIT SSR5 Lecture: Why I Am Contesting the State Teachers' Loyalty Oath. Speaker: Prof. Joseph Pedlosky, Bush Room, 10-105.

Friday, November 5

- 1:00 pm—MIT Islamic Society: Juma Prayers, Rehearsal Room A, Kresge Auditorium.
- 5:00 pm—Tech Catholic Club: Philosophy Class, Room 3-133.
- 5:00 pm—Science Fiction Society, Spofford Room, 1-236.
- 5:15 pm—Vedanta Worship Service, The MIT Chapel.
- 7:00 pm—L.S.C. Movie: Knife in the Water. Admission: 50c, Room 26-100.
- 7:30 pm—MIT Hillel: Friday evening Service, The MIT Chapel.
- 8:30 pm—Dramashop presents an evening of one act plays. Admission: Free, Kresge Little Theatre.
- 9:00 pm—L.S.C. Movie.

Saturday, November 6

- 9:00 pm—Tau Beta Pi business meeting, Student Center, Room 407.
- 1:00 pm—MIT Gilbert & Sullivan Society rehearsal, Rehearsal Room B, Kresge Auditorium.
- 1:00 pm—War Games Society meeting, Student Center, Room 473.
- 1:30 pm—MIT Bridge Club: Masterpoint Tournament, The Blue Room, Walker Memorial.
- 1:30 pm—MIT Chess Club meeting, Student Center, Room 473.
- 5:15 pm—L.S.C. Movie: 36 Hours. Admission: 50c, Room 26-100.
- 7:30 pm—L.S.C. Movie.
- 8:00 pm—SAE Open Bid SAElor Dance, Refreshments, 484 Beacon St., Boston.
- 8:30 pm—MIT Concert Band concert. Program: World Premiere of Festival Symphony by John Bovicchi written for the MIT Concert Band; also works by Schoenberg, Schuller, and Gianini. Tickets: free in the lobby of bldg. 10, \$1.00 at the door, Kresge Auditorium.
- 9:45 pm—L.S.C. Movie.

Sunday, November 7

- 9:15 pm—Roman Catholic Mass, MIT Chapel.
 - 11:00 pm—Protestant Worship Service. Sermon by Rev. Lee.
 - 12:15 pm—Roman Catholic Mass, MIT Chapel.
 - 1:00 pm—War Games Society meeting, Student Center, Room 473.
 - 1:30 pm—MIT Chess Club meeting, Student Center, Mezzanine Game Room.
 - 4:15 pm—Roman Catholic Mass, MIT Chapel.
 - 5:00 pm—A.W.S. Dinner, Student Center, Sala de Puerto Rico.
 - 5:00 pm—MIT Gilbert & Sullivan Society rehearsal, Rehearsal Room A, Kresge Auditorium.
 - 6:30 pm—MIT Concert Jazz Band Rehearsal, Kresge Auditorium.
- (Please turn to page 17)

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Separate emergency line installed: Electrons are suspect Dialing time shortened by 1 second

(Continued from page 13)

fire, so that they may clear an easy route for fire trucks and other emergency vehicles to the scene of the fire.

Throughout the entire sequence of events, the Campus Patrol has been in direct voice communication with the operator. As a rule, though, they seldom offer any comment, and merely listen in on the conversations between the operator and the various emergency stations. This evidently saves time by eliminating an additional call to the Campus Patrol to inform them of the emergency and the procedures that have been taken.

This is, however, precisely the situation that is encountered whenever a 100 line call is made from a dormline extension. The sequence of events is identical with the exception that the stand-by

phone in the Campus Patrol office does not ring. Subsequently, the operator must make an additional call to the Campus Patrol.

New line added

The emergency 100 line has been in operation since 1952. Just this past September 10, a new emergency line, 10, was installed, which provides for exactly the same kind of service as rendered by the standard 100 line. In fact, the procedures involved are nearly identical with a few slight exceptions. First the 10 line call must be made from an institute extension. Secondly, the 10 line has the distinct advantage of having two open lines instead of one, as in the case of the 100 line. Hence, if either one is being used, the other is always available. In addition, dialing time is shortened by about one second.

To repeat, 10 and 100 line calls should be restricted to calls of an emergency nature only. Ordinary calls to the Campus Patrol should be directed to institute extension 2997. General information should be obtained by dialing institute extension 30. Hopefully, no one will ever have to use the 10 or 100 lines.

By John Blankinship

Quantum electrodynamics, physiology, neurophysics, psychology, and nuclear physics are combined by at least one group activity at MIT. These topics and a sense of adventure and insight are all part of the MIT Parapsychological Research Group.

The principal objective of the group is to foster an interest in parapsychology on the MIT campus. As they define it, parapsychology deals with inter-actions between persons and environment which do not appear to be mediated by ordinary sensorimotor channels. The intent of the group is to establish a correlation between parapsychological phenomena and basic physical laws. The group has functioned with this objective for approximately five years.

New ESP theory proposed

The focus of all thought and discussion in the group has been a theory — developed by Durk Pearson, an MIT physics graduate and former president of the group — which claims to explain ESP phenomena without the introduction of new physical laws or physiological features. The theory proposes that all ESP phenomena can be reduced to interaction on the sub-atomic level.

The theory draws on work done by Dirac in the existence of negative energy states and by Feynman in quantum mechanics. According to the theory, sub-atomic interactions in the presence of strong electric fields can cause pair formation, i. e., the creation of electrons and positrons which travel forward and backward respectively in time. (In this regard, Feynman has remarked that positrons are, essentially, electrons moving backward in time.) The crux of the theory is that electrons moving in time are the stimulus for memory in the future and that positrons moving backward in time are the stimulus for precognition in the past.

The notions that can be extrapolated from this theory are many and varied. Consider the phenomenon of precognition. Suppose that a particular airline flight is avoided because of precognitive visions of a nosedive into the Great Court. According to the theory, a person reading about the accident in a newspaper two days later generates thought perturbations which emit positrons into the past. Their reception by an individual two days earlier is interpreted as precognition. The exact mechanism by

which positrons carry thoughts of the future has not been postulated.

