

Continuous
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Since 1881

Volume 105, Number 15

The Tech

MIT
Cambridge
Massachusetts

Friday, April 5, 1985

MIT increases housing costs by 2.8 percent

By Sam Osofsky

Costs for housing in MIT undergraduate dormitories will rise 2.8 percent in academic year 1985-86. Prices for Commons meals will rise 4.7 percent and prices for à la carte meals will rise 3.5 percent, according to Lawrence E. Maguire, associate director of the Office of Housing and Food Services.

All residents of undergraduate houses received a letter describing the price increases last week.

The rent increase "is pretty small compared to previous years," Maguire said. "We still have labor cost increases, support staff cost increases, and so on."

"We have tried to cut the budget back as tight as possible by good management," Maguire said. The office has given more authority to house managers, and allowed them input on the house budgets.

The price of energy, a major expense, is subject to wide fluctuation, the letter said. The letter also stated that these fluctuations may lead to further rent adjustments during the academic year.

"No progress has been made yet on rent standardization," said H. Eugene Brammer, director of the Office of Housing and Food Services. The standardization plan, devised to group housing prices into four levels, was under consideration last year but was abandoned in order "to be fair," Maguire said. "Each house is so different."

Food prices rise

Maguire cited a 4.5 percent increase in salary for MIT support staff as a reason for the increase in food prices. Also, MIT must renegotiate a labor union contract this spring.

In addition, Maguire expects food supply prices to increase four percent.

MIT subsidizes food services with one half million dollars per year, Maguire said. The major reason is that only one third of the undergraduates subscribe to Food Service meal plans, he added.

The price increases should not reduce the number of students on meal plans, Maguire said. "The increases are more than competitive."

"There has been really active and positive input from the students this year," Maguire added. "Almost every undergraduate house has had something articulate to say, beyond 'I hated the stew.'"

"The evidence is in the à la carte versus Commons controversy," he said. Baker, MacGregor and McCormick dining halls have had only Commons meals in the past. The MacGregor and McCormick dining halls have since switched to à la carte in response to students' desires, Maguire said.

Dining Service has tried to "respond to student input, within operating costs," Maguire said.



Tech photo by Stephen P. Berczuk

Differential Equations can really be a Drag. The Burton Third Bombers entertain students in Prof. Arthur Mattuck's 18.03 class Wednesday in 26-100, to publicize and raise funds for their annual DTYD party.

Police arrest nine in protest march

By Craig Jungwirth

Student groups from Boston area colleges staged a protest march Wednesday that crossed the Harvard Bridge to MIT and resulted in nine arrests.

Approximately 50 demonstrators protested the United States' involvement in Central America, apartheid in South Africa and the Reagan administration's proposed budget cuts, said Vladimir Esealante, a Harvard graduate student and a participant in the demonstration.

The protesters met at Boston University and continued to the steps of the Julius A. Stratton '23 Student Center. The march ended on the Cambridge Common.

The University Campaign for Peace in Central America organized the groups, said Lydia Lowe, an undergraduate at the University of Massachusetts at Boston (UMass) and a member of Students Organized Against Reagan.

Metropolitan District Commission (MDC) police officers arrested the nine protesters for disorderly conduct and disobeying police orders after crossing a police line.

An MIT senior, who participated in the rally but refused to identify himself, speculated that those students arrested were not affiliated with MIT.

"After the arrests started, the [protesters] raised a slogan: 'Police can't stop the anti-apartheid movement,'" he said.

"The only thing I can figure out is they were blocking traffic or something," he continued.

When a UMass student approached the police asking them to release the first person arrested, she too was arrested, Lowe said. One protester who was chanting, "Stop police brutality" was also arrested, Lowe said.

The arrested students were taken to the MDC's Lower Basin

Precinct. Protesters at the Student Center steps collected approximately \$260 to post bail for those arrested.

"Progressive groups" consisting of "a broad coalition... built around progressive ideas" participated in the protest, Esealante said.

The demonstrators burned a South African flag on the Student Center steps while chanting, "MIT students say death to apartheid," and "BU, Harvard, MIT — out of South Africa!"

