**Hansen rejected for nuclear committee**

By William Lessit

A United States Senate committee has rejected the nomination of Professor of Nuclear Engineering Kent Hansen as a Commissioner of the Nuclear Regulatory Commission (NRC). The Senate Committee on Environment and Public Works voted 7 to 4 Monday night to recommend Senate approval of the nomination, rather than follow the recommendation of the standing Senate committee on Nuclear Regulation, to oppose Hansen's nomination because Hansen has shown a "noticeable absence of thought, background and depth on such questions as safety and waste disposal."

Hansen's nomination has aroused controversy throughout the country, and his appointment to the Senate committee on Nuclear Regulation has been expected to have a major role in the Senate's consideration of the nomination.

**MIT '77 deficit small**

By Mark James

MIT came within $126,000 of a balanced budget during fiscal 1977, and planners project balanced budgets or surpluses for the next several years — assuming that tuition continues to increase at the current rate.

Chancellor Paul Gray '54 attributed the deficit to a budget that was increased by $2.6 billion over the previous year, an increase that was projected to occur under a new system, greater-than-expected revenues from the Industrial Liaison Program, $4 million more in gifts than last year — a 20 percent increase and $700,000 more than expected — and $200,000 dollars more of cost reductions than projected.

Gray told The Tech that tuition will probably increase by about seven percent next year: the actual decision will not be made for two months, but budget predictions are based on such a rate.

He noted that the improved budget situation will not slow the rate of tuition increase, because Hansen has been employed as a consultant by several firms involved with nuclear power. The Post reported.

Among those joining Hart in opposition to the Hansen nomination were Democrats Mike Gravel of Alaska and Edmund Muskie of Maine. Senate minority leader Howard Baker (R-Tenn.) voted to confirm Hansen.

Hansen's nomination has aroused controversy throughout the country, and his appointment to the Senate committee on Nuclear Regulation has been expected to have a major role in the Senate's consideration of the nomination.

**MIT exemptions sought to MemDrive parking ban**

By Daniel B. Koenig

Barely a week before a 7-10am ban on Memorial Drive parking is scheduled to be implemented, the MIT Planning Office is busy attempting to prevent the ban from having any effect on students living on campus.

MIT students on campus who have registered their cars in Massachusetts may obtain stickers from Cambridge City Hall that exempt them, as residents, from the ban scheduled to start Oct. 31. Cars registered outside Massachusets are prohibited by state law from being eligible for such stickers.

A survey of graduate students conducted in September by the Planning Office received 389 responses from the 450 questionnaires sent out. Of those who responded, 93 said that they have cars on campus. Of the 93 cars, 59 percent, or 54 vehicles, had out-of-state registrations.

The in-state cars, according to the survey, park on Memorial Drive an average of 53 percent. All of the car owners who responded to the survey put on Memorial Drive an average of 54 percent of the time.

The ban is the result of a June, 1975, Environmental Protection Agency (EPA) regulation under the Boston Transportation 

[Please turn to page 3]
Hansen interviewed

Editor’s note: In early September, William Lasher of The Tech interviewed Professor of Nuclear Engineering Kent Hansen. On Tuesday, the Senate Environment and Public Works Committee voted not to confirm his appointment to the Nuclear Regulatory Commission.

The Tech: I’d like to ask you what you think the role of the Nuclear Regulatory Commission should be with respect to coming up with a national energy program, working with the President’s Science Advisor and the Congress and the President, and with the new department of Energy.

Hansen: First of all, the regulatory commission is an independent agency, and its purpose is to regulate the industry. It does not make policy with regard to national energy programs and the like, rather, it makes certain that the nuclear industry conducts its affairs in such a way that it is not a threat to the health and safety of the general public. That’s its statutory responsibility.

As a practical matter there is no doubt that policy planners would discuss with the regulatory commission certain aspects of the nuclear industry; for example, they might be interested in obtaining up-to-date information on the operation of reactors, or on two reliability, or might be relevant in planning for the expansion of the energy production in the United States. So, within a role of a source of information on technology, it could play a role with regard to the energy demands, and because of its close ties to the nuclear industry, it could obviously play a role in discussing new technology. But other than an advisory role, the Nuclear Regulatory Commission would have nothing to do with national energy policy.

The first nuclear power plant is at an important point in its history because of the debate over the breeder reactor. How important do you think the breeder reactor is to our energy needs?

Hansen: This is a personal opinion now. You’re not asking me what the Nuclear Regulatory Commission thinks?

The Tech: That’s right.

Hansen: I got into hot water at my Senate hearing for expressing my personal opinion. I’ll state it again. Like most people, my view is that we will meet our future energy needs by relying most heavily on coal and nuclear. There are other options in the very distant future, such as fusion and perhaps solar, although I think that will play more of a role in heating food and home climate control rather than in the generation of electricity. But those contraints are 20 years off, in my opinion, at the least, and with respect to our need between now and the end of the century, I think we must rely increasingly on coal and nuclear.