Theory seems practical

In practice, the theory explains a great many natural experiences. Precognitive dreaming occurs more frequently during sleep, because there are more information channels open to the reception of thought, perturbations, due to the reduced activity of the senses. In this respect, the brain is a kind of induction coil that transmits and receives energy waves. This notion would explain why neurologists have not been able to locate, exactly, the area of the brain responsible for memory. Perhaps it simply does not exist. Instead, the brain picks up electrons moving forward in time and in some way, interprets this reception in the process of remembering.

An important consequence of this theory is that all people inherently have a capacity for ESP, but that invariably there are psychological and physiological factors that reduce its effectiveness. Psychological fear of the future is a deterring factor in precognition. Emotions and worrying

tend to interfere with the proper reception of energy waves. With these features in mind, it is possible to understand why certain individuals are more inclined to experience ESP phenomena than others.

The MIT Parapsychological Research Group has planned several activities for the following years. Sometime in the spring they will make their annual visit to the Parapsychological Laboratory at Duke University to study the experimental techniques used there. In addition, the group is looking forward to some experimental research of their own for the first time this year. They hope to obtain the use of a 500,000 volt Van de Graaff generator and a man-sized Faraday cage. They speculate that since negative energy waves are radiated from strong electric fields, they will consequently be attracted to other strong electric fields.

If their theory is correct, a person placed inside a Faraday cage surrounded by a strong electric field, should have significantly raised ESP scores. The group will publish its findings in a magazine on parapsychological communications early in 1966.

NSF announces fellowship application deadline; Awarded for study in almost any area

Called upon to advise the National Science Foundation, the National Academy of Sciences-National Research Council will aid in the selection of candidates for the Foundation's program of graduate and regular postdoctoral fellowships. Committees of outstanding scientists appointed by the Academy-Research Council will evaluate applications of all candidates. Final selection will be made by the Foundation, with awards to be announced on March 15, 1966.

Fellowships will be awarded for study in the mathematical, physical, medical, biological and engineering sciences; also in anthropology, economics (excluding business administration), geography, the history and philosophy of science, linguistics, political science, psychology, excluding clinical psychology, and sociology (no including social work). They are open to college seniors, graduate students working toward a degree, postdoctoral students, and others with equivalent training and experience. All applicants must be citizens of the United States and will be judged solely on the basis of ability.

Applicants for the graduate awards will be required to take the Graduate Record Examinations designed to test scientific aptitude and achievement. The examinations, administered by the Educational Testing Service, will be given on January 15, 1966, at designated centers throughout the United States and certain foreign countries.

The annual stipends for graduate Fellows are as follows: \$2400 for the first level; \$2600 for the intermediate level; and \$2800 for the terminal level. The annual stipend for postdoctoral Fellows is \$5500. Limited allowances will also be provided to apply toward tuition, laboratory fees, and travel.

Further information and application materials may be obtained from the Fellowship Office, National Academy of Science-National Research Council, 2101 Constitution Avenue, N.W., Washington, D.C. 20418. The deadline for the receipt of applications for graduate fellowships is December 10, 1965, and for regular postdoctoral fellowships, December 12, 1965.

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AT NOL, WEAPONS DEVELOPMENT IS CARRIED THROUGH FROM INCEPTION TO DESIGN TO PROTOTYPE TEST AND DEVELOPMENT. NOL is a unique organization—a laboratory within the real meaning of the word—and one of the largest laboratories in the world. A civilian staff of over 3,000 people includes more than 1,000 professional engineers and scientists—experts with national and international reputations. Extensive and unique facilities embrace wind tunnels operating to Mach 17, hypervelocity ballistic ranges, the world's



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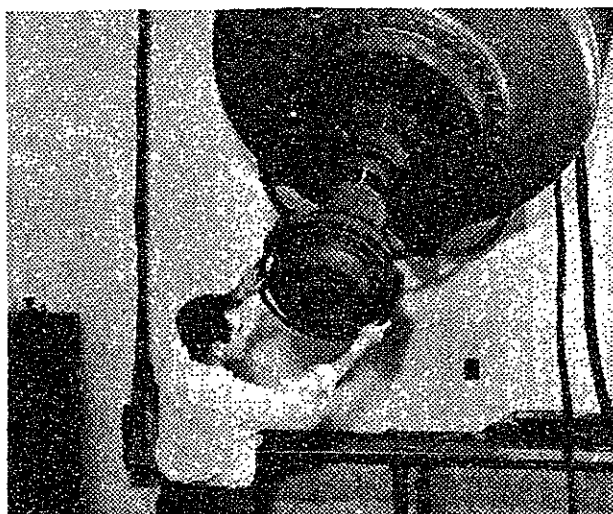
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SSC sponsors local tutoring project

By Jim Smith

"As I look at you, I do not see you as tutors; rather I see you as living symbols of the meaning of education. Tutoring Plus is more than just tutoring..."

In this way Miss Elsa Baldwin on the Cambridge Alliance of Settlements expressed the function of the Social Service Committee's local tutoring project. Miss Baldwin was the final speaker in a two and one-half hour program of tutor orientation that included introductions, a statement of the problems in Cambridge Area 4 where Tutoring Plus is most active, a short history of the two year old project, a talk on techniques of tutoring, and discussion groups on the more specific techniques and problems of tutoring.

Starting the meeting and introducing the program officials was this year's Area 4 project director, Mr. John McWane. Directing the tutors' attention to the orientation material given them, he

warned the tutors not to believe that even a majority of the problems of tutoring were mentioned, but did suggest that they keep the material for reference as problems arise.

Problems discussed

Next Mr. Charles Clayman and Mr. William Mangan discussed the problems in Area 4 wrought by the high density of industry and housing, and the lack of recreational area coupled with the existence of only one standard (i.e., non-vocational) high school in all of Cambridge. Lack of motivation was mentioned as the result of predominantly blue collar status among the adults, reflecting the adults own lack of education.

Miss Isabel Pifer next discussed the conception of Tutoring Plus and its brief history. Basically, she said, Tutoring Plus was the result of a sharp reaction on the part of parents and administrators to the frightening trend they noted so recently toward truancy and juvenile delinquency. Due to the nature of this trend, it was decided that the best program would be an education-oriented one that simultaneously rebuilt the community's aspirations and belief in education.

With the problems and the program thus described, then, Mrs. Dorothy Weitzman, supervisor of the project, went on to describe the tutors' actual place in the Area 4 project. "You will encounter many problems," she said, "and you will suffer much

discouragement. You will find, for example, that the reason a tutee is doing poorly is that he doesn't know certain basics from two or three years back, and you will have to determine how to revert to those basics without discouraging the tutee. Another problem you may run into is absences.

Many questions to arise

"You will also have many questions," Mrs. Weitzman continued. "Should you drill the tutee on basics, should you concentrate on the immediate work he is doing in school, or should you informally discuss interesting topics as they occur to you? What about his study habits? Should you try to influence them? And how? What about lack of motivation? How should you tell him to get motivated? Or should you tell him at all? And what about field trips? Should they be just fun, or should they be directly related to what you are teaching him. Or should they be merely to help you to get to know him better?" In all these questions, Mrs. Weitzman said, the tutor should feel free to contact her and other supervisors, and not simply try to go it alone."

Discussion groups formed

After a brief pause for refreshments, the group split into three discussion groups according to the grades of the tutees already assigned or of the grade which the unassigned tutor was interested in. There was one group for grades 1-4, one for grades 5-8, and one for high school.

The second of these groups, for grades 5-8, was led by Jill Totenburg, a freshman from Boston University, and a veteran tutor.

The discussion concerned the collective problems which the veterans in the group had experienced, and the techniques they had employed to solve them. Some of the problems mentioned were stuttering, the lack of comprehension on reading assignments, and the fact that almost none of the tutees have ever read a book to the end. Some of the solutions were reading in class by both tutor and tutee, and selection of reading material that was exciting and stimulating.

The most interesting problem brought forward in the group was the problem of the tutees' parents. Parents, Jill pointed out, can be either really frightening or really helpful. The problem is to get on the right side of them as soon as possible. First, it was agreed, the tutor should try to meet the parents soon and often to show that he earnestly cares about the tutee. To avoid antagonizing them later, it was agreed for one thing, that the tutor should not take the tutee to his own house, for this would merely accent the difference in status, which is the prime area of attack in the first place. On the other hand, it was mentioned that mothers are particularly good at finding free activities which might make good field trips.

(Please turn to Page 18)

Soccer team loses to Norwich; Edges Brandeis 2-1 in overtime

By Bob Sultan

The Tech soccer team edged out Brandeis with a 2-1 victory, which wasn't secured until the second overtime period of the game on Tuesday, October 26. Our squad easily punctured the Brandeis defense by outrunning and outmaneuvering them, but couldn't seem to push the advantage far enough to score.

Finally, early in the fourth period, Bayo Ajadi '68, dribbled around a Brandeis back, caught the goalie off guard, and booted one in, breaking a Brandeis 11 period shutout string. Brandeis matched the goal late in the period and the game went into overtime. Early in the second overtime period George Busby '68, passed to Bayo who fired it in for the winning goal.

Team Loses at Norwich

The squad didn't fare as well against Norwich University on Saturday, October 30 and was downed 3-1. Norwich played an aggressive first half. Somewhere in the midst of a scene of general confusion at the MIT goal the first score was slammed in. The second was a high kick which loped over Ajadi's head and drifted into the goal before goalie Avrim Markowitz '67 had time to recover from a previous play. The third was a penalty kick for which there is little that the defense can do.

The Tech team settled down somewhat for the second half and the teams seemed more evenly matched. It was a "could've won it" game for the Tech team. The scoring opportunities were there

but the scores weren't.

Markowitz did a great job of not only defending the goal but getting the ball downfield and George Jones '67 was constantly bringing the ball out from deep in Tech territory and putting it down almost in front of the Norwich goal. The setups were great but the offense just couldn't seem to carry through on the plays. George Busby got into the clear but fired off his shot before he had to. As a result the shot fell short and was grabbed by the Norwich goalie who threw it downfield. The throw was too low and bounced off Busby's back. Unfortunately Busby didn't take advantage of the Norwich goalie's blunder and let the ball get away from him.

Sonny Alexis '68 moved the ball to within ten yards of the Norwich goal and passed to Bayo who was right next to the goal. Bayo wanted to surprise the goalie by shooting quickly but in his haste got off a bad kick and the goalie picked it up.

Norwich team big

There were several additional plays which were beautifully set up but fell through just short of goals. The Norwich players averaged some 20-30 pounds heavier than our men which made effective charging of the goal almost impossible. Busby, who weighs only about 130 pounds tried it and got slammed so hard he had to leave the game. It's a hard way to lose.

Bayo scored on a penalty kick before the final gun, bringing the tally up to 3-1.

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The Bulletin Board . . .

(Continued from page 14)

- 8:00 pm—MIT Society of Radicals for Capitalism. Student Center, Room 467.
- 8:00 pm—L.S.C. Classic Movie: The Body Snatchers and the Freaks. 10-250. Admission: 50c. Monday, November 8
- 5:00 pm—MIT Concert Band rehearsal. Kresge Auditorium.
- 5:00 pm—MIT Outing Club meeting. Student Center, Room 491.
- 5:00 pm—Gilbert & Sullivan Society rehearsal. Kresge Auditorium.
- 7:30 pm—Dramashop tryouts for major production. Kresge Little Theater.
- 8:00 pm—Social Service Committee meeting. Student Center, Room 400.
- 8:00 pm—MIT Film Society. Program: N.U. by Antonioni, Cosmic Ray by Comer, Dag Star Man: Prelude and Part IV by Brakhage, also films by Mideke, Siani, and Beer. Admission: \$1 per person. Room 54-100.
- 8:30 pm—Jean-Pierre Rampal and Vegrun La Croix: Flute and harpsicord concert presented by MIT Baton Society. Admission: \$1.50 per person. Kresge Auditorium.

Tuesday, November 9
5:00 pm—MIT Glee Club rehearsal. Kresge Auditorium.