The fact is, there is enough coal and energy technology that could proceed without the breeder to meet our energy needs for the next 25 years, and, assuming some alternatives come in, we could wind down the nuclear industry slowly so that by the year 2050 or so it would be over. That assumes that alternative technologies will become available. Now how does a policy planner deal with the situation in which those alternatives do not become available? Well, he has to look for things we have today which can extend our energy needs into the distant future. And there, it seems to me that the breeder is the only possible contributor that we can see today. Obviously I’m talking about the nuclear contribution. Certainly coal will go on for a long, long time. I don’t know that we can rely entirely on coal. The reason is the greenhouse effect, and that health hazards of coal, particularly the products of coal production. Now incidentally, all of those may be resolvable. But I’m not talking about what role nuclear could play in the long range fuel of the breeder reactor. Today, the breeder is not a commercial vehicle, but it is the demonstration stage. In other words, there is an operating breeder on the electric grid in France. I believe there’s one in the Soviet Union, although it’s hard to get much information. (And) there’s one in Great Britain. The United States has built and operated small breeder reactors. But there’s no question that the technology exists. There’s a great deal to be done.

(Private remarks to page 6)
news roundup

World

Kidnap victim murdered — Hans-Martin Schleyer, the kidnapped German industrialist was found by the French police in the trunk of a car abandoned in the city of Moulins with his throat cut. The police had earlier received a phone call stating that Schleyer had been killed because of the death of the terrorist hijackers during the German Army's commando raid and the suicide of the three German terrorists whose release from jail was demanded by both the hijackers and by Schleyer's kidnappers. The caller also told police where to find the body.

Nation

Senate votes retirement age hike — By a vote of 87 to 6 the Senate passed the Age Discrimination in Employment Act which would raise the mandatory retirement age from 65 to 70. In contrast to the House bill, however, the Senate measure exempts public employers who have income of more than 520,000 a year, and does not eliminate all mandatory retirement for federal employees. Difficulties are expected when the House and Senate go into conference to try to combine the two bills.

Nebraska plane hijacked — Negotiations are continuing with the hijacker of a Frontier Airlines plane, who is holding 11 male passengers, the pilot and co-pilot hostage in the Atlanta airport. Thomas Hannon took over the plane in Nebraska, landed in Kansas city to release 18 passengers, and then flew on to Atlanta. He demanded a ransom of $1 million, two machine guns and the release of his lover George David Stuart, now being held in an Atlanta jail on bank robbery charges. Hannon is out on bond for the same crime.

Local

Pinball racketeers arrested — Through the efforts of concerned citizens, Howard Winter and Salvatore Sperlinger, local pins, who sold organized crime in Somerville, have been arrested for trying to force Somerville businesses to use their pinball machines. Those machines were illegal until this summer when the city council repealed the existing law by a 9 to 2 vote. The Middlesex County Grand Jury, which handed down the indictments for Winter and Sperlinger, has already subpoenaed the pinball machines. These machines were illegal until this summer when the city council repealed the existing law by a 9 to 2 vote.

Questions?

If you have an unwanted pregnancy .... help is as close as your phone

If you're troubled and uncertain .... talk with a telephone counselor at Preterm. She can help you. She can answer your questions about pregnancy and birth control. She can tell you about the personal care you receive at Preterm. She can help you. She can answer your questions about pregnancy and birth control. She can tell you about the personal care you receive at Preterm.

Our Preterm staff includes licensed physicians, qualified nurses and specially trained counselors. We offer first trimester abortion at a moderate fee for all income levels. Our counseling services and the contraceptive method of your choice .... private counseling and follow up visit.

Talk with a Preterm telephone counselor. You can speak to her in complete confidence .... and she can help.

Call 738-6210

A non-profit licensed medical facility

1842 Beacon Street, Brookline, Mass. (617) 738-6210

Little white lies

Parking solution sought

(Continued from page 1)

Control Plan. The regulation is intended, according to Barbara Halakine of the EPA's Air Programs Office, to reduce parking for commuters in Boston and Cambridge. The reduction in available urban parking space would discourage commuters from using their automobiles, turning them to mass transit or carpooling.

Boston and Cambridge began to comply with the regulation by the fall of 1975, completely enforcing the 7:00am to 9:00am in Boston) restrictions on parking for non-residents well over a year ago. The Metropolitan District Commission (MDC), Halakine said, has been slower in complying because it alone was required to enforce the ban on 100 percent of its streets.

According to Reynolds Thompson '68 of the Planning Office, MIT is now "trying to work out something with the MDC which will allow students to continue parking on Memorial Drive." He noted that it will probably be some sort of sticker that would be issued by the Campus Police and recognized by the MDC, which has sole jurisdiction over the Drive.

Thompson said that while he could not be sure of having a solution by Oct. 31, he is "pretty confident" that the MDC will be willing to have bumper stickers. "For the first week or so" until that solution is found. Should the ban actually affect students, those with MIT parking stickers generally for Westgate Lot would be forced to crowd into what spaces are available.

However, the Institute gives out 1.4 permits for each space that actually has, according to a 1974 estimate. Moreover, not all students with automobiles on campus are given parking permits. Even in Ashdaw House, whose graduate students receive high priority for stickers, only 54 of the 144 students who applied in September got permits. In addition, private developers have even a chance of obtaining permits. The situation has been worsening since 1973 when, as an aside to the Orr Street Parking Ban, MIT was told by the EPA to reduce its total number of parking spaces by 25 percent.

According to the Cambridge Traffic Office, some 30,000 resident sticker holders have been issued since the city began enforcing the MDC ban in 1975, and about "five to ten percent" have been given to students who live in Cambridge.