- 5:00 pm—Society of American Military Engineers meeting. Room 20E-106.
- 7:00 pm—Gilbert & Sullivan Society rehearsal. Kresge Auditorium.
- 7:15 pm—Christian Science Service. MIT Chapel.
- 7:30 pm—MIT Symphony Orchestra rehearsal. Kresge Auditorium.
- 7:30 pm—Dramashop Tryouts. Kresge Little Theater.
- Wednesday, November 10
- 12:00 noon—Episcopal Communion Service. Speaker: Fred Cleveland, followed by lunch. MIT Chapel.
- 5:00 pm—MIT Concert Band rehearsal. Kresge Auditorium.
- 5:00 pm—MIT Glee Club rehearsal. Kresge Auditorium.
- 5:00 pm—Lecture by Klaus Liepmann: An Introduction to the Beethoven String Quartets. Admission: Free. Music Library.
- Night—Yoo Doo make up. W20-460.
- 7:15 pm—TCC-VCF-1st Lutheran Church Forum Film: Question Seven. Admission: Free. Coffee and doughnuts. Room 26-100.
- 7:30 pm—Gilbert & Sullivan Society rehearsal. Kresge Auditorium.
- 10:00 pm—Lutheran Vesper Service. MIT Chapel.
- Friday, November 12
- 1:00 pm—MIT Islamic Society: Juma Prayers. Kresge Rehearsal Room A.
- 5:00 pm—Tech Catholic Club: Philosophy Class. Room 3-133.
- 5:00 pm—Science Fiction Society meeting. Spofford Room 1-236.
- 5:15 pm—Vedanta Worship Service. MIT Chapel.

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Booters achieve first victory, 2-0

By Tom Thomas

The MIT frosh won their first soccer game of the season on Tuesday October 26. In a tight contest the Techmen emerged victorious over Newton H.S. 2-0.

There was no scoring in the first half as goalie Jeff Reynolds, on the way to his first shutout, made some fine saves. With seven minutes remaining in the second half, Jeff Weissmann scored on a penalty kick to break the ice. Steve Bridges added another goal with a sprint up the middle and a fine shot. Drawing praise from coaches for his all-around hustle was co-captain Carl Everret.

On Saturday the 30th the squad lost their seventh game 7-1. A fast, competent Amherst eleven proved too much for the frosh. Weissman, center halfback, scored for the second consecutive game on a penalty kick; and Steve Bridges, outside right, played another fine game, also. Today the frosh will wind up their season with a 3 pm contest here at Briggs Field against Phillips Exeter Academy.

Cross Country

Our frosh harriers suffered their second loss of the season, finishing second to a strong Northeastern squad this past week. In the scoring of the three-way meet was Northeastern, 23; MIT, 37; Tufts, 72. Northeastern displayed a balanced team garnering five of the first eight places. Tufts was obviously outclassed by her two rivals.

Frosh sensation Stan Kozubek suffered his first individual loss at the hands of Northeastern's Bob Bruen. Even though finishing in his best time of the year (11:48), Kozubek was passed with 200 yards remaining. Tom Najarian, Jim Yankaskas, Rich Wolfson, and John Usher were also in on the scoring for Tech with Najarian and Yankaskas in their usual dogfight for second among the Tech runners.

With their record standing at 7-2, the frosh cross country squad was vying for top honors in the Greater Boston College meet on Tuesday, October 2.

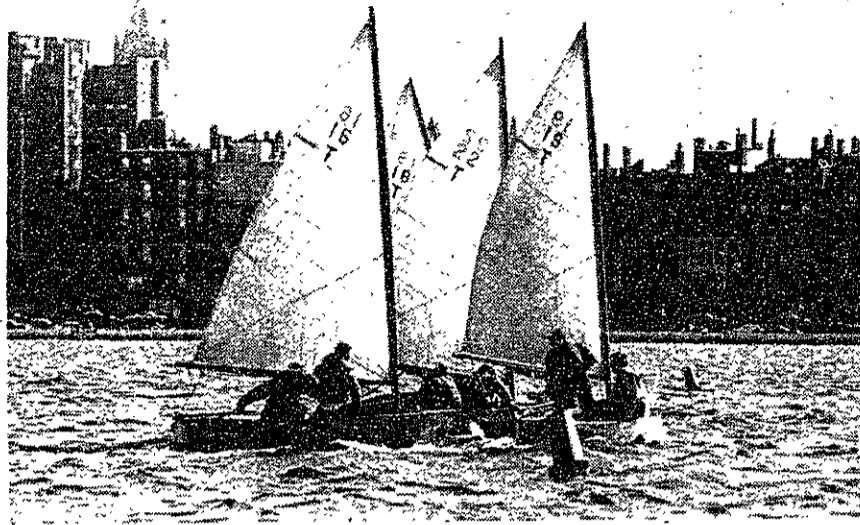
1. Bruen, NE—11:45.6; 2. Kozubek, MIT—11:48; 3. Lake, NE—12:04; 4. Barber, NE—12:15; 5. Najarian, MIT—12:26; 6. Yankaskas, MIT—12:27; 7. Doinae, NE—12:30; 8. Curdett, NE—12:32; 9. Wolfson, MIT—12:34; 10. Power, NE—12:38; 11. Thompson, Tufts—12:49; 12. McDonald, NE—12:50; 13. Anderson, Tufts—12:51; 14. McKuwn, Tufts—12:53; 15. Fuley, NE—12:55; 16. Usher, MIT—12:58; 17. Scroner, NE—13:11; Franklin, NE—13:13; 19. White, MIT—13:24; 20. White, Tufts—13:29.

Sailing

In the Priddy Trophy competition here at MIT last weekend, URI displayed once more that it has the team to beat in frosh sailing. Meanwhile, MIT finished a respectable sixth in the seventeen-school regatta, with each school being represented by one boat.

In eliminations on Saturday the field was narrowed to eight schools. On Sunday the finals of the meet were completed on the Charles. A thirty miles per hour wind necessitated a change to smaller sails for the eight boats remaining in competition on Sunday.

Manning the MIT entry, Dick



MIT freshmen sailors Dick Smith and Dave Fay (boat 16) race three opposing crews in a qualifying race for the Priddy Trophy held on the Charles last Saturday. The Tech crew qualified for the finals, but placed 6th.

Smith, and Dave Fay, skipper Island—53.5; 2. Coast Guard—47.5; 3. Brown—46; 4. Babson—45; 5. Maine—41; 6. MIT—39; 7. U. of Rhode Island—38; 8. Dartmouth—28.

Concluding talk expresses feeling of pride; "Much frustration, but change does come"

(Continued from Page 17)

Groups recombine

At this point the three groups got together again for the closing talk by Miss Baldwin. In short, her talk was optimistic and conveyed her pride at having MIT, Harvard, and Lesley to help her in "a bold attempt to regain the community's aspirations and belief in education." There are many complexities and much frustration, she said, "and change usually comes only over a period of years. But change does come, and already our files can prove this."

At times you will experience great frustration, but this frustration is all in a good cause. In addition, the mere number of you tutoring these children helps impress upon the entire community the fact that you do care. The requests we receive daily from other communities indicate the impact you have already had on Cambridge.

"Good use of great resources"

She concluded: "We are dealing with a great anomaly. Here in Cambridge are the tremendous educational resources of two major universities. And yet also in

Cambridge we have a high number of culturally deprived citizens. The problem, simply, is that these tremendous resources have not yet filtered down to the very citizens of Cambridge itself, due to social pressures, institutional blocks, and the like. You are helping to eliminate this anomaly in an exciting and dramatic way. You are part of a great experiment in education, and I am proud to be working with you."

How They Did

Cross Country

Northeastern 22, MIT (V) 56, Tufts 56

Northeastern 23, MIT (F) 37, Tufts 72

Rugby

Boston Rugby Club 3, MIT (A) 0

Soccer

MIT (V) 2, Brandeis 1

Norwich 3, MIT (V) 1

MIT (F) 2, Newton HS 0

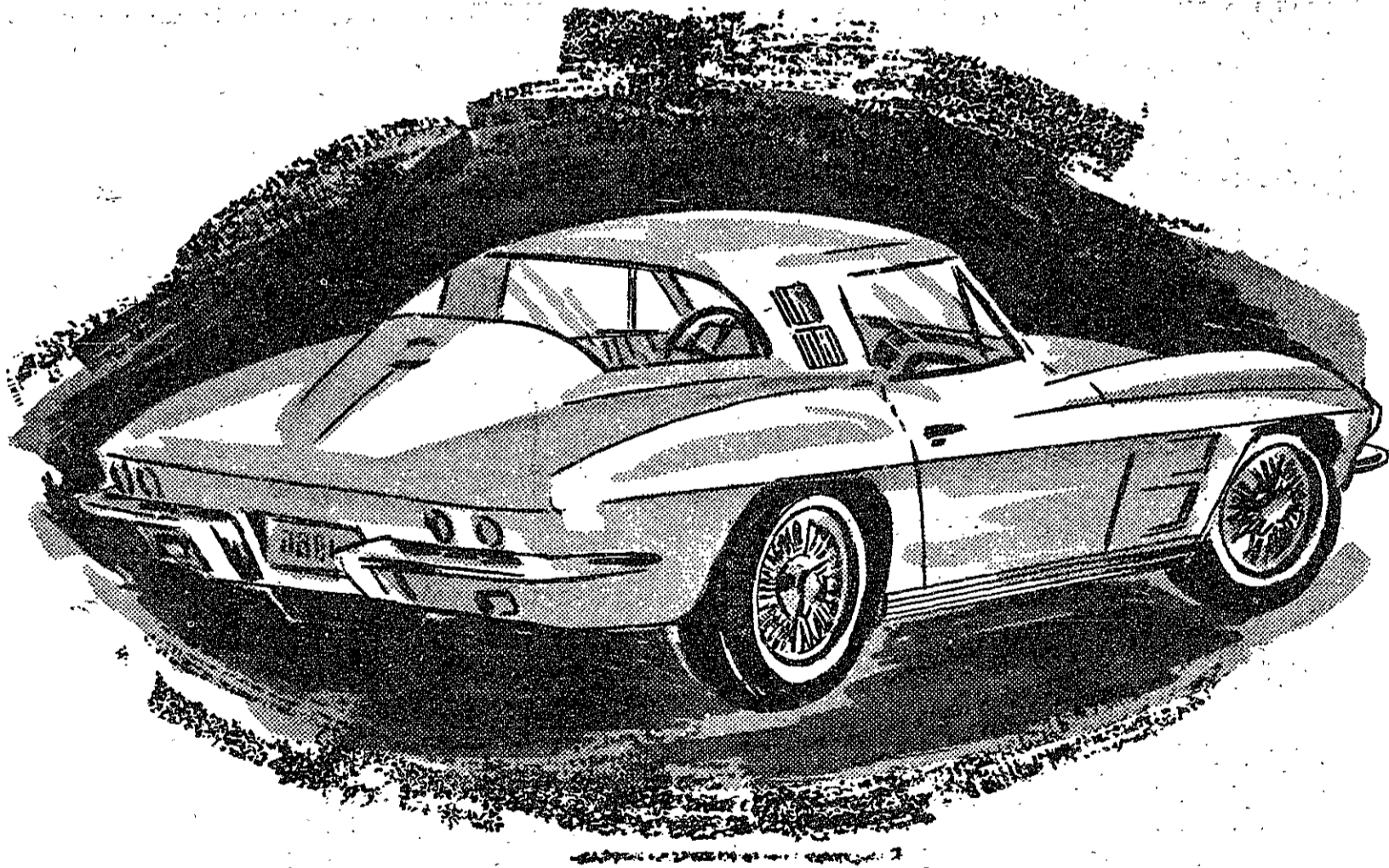
Sailing

MIT (V) placed first in the NEISA sloop championships

MIT (V) placed 2nd in the Nevins Memorial Regatta

MIT (F) placed 6th in competition for the Priddy Trophy

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IM basketball opens with full slate: Lambda Chi defeats Sig Ep 60-22

By Herb Finger

An eight game slate opened up the 1965-66 Intramural Basketball season this past Sunday. In Major League action Lambda Chi Alpha was just too strong and too fast for Sigma Phi Epsilon as they trounced Sig Ep 60-22. The Lambda Chis started off hot right away and gave Sig Ep no time to recover as they led at the end of the first quarter 11-0. It was the same story throughout the game as they completely overwhelmed Sig Ep with their fast-breaking offense. Bruce Twickler '67 was the key to their fast break scoring 18 points. Ken Follansbee '67 gave Lambda Chi a strong one-two punch by chipping in 17.