33 unique homes created from unconventional structures

CONVERTED INTO HOUSES

By Charles A. Fracchia with over 200 photos by Jeremiah G. Brandt

Viking Penguin

Paperback $6.95

The person who transforms an environment once utilized as a factory, barn, water tower or other nondwelling use into a home is opting for an unusual living experience. A flight from increasing conformity, artificiality, anonymous structures and shoddy workmanship that affect modern society. Converted into Houses will be an inspiration to those who would like to create similar imaginative designs in living because of their interest in preserving the old

how sure are we that outer space is unhabited?

Celestial Passengers shows us — with evidence from astronomers and through firsthand experience of policeman, pilots, and other reliable witnesses — that there are things in space which we don't understand and can't explain. The book also presents up-to-date reports on the Viking Mars Mission and Earth's plans for space travel and living

PENGUIN Original

$2.95
Lack of toleration: form of censorship?

by William Lasser

There have been several recent events in the past few months that the MIT administration has indulged in or has threatened to indulge in censorship of speech. The MIT's official viewpoint of censorship is clearly stated in the MIT Handbook: "The voluntary non-interference with the voluntary speech and action of others respecting the administration, is the main force behind the potential curtailment of what are thought to be natural or at least Constitutional rights."

The right to freespeech and a free and independent press, on campus and elsewhere, implies a high level of tolerance within the community in minority viewpoints, however distasteful. These rights are not absolute. No one has the right to protect actions which violate another's rights; nor do they justify verbal assault directed against another member of the community.

But tolerance cannot exist when the expression of political, religious or moral views is censored or even discouraged; nor can freedom exist when the views which are voiced are regulated by force, or even by the threat of force.

The most recent occurrence indicative of the apparent growth of intolerance at MIT was the scuffle between the Arab Club and Hillel concerning a lecture that was to have been given by Palestine Liberation Organization United Nations Representative Staffan Alhout Friday evening. The talk was cancelled for reasons unrelated to the protest generated by the Jewish community.

A statement by Hillel, published in last week's issue, asserted that the organization did not object to the PLO's representative speaking, "but it is a different matter when he starts talking about overthrowing Israel." Alhout had been scheduled to speak in 54-100, where he could address only those interested in hearing him.

Hillel should be congratulated for responding to what they saw as a potential attempt to silence their own right of protest and assembly by inveigling their own right of speech and assembly and not by calling for administration action to prohibit Alhout from speaking.

Nonetheless, their statement reflects a growing tendency on the part of members of the community to assert that minority viewpoints should not be expressed at MIT. The Arab Club has since attacked Hillel for what it considered unacceptably pro-Israel views.

The Alhout situation cannot be compared to the forced and justified storm of protest that occurred earlier this year when members of the American Nazi Party attempted to organize a march through the streets of Clio. In that case, personal injury to survivors of the Holocaust and their families would have resulted from an open-air march which would have been difficult to ignore by those who objected and attempted to go about their daily business.

The difference between the Clio massacre and the Alhout speech is that the former was not only of a certain infamy, but the latter, explicitly, has no repugnant views in a manner that might be deemed offensive. The Alhout situation should not be compared to the Clio situation. The Alhout situation should not be compared to the Clio situation.

As Jefferson distinguished between belief and action, so too should the Arab Club distinguish between belief and action. The expression of repugnant views in a manner that is tantamount to calling for administration action is an attempt to silence, not one only of degree. The expression of repugnant views in a manner that is tantamount to calling for administration action is an attempt to silence, not one only of degree.

The administration has indulged in or has threatened to indulge in censorship of student activity in its attempts to suppress the Alhout lecture. The expressed desire of the administration is to prevent Alhout from speaking. Calling for administration action to prohibit Alhout from speaking. Calling for administration action to prohibit Alhout from speaking. Calling for administration action to prohibit Alhout from speaking. Calling for administration action to prohibit Alhout from speaking. Calling for administration action to prohibit Alhout from speaking. Calling for administration action to prohibit Alhout from speaking.
SCEP taking survey

Editor's Note: The Tech received this open letter to the MIT Community.
To the Editor,
Recently, there has been much debate and controversy over two important academic issues: drop and grade marking. The Student Committee on Educational Policy (SCEP) will be circulating a survey on these important issues during the following weeks...

The results of this survey will be shown to the faculty, the CEP, and other interested parties. We would like to appeal to the students to answer the survey so that we may have an accurate measure of student opinion to present to the faculty.

Through this survey, we hope to present viable alternatives backed by student opinion to the CEP and the faculty. Only with your cooperation can we get policies which will be beneficial to both students and faculty.

Steven Bosen '80
SCEP Secretary

Academic pressures may cause suicides

To the Editor,
The tragic death of Marc-Emile Dugas underscores a basic problem at the Institute: the extremely high pressure, and poor quality of life felt by most MIT students at some time during their academic existence. It seems to me, that most rational administrators, faced with this problem, would try to alleviate it rather than aggravate it. The recent suggestions for grade deflation, a shortened drop date, and only one term of freshman pass/fail grades will only serve to increase pressures at the Institute, and other interested parties. We would like to appeal to the students to answer the survey so that we may have an accurate measure of student opinion to present to the faculty.

Through this survey we hope to present viable alternatives backed by student opinion to the CEP and the faculty. Only with your cooperation can we get policies which will be beneficial to both students and faculty.

Peter S. DeForest '79
Oct. 18, 1977

CMAT

A new course is now available for persons with strong math abilities to prepare for the Graduate Management Aptitude Test at an accelerated rate. This course is designed for students from MIT and is not available anywhere else. The focus of this course will be on advanced methods for solving 300 GMAT math problems, as well as on business judgment and verbal skills. Class times will be 9:00 AM to 5:30 PM, Saturday and Sunday, Oct. 29 & 30. Class size is limited to 15 persons. If you are headed for an MBA this is too important to miss. Decide now. We may not be able to guarantee reservations after October 22. Call or write:

Test Prep Services
575 Boylston St.
Boston 266-5082

Stanford MBA: COMING TO CAMPUS
FRIDAY, OCTOBER 28

A representative of the Stanford Graduate School of Business will be on campus to discuss with interested students the exceptional educational opportunity of the Stanford MBA Program. Appointment may be made through The Career Planning and Placement Office.

The Stanford MBA Program is a two-year general management course of studies designed for men and women who wish to develop management skills to meet the broad responsibilities required in both the private and public sectors today and in the future.

THE STANFORD UNIVERSITY GRADUATE SCHOOL OF BUSINESS
Stanford, California 94305

STUDENTS
Call 542-5500
for Desk from $25.00
Chairs from $5.00
Steel file drawers $5.00
or $4.50
and assorted
school supplies
furniture, printing

AMSTACO INC
303 Franklin Street
Boston, Mass. 02110

Still Room on the Ground Floor for Computer Careers at Amdahl

Computer professionals are aware that today's most advanced large-system technology was developed by a company that, not too long ago, was virtually unknown. It was during late 1975—when Amdahl delivered its first multimillion-dollar MV/9 system following a 4-year, $50,000,000 effort—that the company first attracted widespread industry attention. Now, Amdahl is the most talked about among computer professionals in the industry: a compact group of highly talented high technologists producing the world's highest performing general purpose computers, the MV, W, and V/7. Over a quarter billion dollars worth of Amdahl systems is now working worldwide in every industry sector using large-scale computers. The original design team is still virtually intact and working on future systems. Although we are growing at an extremely rapid pace, we are committed to retaining the same creative environment that has yielded the V, V/S, V/6 and V/7. We are small by contrast: computer industry comparisons. We are still friendly. We still enjoy attacking tough tasks because we think it's fun. And we still reward personal efforts with personal recognition.

We think Amdahl is a great place to work. There's still room on the ground floor for you! So when you buy a car, apartment, or any insurance from us, there's no service charge added!

And we'll only sell you what you need.

W.T. Phelan & Co.
38 Franklin St.
Andover, Massachusetts

COLUMBIA UNIVERSITY
Graduate School of Business
MBA
PHD

Christine Kelly will be on campus October 24, 1977 to speak with students from all disciplines who are interested in the PhD and MBA degree programs. There are ten concentrations offered in the Business School, plus joint degree programs with the schools of Law, Journalism, Engineering, Public Health, Architecture, International Affairs, Social Work, and Teachers College. For further details, please contact the Placement Bureau.

STUDENTS
Call 542-5500
for Desk from $25.00
Chairs from $5.00
Steel file drawers $5.00
or $4.50
and assorted
school supplies
furniture, printing

AMSTACO INC
303 Franklin Street
Boston, Mass. 02109

ON-CAMPUS INTERVIEWS:
Tuesday, October 25

We are coming to campus to fill positions in hardware, firmware and hardware-related software. We are specifically interviewing for firmware logic and firmware designers and hardware diagnostic engineers, design automation programmers and control programmers for our mini-based console.
Logs enjoy performing before MIT audiences

By Daniel Nathan

Daniel Nathan is a member of the Logarhythms.

When the Logarhythms escape through music and song, they can be sure that mass will follow to hear their a cappella close-harmony singing. This is their only characteristic, plus a "barbershop," but their performances go well beyond this scope of art.

The Logs are a group of male singers which chooses its members through auditions. The Logs present at least two large free concerts on campus each year in addition to the many impromptu concerts they often give around the Institute.

The Logarithms are very concerned with MIT tradition, and they view part of their function to act as a link with the school's past. The group has an active history, dating back to 1949 when it formed as a splinter of the now-defunct Glee Club. Since then there have been many records, concerts and tours, including visits to Washington DC, Philadelphia, New York, and Florida within the last two years. A two-week tour of California is planned for this year.

At MIT the Logs become a fixture at alumni and corporation gatherings, and they enjoy their rehearsals, and all of them love music.

MIT will have its first chance this year to hear the Logs when they present the first annual Greater Boston Invitational Songfest on the Kresge stage next Friday night, October 28. Other groups from local Boston schools will be joining them. Remember, the Logs will be committed to giving you a good time.

Short Eyes, a powerful depiction of prison life

By Bill EASTMAN

Short Eyes, a new film written and directed by Miguel Pinero, is an explosive, touching, and very real picture of prison life. The movie was shot entirely on location in "The Tombs," the Manhattan House of Detention, and features a cast of professional actors, ex-convicts and street people.

As Young's second feature film, Short Eyes is a powerful follow-up to his Venice Film Festival winner, Nothing But a Man. Young has won numerous awards as a documentary film maker, and has made many Emmy winning television specials. His fictional features normally tend to incorporate a bit of documentary technique, and Short Eyes is no exception.

The screenplay is based on Pinero's Obie Award-winning play, and draws upon his own experience as an inmate at Sing Sing. It stars Bruce Davidson as Clark Davis, a part mixture of strength and weakness.