SAE over ATO

Sigma Alpha Epsilon was slow starting in the first half of their game with Alpha Tau Omega; but SAE didn't hold back after the second quarter, as they defeated ATO 53-35. After a 19-16 score at halftime, SAE took control. They calmed down from their shaky beginnings and worked the ball for their best shots, which they hit.

Bill Dix '67 led the SAElor scoring with 16 points. Don Paul '67 added 11, while Don Rutherford '67 and Gil Cox '68 both had nine.

Deltas trip Pi Lam

In other action Delta Tau Delta edged out Pi Lambda Phi 30-29; Terry May '66 putting 15 points for Pi Lam. Student House outscored Senior House 41-24, Burton "B" over Baker "B" 43-25, NRSA swamped Ashdown Dining 53-26, East Campus "A" outplayed Theta Chi "B" 49-31, and Delta Kappa Epsilon won over Kappa Sigma 32-24.

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Photo by Pete Blicher

ATO center Jack Bowie '68 grabs the ball away from SAE forward Don Paul '67 in IM basketball action last Sunday night. Looking on are ATO's Bob MacGregor '69, Andy Achterkirchen '64 and Dave Hinchey '68.

For the next two weeks nine games are being played every night in order to allow for make-ups in December. Thereafter six games will be played per night, three at 7:15 and three at 8:30. Bill Dix, intramural basketball manager, asks that any problems with rescheduling be brought to his attention well before the day of the game to facilitate matters.

McAdams honored as Society Member

Dr. William H. McAdams, emeritus professor of chemical engineering and a pioneer in research dealing with heat transfer, has been elected a Fellow Member of the American Society of Mechanical Engineers.

He is the author of the first English-language textbook on heat transfer. This handbook, written in 1933, is still used as a handbook by engineers in the field and continues to be used as a textbook in colleges and universities throughout the world.

the sports spot

The winter sports season, which features ten intercollegiate varsity teams, has already commenced but will not swing into full action until early December. In general, the situation appears quite promising, especially for coach John Barry's basketball quintet. All but three of the Tech teams can boast at least five returning lettermen.

Cagers look good

Experience and height are the components of a basketball team which should find defeats hard to come by. This veteran squad has a twenty-six game schedule, the largest in MIT's history. Captain Jack Mazola '66, playing in the backcourt, should receive plenty of board strength from juniors Bob Hardt at 6' 6" and Alex Wilson, just one inch shorter. This trio averaged 12.7, 13.7 and 15.2 points per game last year, respectively.

Dave Jansen, '68, who ripped the net for over 23 points a game on the freshman team last year, is expected to break into coach Barry's line-up. At 6' 4" he will complement Tech's rebounding power.

A home game against Trinity on Dec. 1 opens a season which will be highlighted by a round robin Union Tournament in Schenectady, N.Y., from Dec. 28 to 30, the Blue Nose Classic Tournament in January, and a Jan. 4 home game against Harvard. The last time MIT won the Blue Nose Classic, which is held in Halifax, Nova Scotia, was in 1961. That same year witnessed the cagers' last meeting with Harvard. The basketball team has an excellent chance to better its 1964-65 record of 14 and seven.

The wrestling team, captained by seniors Marland Whiteman and Chip Hultgren, has a core of nine returning lettermen. In addition, they will be aided by the grappling of Norm Hawkins '68, who during his previous campaign on the freshman squad captured the

Winter outlook optimistic

New England Collegiate Wrestling championship in the 147 pound class.

Grapplers host New Englands

In addition to its twelve meets, Coach Bill Chassey's matmen host both the New England Championships, March 4 and 5, and the Holiday Christmas Tournament. The depth of experience should lead to a successful campaign for the wrestling team.

The hockey team's 16 game schedule opens December 4. Captain Loren Wood '66 heads a group of seven returning lettermen. Last season he racked up 20 points on the strength of seven goals and thirteen assists. Goalie Bob McDonald '66 will be in the nets for his second year. Last winter the squad bettered its 0-16 record for 1963-64 by notching four victories. Coach Ben Martin is anticipating similar improvement this year.

Captain Mike Crain '67 is the big man for the swimming team. As a sophomore he broke the school record for the 50 and 100 yard free style. Coach Charlie Batterman will be depending on many of last year's freshman swimmers. The first of twelve dual meets comes against Tufts on Dec. 8, away, while the prestigious New Englands fall one month later.

Indoor track begins

The indoor track team boasts ten returning lettermen, led by miler Sumner Brown '66 and middle distance Larry Schwoeri '66. Brown, the defending champ in the New England AAU 1000 yard run, trotted a 4:18 mile last season to smash the school's indoor and outdoor record. Another record holder who will be in action this winter is Steve Sydorik '67. He set the freshman pole vault mark at 13' 2 1/4" last year and is expected to shatter the varsity height of 13' 6".

The track team participates in seven dual meets, the first of which is a contest at home against

Bowdoin on the fourth of December. They will host both the MIT invitational on Feb. 5 and the Greater Boston indoor track championship the following week. The BAA and the Nights of Columbus, both held in the Boston Garden, should witness Coach Art Farnham's thinclads keeping pace with the area's top runners.

MIT's fencing team, tutored by Fencing Master Silvio Vitale, hopes to return to top spot in New England, which they occupied during the 1963 and '64 season. Last year they only captured second place. Senior co-captains Carl Kunz and Tom Sedon will receive plenty of depth from New England's foil champion George Churinoff '67. The team will play the first of its 12 dual meets on Dec. 1, against Holy Cross at home. Climaxing the season will be the New Englands and the Easterns early in March.

Skiers rebuild

The only group which seems to be faced by a rebuilding season is the ski team. With a 2-5 record last year and only three returning lettermen Coach Bill Morrison will rely heavily on captain Dave Avrin '67. The squad's biggest match is the EISA championship to be held on March 26 at Colby college.

The squash team faces its perennial fate: dominance over all the small eastern schools but defeat at the hands of the nation's top outfits. Though such stiff national competition inevitably leads to unimpressive records, Coach Ed Crocker's crew should be tough in New England. A Dec. 12 match against Adelphi marks the first of twelve dual meets. Highlighting the season will be the Nationals at Annapolis, March 4 and 5.

Pistol team wins

Under the new guidance of 21 year Air Force veteran Tom McClemon, the shooting teams have already racked up their first victory. Tuesday, Oct. 26, Bill Hamilton '66, Dennis Swanson '67, and John Reykijlan '67, led the pistol squad to a trouncing over Arlington. While the pistol team participates in the Greater Boston Pistol League, the riflers, led by Captain Steve Walther '66 and Tom Hutzelman '66, are members of Collegiate conferences in the Boston and New England areas.

Experience looms as the major asset of the winter sports teams. Participants and spectators should enjoy a greater number of victories than they ever have.

On Deck

Wednesday, Nov. 3
Soccer (F) — Phillips Exeter Academy, Home, 3:00 pm
Saturday, Nov. 6
Soccer (V) — Connecticut, Away, 2:00 pm
Sailing (V) — Schell Trophy at Coast Guard, (through Sunday)
Sunday, Nov. 7
Sailing (F) — Minor at Tufts
Pistol (V) — Mass. State Championship
Monday, Nov. 8
Cross Country (V) — New Englands, Home
Cross Country (F) — New Englands, Home

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Schwanz is sloop champion

By John Kopolow

MIT sailors competed in two regattas this past weekend and came home with one win and one near-miss in which they came in second, eight points behind the leader. This could be considered a most successful weekend for any team but the Tech sailing squad, which is in the habit of winning everything they enter.

Schwanz takes Sloop championships

In the New England Intercollegiate Sailing Association sloop championships MIT skipper Don Schwanz proved that his clean sweep of the eliminations three weeks ago was no fluke. The regatta was held at the Coast Guard Academy last Saturday and Sunday. The wind blew at a steady twenty miles per hour both days.

Schwanz had to withdraw from the first race, but he and his crew — Tom Maier, Mike Johnson, and Jack Turner — came right back to win four of the next five races. As a result they had a substantial lead at the end of the first day.

Tech was not quite as successful the second day but still managed to win three more races. Thus Schwanz totaled 68 points out of a possible maximum of 84. MIT was followed by Tufts with 66, Coast Guard, 53, Colby, 45, Rhode Island School of Design, 42, and Yale, 38.

MIT second in Nevins Regatta

The bulk of Tech's sailing team traveled to King's Point, the home of the Merchant Marine Academy, for the Nevins Trophy Regatta. This was also a two-day meet, which was marked by very strong winds and turbulent seas. The final standings were as follows:

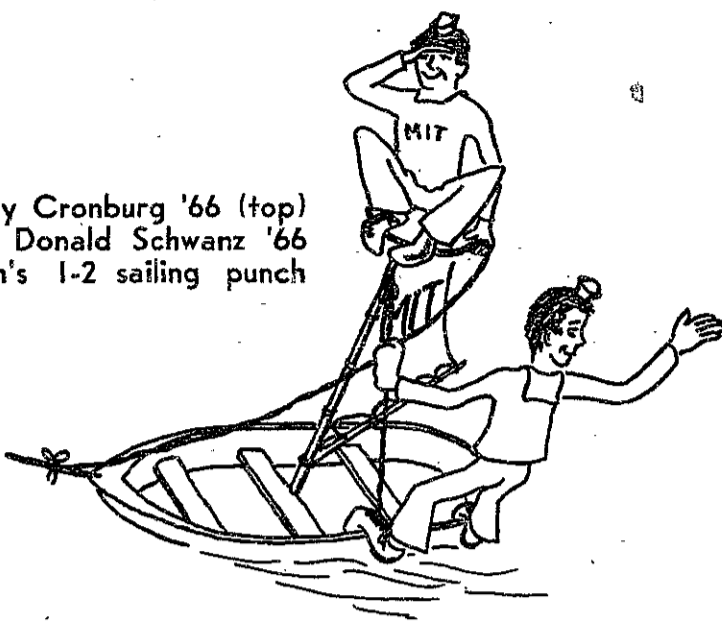
Merchant Marine Academy	231
MIT	223
Coast Guard Academy	198
Princeton	197
Naval Academy	181
Skylar	158
Webb	151
Rutgers	150
Monmouth	140
Marist	119
RPI	74
Columbia	61
WPI	35

Cronberg takes high-point honors

The sailing was split into two divisions. Tech's captain Terry Cronberg skippered in all ten races in the "A" division. With crewing duties being shared by Mike Zuteck and Joe Smullin, Cronberg captured four firsts, three seconds, a third, a fifth, and a sixth. This combination of finishes was good enough to make him high-point skipper for the regatta.

The MIT sailors were not so successful in the "B" division. Chuck Osborne skippered in the first seven races and Joe Smullin took over for the last three. Although Smullin won two of these

Terry Cronburg '66 (top) and Donald Schwanz '66 Tech's 1-2 sailing punch



Fijis take second Betas win IM cross-country

By Larry White

At the fourth annual intramural cross-country meet, held last Saturday at Briggs Field, a quintet of runners from Beta Theta Pi literally ran away from the rest of the competition to win the championship and intramural trophy for distance running.

It was clear, but very cold, as nearly 200 runners from thirty-one teams lined up at the starting point on the track. After the first quarter mile, the fast-starting rabbits faded and the pattern of the race began to emerge. Gregg Heacock '67, of the Betas, took an early lead of about ten yards which he held for the first lap. He then faded gradually and Bob Karman '67 of the Fijis and John Ryder '67, of the Betas, jumped out with Karman, last year's winner, ahead and looking as if he would repeat. Behind these two, who were battling for the individual title, the other members of their teams were fighting it out for the team crown, since the first five runners for each team count.

With less than a half mile to go, Ryder caught Karman and they

ran side by side toward the finish. Suddenly, about 200 yards from the end, Ryder put on a tremendous finishing kick and won, going away by about ten yards with a time of 9:41, nine seconds over the record Karman set last year. Behind him finished Steve Schroeder '67, Tom Gerity '63, Kent Groninger, '63 and Heacock in 5th, 6th, 10th and 18th places. The Fiji's top five included Bob Curd '66 third and Mickey Curd '69 12th.