The story centers around the reaction on a prison floor to the presence of Davis, a new inmate. He is charged with child molestation, or "short eyes," the one sin the other prisoners find unforgivable. They act against Davis, a pale, weak figure who is obviously fought by deep psychological problems. He appears to be a deeply damaged man. The high tension of the drama is occasionally offset with humor, adding a bit of light to an otherwise dark and brutal story. One such scene is a prison scene with humor. A group of inmates drunk and singing. A crew is hooded around a card. The story is packed with humor, adding a bit of light to an otherwise dark and brutal story. One such scene is a prison scene with humor. A group of inmates drunk and singing. It's a crowd, and they專vone is huddled around a card- board box, cheering and yelling while a captive roaches race each other. After one hour, the audience get loose and everyone scrambles to get on top of the table, ter- minal.

As a whole Short Eyes is a provocative drama, dealing with such topics as drag, homosexuality, racism, racism, rape, and violence in prisons in a shockingly violent manner.

The Logarhythms are very concerned with MIT tradition, and they view part of their function to act as a link with the school's past. The group has an active history, dating back to 1949 when it formed as a splinter of the now-defunct Glee Club. Since then there have been many records, concerts and tours, including visits to Washington DC, Philadelphia, New York, and Florida within the last two years. A two-week tour of California is planned for this year.

At MIT the Logs become a fixture at alumni and corporation gatherings, and they enjoy their rehearsals, and all of them love music.

MIT will have its first chance this year to hear the Logs when they present the first annual Greater Boston Invitational Songfest on the Kresge stage next Friday night, October 28. Other groups from local Boston schools will be joining them. Remember, the Logs will be committed to giving you a good time.

The Tech's movie rating scale:

-3 absolutely pitiful
-2 good-fai
-1 fair
+0 indifferent
+1 good
+2 excellent
+3 near perfect
+4 great
+5 outstanding
+6 classic
+7 genius
+8 nirvana
+9 paradise
+10 heaven

Diane Keaton shines in a confusing Goodbar

Diane Keaton's portrayal of Terry Dunn is most definitely of Academy-award caliber. A teacher of hearing-impaired children by day, Terry is transformed into a bar-hopping cocaine addict trying to pick up girls at night. Her search for love and sex leads her to cross paths with other women in similar situations. Terrified by a prison sentence, Terry Dunn is put on trial for murder, even though she is innocent of any crime. However, her love for her children is her downfall, as she is found guilty and sentenced to prison. Despite her innocent pleas, Terry Dunn is sent to prison, where she is mistreated by other inmates.

Diane Keaton's performance is outstanding, and she shines in a confusing Goodbar. Her portrayal is both captivating and sad, as she struggles to cope with her situation. Her chemistry with other cast members is also impressive, particularly with William Atherton, who plays her co-defendant.

The film is a powerful depiction of prison life and the struggles of those who are incarcerated. It is a moving and thought-provoking piece of cinema, and Diane Keaton's performance is the highlight of the film.
Titanic story fictitious in new Cussler book

It continued from page 6. rivolve the technical aspects of raising the ship from nearly three miles underwater. The characters are not completely developed by Cussler, but this is to be expected in the type of fast-paced thriller. Raise the Titanic could have been lightened by eliminating many of the non-essential subplots, but the book does not suffer at all from their being included.

Cussler keeps a good flow of constant activity among the several different story lines. No part of this book drags, everything comes to a head in the heart-stopping climax, which features a Russian assault on the raised-but-still-floating Titanic during the middle of a hurricane. Raise the Titanic is an interesting and readable book. It makes no statements other than introducing the hypothesis that the Titanic could someday possibly be raised from the bottom of the Atlantic.

Mr. Paul Hoffman

MOVIES

Abridge, and Monty Python and the Holy Grail is one of the funniest films I've ever seen. Silly Cinema 231, Friday.

Text Driver and Mean Streets are two films by Martin Scorsese starring Robert DeNiro. Movies about life as it really is in the streets. Both are very heavy. Cinema 333 and Harvard Square, Saturday, midnight.

I Hard Day's Night and Let It Be - Both are Beatles movies. I Hard Day's Night is a superb statement on the beginning, of Beatlemania, and the theory of 'Round, Get Back - cinema center, which is a role being. Harvard Square, Saturday, midnight.

A History of the Beatles - Two hours of what the title says. The Music Hall has good acoustics, so it may be worth a try. Boston Music Hall, Friday, Saturday.

Love - An arts film about how a child deals with the loss of her parents. Mansfield reviews for this one, but Boston reviewers are schmoozy. Ocean Waves.

Short Eyes - Based on the play by Miguelmenu about life in the prisons. Charles and Savoy.

Black and White on Color - A drama about African-Americans before WWII. It won the '76 Oscar for Best Foreign Film (1975). Kentuck, Fred Moore - The original stage production was phenomenally funny. The movie loses some of the momentum, but is still an interesting alternative to Monty Python. Roche Hall.

Oh, Graf! - George Burns plays a German. Jack Klugmann plays a super-efficient manager. God comes back to earth just to tell him he's a great Chef. Lincoln - Richard, Novales plays America's heartthrob in this quasi-biography. Apparently pretty insensitive to plays and women. Chen.

Johnny - No review, last week was based on an interview. I was at LA, where the stars were wonderful. I tend to say that the stars here are terrible.

MUSIC

ON THE TOWN - (Fridays University, Sunday, Saturdays 5 pm) and (every day) A good-sized folk music that is not faddish.

MINEFIELD - (Harvard Square, Hunter, Friday). Also a fine folk musician Jerry is known more in country circles. He plays excellent guitar. His appearances in the group Adead at the Wheel.

AROUND MIT

P&K Stage (30 Beacon St. Saturday) is emptied a borrowed Halloween party. It was excellent that crowded into years ago.

Couplets - free with MIT or Wellesley ID's.

Love's Labours Lost - (Coda de Puerto Rico, Friday, Saturday, Saturday, Saturday). Shakespeare Ensemble's production of the classic comedy. The Ensemble is always energetic, active and well-directed.

A - (Harvard, MIT Film Society) and 9pm in Room 6-120. Fridays 3pm - 5pm - Harvard, Friday. 5pm - Math. Cheap beer, dancing and showing usually meant of the 'middle deeper' show up.

Monty Python Meets Beyond the Feature - (Mazza, 3 and 2pm for MIT and Wellesley folks. 8 and 10 for all college ID's. I think people are that he really like.

Monty Python (Jokes and limericks) will probably make all four shows. Monday, June 6 - Charlie Wilhelm's superb back at technology. It is extremely appropriate for MIT audiences and 9pm in Room 26-490, Saturday.

By Night - (Sidewalk) - Hitchcock's best piece of cinematography is this film. The movie is witty and poignant, and not overly scary. 7, 9, and 9pm in Room 26-490, Sunday.

BEST BETS

Love's Labours Lost and ENS próprio, all weekends.
Mack calls for courses to bridge cultural gaps

(Continued from page 1)
relations, I hereby inform the Committee that I wish to withdraw my complaint against the Technology Community Association and further that we should not be licensed unless they speak for the BSU.

This is not true, he said; "only executives of the BSU can make statements" for the group.

Since 1795 Cuervo Gold has been made in only one way. And in only one place.

In Tequila. Where the pampered Blue Maguey plant still flourishes amidst the rich, volcanic soil and perfect climate as it has since 1795.

Where over 182 years of tradition is still a way of life. This is what makes Cuervo Gold special. Versatile and adaptable. Neat, on the rocks, with a splash of soda, in a perfect Swirise or Margarita, Cuervo Gold will bring you back to a time when quality ruled the world.

Cuervo. The Gold standard since 1795.
Blood drive chairman hopeful

By David R. Kaez

A Tech Yard had thought.

"Life is a deal.
I do nothing but study this crud.
It's too much for me, you know.
and now he's content.
For he has donated a pint of his blood.

---

The Tech, circa 1975

Blood Drive chairman Lucy Everett '78 is optimistic about the turnout for this week's blood drive (increased cooperation from the Personnel Relations office as well as an IFC challenge to the Dormitory System should ensure a strong drive).

The coordinators of this fall's MIT blood drive are hopeful that the drive will be the best in over four and a half years to collect blood.

The drive's chairman is Lucy Everett '78 of the Technology Community Association, the group that sponsors drives on campus throughout the year in conjunction with the Technology Matrons and the Red Cross.

Everett told The Tech, amidst the pressure of pre-drive preparation, that increased cooperation from Personnel Relations office, this fall's drive should put a better turnout from faculty, staff and other employees.

A higher turnout is also expected from students, particularly dormitory residents, due to a challenge issued by the Intramural Conference (IGC) to "the members of the dormitory system...to exceed the amount in (absolute number of pints) of blood donated by the fraternity members during the upcoming blood drive."

In previous drives the fraternity system has consistently outdrawn the dormitories, even though more students live in dorms than in frats and there has been no direct competition between them.

Competitions for highest donor percentage are held among dormitory living groups and among fraternities, however. Last spring, when a total of 1,595 pints were collected, Theta Chi and Phi Delta Theta each had 100 percent participation.

Among the dorms, Concorde 4 led Corner 3 and French House for the traditional kugs of beer.

Everett emphasized that students and others are encouraged to make appointments in advance, so that the Red Cross might more easily estimate the number of nurses to provide.
Design contest challenges profs & students

By Gordon Haff

The annual contest in 2.70, Introduction to Design, is once again approaching. This year's contest is called "Thing of the Mountain." The object is to design and build a device which wins a series of contests in each of which it must "outclimb" an opponent device on a specified sand mountain.

The 2.70 design contest was first conceived of in 1975 by the present head of the Mechanical Engineering Department, Professor Herbert Richardson, who taught the course that year. He gave the students a "creativity kit" and told them to make something useful. However, according to Professor Woodie Flowers who assisted as a graduate student that year and has been teaching the course himself since 1974, "the students spent so much time figuring out what to do that they got very little done."

In 1975, a more rigidly structured contest was devised. It consisted of building a device to race the bottom of a sloped wooden ramp in exactly three minutes. The winning entry's distance was off by only half of one percent of the length of the ramp. Flowers said that there are now sixty students enrolled in the class today that a three-minute time for such contestants would be unfeasible.

Composing the annual project is a long, drawn-out procedure. Flowers and the nine other faculty members involved in the course this fall started discussing possibilities for the contest about eight months ago. They discuss such factors as feasibility and how a particular contest will allow a variety of different designs. As the summer wanes, and until after the term begins, they make minor rule alterations which, while insignificant to the contest as a whole, might be crucial to an individual's design.