Team Results:

1—Beta Theta Pi	40
2—Phi Gamma Delta	102
3—Burton A	167
3—Kappa Sigma (tie)	167
5—Phi Kappa Sigma	190
6—Phi Delta Theta	218
7—Baker A	227
8—Sigma Alpha Epsilon	253
9—Burton B	262
10—East Campus	294
11—Lambda Chi Alpha	302
12—Theta Chi	316
13—Phi Beta Epsilon	325
14—Theta Delta Chi	358
15—Phi Mu Delta	368
16—NRSA	385
17—Alpha Epsilon Pi	403
18—Sigma Chi	430
19—Burton C	469
20—Phi Delta Theta B	481

three races, Tech could not make up enough ground to overtake the Merchant Marines.

Only three more regattas remain on MIT's fall sailing schedule. After the Schell Trophy Regatta this weekend at the Coast Guard, there is the Oberg Trophy and Fowle Trophy Regattas, both to be held here on the Charles.

Around the cage

Cheerleaders to be on national TV

By Gerry Banner

The MIT cheerleaders will make their national television debut this Sunday, November 7, when they root for the still winless Boston Patriots in their American Football League game against the Buffalo Bills at Fenway Park. The Patriots have no regular cheerleaders, so they invite a cheering squad from a different Boston area school to each of their home games.

The Tech coeds have been called upon for Sunday's game, which will be televised from coast to coast. Barbara Desmond '67 will captain the Tech girls in their white and red uniforms. Also cheering will be Louise Lentin '68, Sue Downs '68, and Gini Rudd '68, members of this year's squad. Unfortunately, the game will be blacked out in the Boston area, so you must be at Fenway Park at 2 pm to watch the girls cheer.

For all freshmen interested in being cheerleaders for the basketball team, tryouts will begin soon and times will be announced.

Varsity swimming and soccer coach Charlie Batterman has been sidelined until January by a mild heart attack this past week. He is now recuperating at Mt. Auburn Hospital in Cambridge where he will remain for at least the next three weeks. Currently he is not receiving visitors, but he would appreciate some kind words from his many friends and admirers around the institute.

Freshman swimming coach Dave Michaelson has assumed a large part of the varsity coaching. Michaelson is now being assisted by Bill Brody '65, former swim captain and MITAA President, who is working primarily with the freshmen.

Intramural basketball still needs referees. If qualified and interested, sign up on the Dupont Bulletin Board.

The MIT Bridge Club will soon be sponsoring the intramural

team-of-four competition. Teams shall consist of at least four and no more than six players, including alternates, affiliated with a living group, activity, or special interest. All members of the MIT community are eligible for competition.

Applications are being sent out now and must be in by Nov. 22. For further information, contact Jeff Passel, Burton House, Box 1301, dorm-line 9-130 or x3291.

Intramural hockey season to open November 21; special league formed for grad students, staff

The 1965-66 intramural hockey season is scheduled to begin on November 21. This year, there will again be a special league for graduate students, staff, and alumni. This league should have the highest caliber of play due to the relaxed eligibility rules (all graduate students, staff members, and alumni can play providing they own an athletic card).

Harriers lose, tie to Northeastern, Tufts

By Tony Lima

Despite a fine effort, the varsity harriers were downed by Northeastern and tied by Tufts in a triangular meet at Franklin Park last Saturday. Sumner Brown '66, did his usual fine job, staying with Northeastern's Dave Dunsky for the first two miles of the 4.5 mile course and finishing second. Brown's time was 22:49. Northeastern then took four out of the next five places to clinch the meet.

Captain Bob Wesson '66, once again ran a strong second half to bring in the eighth place for the Techmen. Helge Bjaaland '67, took eighteenth place. The final score was Northeastern, 22; MIT 56; and Tufts 56.

The loss and tie dropped the varsity record to 4-4-1.

Varsity Results: 1, Dunsky (NE), 22:32; 2, Brown (MIT), 22:49; 3, Kneeland (NE), 22:58; 4, Baldwin (T), 23:17; 5, Lobban (NE), 23:20; 6, Hoffmann (NE), 23:24; 7, Baker (NE), 23:35; 8, Wesson (MIT), 23:38; 9, Castanza (NE), 23:43; 10, Gilchrist (NE), 23:48; 11, O'Connor (NE), 23:53; 12, Sheehan (NE), 23:56; 13, O'Shaughnessy (NE), 24:11; 14, Johnson (T), 24:11.



Photo by Steve Rife
Intramural runners straddle the fence behind the Briggs Field tennis courts in the IM cross country meet.

The undergraduates will have three divisions to choose from: a major division, a semi-major division, and a minor division. Therefore, any undergraduate, owning skates should find competition on his own level this year. There will be the traditional play-offs in February for the championship and places in the intramural standings.

Last year's champ NRSA along with ZBT and Burton "A" seem to be the powerhouse teams this year. Although rosters were due Monday, anyone who still wishes to enter a team may do so by calling Ben Gikis (X3282) by Friday, Nov. 5.

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Lose on penalty kick

Rugbers fall to Boston Club 3-0

By Tom James

The first team of the MIT Rugby Club was edged out by the Boston Rugby Club 3-0 Saturday afternoon in a very good, evenly matched game. Boston scored its three points on a penalty kick midway in the second half.

Rugby, for those of you who are not familiar with it, is a sort of cross between soccer and football. In what is called a scrum, eight players from each team line up three deep with their arms around one another and push. The ball is thrown neutrally into the middle of this shoving mass of humanity, and the players try to hook it with their feet and push it out back where the rest of the team is waiting to run with it or kick it.

Scrum gives trouble

During Saturday's game MIT seemed to be having quite a bit of trouble getting the ball out of

the scrum; even so, a large part of the first half was played in Boston's territory.

MIT's captain, Tom Van Tienhoven '66, made some excellent runs early in the first half, until on one such long end sweep, he was tackled very hard and his leg was injured; he limped heavily for the remainder of the game, and was never quite as fast as he had been earlier. Two other players making good runs for MIT were newcomers to the first team, Marshall Fisher '65, and Jim Larsen '65.

Next game vs. Dartmouth

Although the Rugby Club has a losing record this season, they have had many close games, and show tremendous spirit against such powerful schools as Harvard, Holy Cross, and Brown. The next game is at Dartmouth on November 13th, and the fall season is rounded out with Tufts here on November 20th.



Photo by Steve Rife

MIT Rugby men (dark jerseys) fight for the ball against the Boston Rugby Club (striped shirts) during a scrum Saturday's game on Briggs Field. In a low-scoring, hard fought game, Boston won 3-0.