The materials in the "kit" front which the project must be built are varied and, in many cases, rather unique. Flowers said that the staff "tries to provide materials which allow the most reasonable solutions, materials which can be made into wheels, axles, etc."

Sometimes the contest is shaped by kit materials. This year, through Dr. Richard Chen, one of Dr. Edward Land's assistants and a former member of the MIT staff, the Polaroid Corporation donated motors from their SX-70 camera to be used as power sources for the "Thing." The motors were also donated to Princeton which is running a similar contest this year.

Flowers considers the project to be the most important part of any design course. He said, "I regard the first project in 2.70 as a microcosm of the engineering design process. The student is forced to do the best he can in a short amount of time using limited resources. He is then evaluated in a very real manner."

He added that "grading doesn't follow how well one does in the contest, only how much work he puts into it."

Since MIT started the contest seven years ago, the idea has been picked up by some schools. One film was made of 2.70's "Tugger" contest last year and, according to Flowers, many schools have any courses with a significant amount of physical design work.

Corey Chaplin '79 prepares his "thing" for next Tuesday's "Thing of the Mountain Contest" elimination round. The final competition will be held Thursday at noon in Room 26-100 after seeing the film expressed an interest in developing a similar program. However, he added that he did not know of any schools which have any courses with a significant amount of physical design work.

Your father's going to be shocked when he hears about this.

Can you help it if the things they do in Harvard Square are inconceivable in Kansas City?

After all, if Cambridge Savings will actually pay you to open a checking account, why not take advantage of it. Even if the folks back home think it sounds crazy.

Open a Cambridge Savings NOW account. The checking account that pays you interest on your checking balance. It may startle 'em a bit back in Stillwater, but it will be good for both of you.

Harvard Square, Kendall Square, Porter Square, Shopping Center, Belmont Center.

Cambridge SavingsBank

864-8700 Member FDIC
Water polo sunk at Brown

By Gordon Haff

Last weekend the MIT varsity water polo team went to Brown to face New Mexico State and Loyola (Chicago), and Indiana. MIT lost by the scores of 13-0, 19-4, and 12-2 respectively.

Even though they are all successful school teams and Loyola (Chicago) was ranked seventh in the country in NCAA Division I last year, Coach Benedick didn't see this as a excuse for the team's performance. He said that, as usual, against Brown the weekend before the team did not play up to its ability. He also remarked that "all the teams were very, very experienced and we backed off on them."

MIT took thirteen people down to Brown for the games including the two goalies, Pete Griffith '79 and Sherman Elspas '80. While less than pleased with the rest of the squad, Coach Benedick was happy with his goalies. "Pete was spectacular as usual and Sherman played two of his best games ever. He has grown a lot in effort and game sense."

Despite the results from the three games, Benedick is, as a whole, content with the way the team has progressed. He noted a desire to win and put in the effort as well as a growth of individual skills. The primary thing which the squad still needs to work on, according to Benedick, is second effort, looking for the ball and playing aggressively to get it.

Benedick said that the games were great practice for the team. As team captain Dick Hense '77 remarked, "practice seemed like child's play compared to last weekend's games."

The MIT Water Polo Tournament is this coming weekend. MIT will play UMass, who they beat earlier in the season, and perennial rival Harvard. While Harvard probably does not have as good a team as Yale, whom MIT defeated two weeks ago, they will probably be psyched up for facing MIT. It promises to be a good game.

Miami 53, Seattle 0 — After their hard-fought victory over Tampa Bay, the Seahawks will be totally humiliated by the over-improving Dolphins.

Washington 30, New York Giants 17 — This time, they're playing in Washington. This time the Giants won't win in the last three seconds.

San Diego 23, Kansas City 14 — The Chargers are still hot, and will beat a Chiefs team that can be stubborn even though they have yet to win.

Los Angeles 13, Minnesota 9 — Get out the No-Dose. After a string of exciting early Monday night games, this one will be an even better soporific than Johnny Carson.

Redskins to gain revenge

(Continued from page 12)

Denver 23, Cincinnati 21 — The Browns won't let their breathing of Oakland go to their heads too much, and will manage to hold off the surprisingly superb Eagles.

Tampa Bay 7, Green Bay 6 — In the Bay Bowl the Tampa squad will cut their earlier win with the Packers' expense. Poor Bart Starke has to be the disgraced hero, in keeping the Buccaneers first victim.

Baltimore 24, New England 25 — The Patriots are going to pound the real into the Celts, but a last minute offensive explosion will keep Baltimore undefeated.

New Orleans 27, New Orleans 19 — The only hope the Saints would have to win this game would be if it were being played before a symphony orchestra.

媭 Never Looked So Good

293 Pershing St., Boston 16, Mass.

Cryodynamics #2

The moving of objects without heat is called a"heat engine." A heat engine is a device that uses energy from one source, such as the sun, and converts it into another type of energy, such as electricity. The most common type of heat engine is the internal combustion engine, which uses the heat of combustion to drive a piston, which in turn drives a crankshaft.

The efficiency of a heat engine is determined by the difference between the temperature of the hot source and the temperature of the cold source. The higher the temperature difference, the more efficient the engine.

The efficiency of a heat engine is also determined by the Carnot efficiency, which is the maximum efficiency that a heat engine can achieve at a given temperature difference. The Carnot efficiency is given by the formula:

\[
\eta = 1 - \frac{T_c}{T_h}
\]

Where:

- \(\eta\) is the efficiency of the heat engine.
- \(T_c\) is the temperature of the cold source.
- \(T_h\) is the temperature of the hot source.

Entry forms for intramural hockey are due at 3pm today. Out of town or out of state teams must include on the team roster. Team entries will be accepted from any group having a minimum of five players. Contact Phil Sloan, athletic director, at 247-7775 for more information.

Last week's

<table>
<thead>
<tr>
<th>W-L-T</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-0-0</td>
<td>16</td>
</tr>
<tr>
<td>1-1-0</td>
<td>9</td>
</tr>
<tr>
<td>0-3-0</td>
<td>2</td>
</tr>
<tr>
<td>0-1-0</td>
<td>3</td>
</tr>
<tr>
<td>2-0-0</td>
<td>10</td>
</tr>
<tr>
<td>1-2-0</td>
<td>8</td>
</tr>
<tr>
<td>1-0-0</td>
<td>2</td>
</tr>
<tr>
<td>2-0-0</td>
<td>10</td>
</tr>
<tr>
<td>1-1-0</td>
<td>20</td>
</tr>
</tbody>
</table>

At 3pm today hockey is due. Get yours to Phil Sloan, athletic director, at 247-7775.

WHEN DO ENGLISH MAJORS SAY BUDWEISER?

DO ENGLISH MAJORS SAY BUDWEISER?

DO ENGLISH MAJORS SAY BUDWEISER?

DO ENGLISH MAJORS SAY BUDWEISER?

DO ENGLISH MAJORS SAY BUDWEISER?

DO ENGLISH MAJORS SAY BUDWEISER?

DO ENGLISH MAJORS SAY BUDWEISER?

DO ENGLISH MAJORS SAY BUDWEISER?

DO ENGLISH MAJORS SAY BUDWEISER?

DO ENGLISH MAJORS SAY BUDWEISER?

DO ENGLISH MAJORS SAY BUDWEISER?
The varsity sailing team finished a heartbreakingly third in the New England Team Racing Championships held last weekend at MIT. Unlike standard sailing competition, the Team Racing Championships pit two teams from one college against each other in a series of races starting from a central point.

The Boston College team finished with a record of 7-2 to finish third at MIT. This is a big improvement over last year's 4-4 record. The BC team's performance was helped by their new coach, who has been working with the team throughout the season. The Boston College team is hoping to qualify for the National Championships in two weeks.

The MIT varsity sailing team finished a close second to Boston College, with a record of 7-2. The MIT team was led by Mark Marinen, who is one of the team's most experienced sailors.

Sailing in the McMillan Cup at Boston University, the MIT team finished third, with a record of 5-4. The team was led by Bill Uhle, who is one of the team's most experienced sailors.

The varsity team will host the Greater Boston on Saturday and the Smith Trophy on Sunday, October 22 and 23. The Smith Trophy has an entry list of 21 college teams from across the country. The McMillan Cup is collegiate sailing's oldest competition, dating back to the early 1900s.

The team's women's team was sixth in a field of twelve colleges at the Intercollegiate Regatta held at Yale. Strong winds and high seas worked against the lightweight team. Despite the difficulties of extreme conditions and strong boats, the women's team was in the battle for fourth place until the last race. The freshmen, in a regatta at Tufts, finished second to the host Tufts team in a field of seven teams. Skipper Dave Kutler, with crew Keith Rubinstein, had strong performances in the tough 'A' Division. In preparation for the New England Fall Championships in two weeks, the freshman team will represent MIT in two varsity regattas this weekend at the Coast Guard Academy and at home.

The MIT women's rugby team will play their first two games against the women's rugby teams from Portland and Brown, the MIT Women's Rugby Club fought a 4-4 tie with Mac Donald College from Montreal last Saturday. Mac Donald drew first blood as they caught the MIT backs off guard and scored a try out to the wing for the first score of the game. The conversion attempt failed, but the Blues, who marched downfield after the next kickoff in a series of plays that put them in scoring position on their own five yard line. Scrum half Ian Hamond made a superb performance against Brown the week before, and in this game, he was able to control the ball from the scrum and crashed through MacDonald’s defenders for the only Tech score of the game. Tech played most of the second half within MacDonald’s 25-yard line, but the winning score the Beavers were looking for eluded them yet one more time. Mac Donald’s forwards are excellent during a series of plays that held Tech’s sport, and their own goal line as the last minutes of the score.

The Beavers’ next game pits them against a strong women’s team from Concord, New Hampshire on October 9. Game time is at noon on the rugby pitch at the Franklin State, away, tomorrow at 12:00pm.

By Michael Taviss
This year's women's field hockey team joins the ranks of MIT's varsity sports. Although the team needs much more experience, they are improving quickly, and should be tough opponents within a short time.

The Engineers are made up of last year's team. For some new freshmen players. They have only twelve players, which is just one more that is necessary to play, but most of these are freshmen in some cases, so next year's team will have a strong backbone to build on. Without even enough players for a scrimmage, experience has to come in actual games, which can be costly.

There are five players on the team who have never played before. The Engineers have a relatively good forward line which just needs practice to get into shape. The defense is very weak, though, and in the game against Brown last Sat saturday, they were outscored 7-0, while Bob Cousway '80 and Rob Heiney, and the team itself is captained by Diane Ouellez '79 and Captain.