The group then continued their march to Cambridge Common, leaving the remnants of the burning flag on the steps.

On Monday & Tuesday, April 8 & 9, TCA will be sponsoring a blood drive on the second floor of building 66 from noon to 6:00 pm.

This extra drive will give those who were ineligible because of the measles, illness, or any other reason a second chance to donate; the turnout from the large drive was about 250 pints fewer than we had hoped.

EECS grads decipher puzzle, miss deadline

By Joe Kilian

Feature

"Almost anybody can learn to think or believe or know but not a single human being can be taught to feel..." e. e. cummings.

So began the solution to a two year old cryptographic puzzle put forth by Warren Holland of Decipher, Inc. The solution to the puzzle was worth a share in over \$110,000 in prize money until March 29.

Robert W. Baldwin G and Alan T. Sherman G, using a Symbolics 3600 Lisp Machine and clever cryptographic techniques, managed to piece together the correct solution last Saturday — sixteen hours too late to claim the prize money.

Baldwin and Sherman exploited weaknesses they found in the cipher, used statistical properties of English and developed sophisticated ways of detecting partial solutions to crack the code.

The only thing they did not do was carefully read the contest rules, which stated, "Deadlines will always be the close of business on the last business day of the month."

The oversight caused the team to miss the deadline, and tens of thousands of dollars, by a mere

sixteen hours.

The code was a multiple substitution cipher — a set of one or more numbers was assigned to each letter of the alphabet. For example, (1 17 23) could be assigned to A, (3 89 21) could be assigned to B and (5 18 97) could be assigned to C. The word CAB could then be encoded as (97 17 3), (5 1 21) or (18 23 3).

The key for the code was a sequence of 1252 characters. The numbers assigned to a letter corresponded to the positions the letter appeared in the sequence.

Because an average of fifty numbers was assigned to each letter and the coded message was 376 letters long, it was impossible to come up with the correct solution without using some extra information about the nature of the key.

The only clue initially given about the key was that it was derived from a document that was in the public domain.

Baldwin and Sherman had worked on the problem for the past two years. They also sponsored an IAP activity based on the problem in 1984.

The pair used statistical properties of the English language to determine that the key was probably created by taking the first (Please turn to page 2)



Tech photo by Henry Wu

Chris Andrysiak '87 completes a forehand in a match against Bowdoin College Wednesday. MIT was victorious with a 5-4 score.

Fair to increase public's awareness of opportunities in space industry

By Brian T. Hou
Spacefair '85, a biennial conference to motivate space enthusiasts and educate the general Boston public, will take place Apr. 12-15 at the Student Center, according to Peter H. Diamandis G.

The conference's theme is "Careers From Space." Its purpose is to "bring together pro-space groups to boost up public awareness of the potential that space offers," Diamandis said.

Several corporations are sponsoring Spacefair '85. All lectures, films and exhibits are free to students.

"In today's competitive world economy, space is a new and rapidly growing industry with a relatively small pool of talent to draw from," Diamandis said.

"There are a multitude of existing and rapidly emerging professional and technical fields which are part of our burgeoning space enterprise, and now is the time to create a better understanding of space career opportunities," he continued.

The four day event will highlight panel discussions on space-related professions: Aerospace Engineering; Architecture/Mechanical Engineering; Art; Astronautics; Biology/Chemistry; Business/Economics; Computer Science; Journalism; Law; Materials Science; Military; Medicine; Physics/Astronomy; Psychology/Social Science; and Political Science/Politics.

"Forty-five national experts from 15 fields have been invited to talk to students about space career opportunities," said Kenneth H. Sunshine, vice chairman of Spacefair '85.

ABC News Reporter Ms. Lynne Scherr, Dr. Philip Morrison, professor of physics at MIT, and Dr. Marvin L. Minsky, professor of computer science at MIT, are scheduled to speak, Sunshine said.

Corporate representatives from Draper Laboratories, General Electric, General Dynamics, Rockwell, COMSAT and Hughes Aircrafts will have presentations

and displays in addition to panel discussions.

Other highlights of the conference will include nine National Aeronautics and Space Administration (NASA) films and space art exhibitions. Some "fun," informal lectures will be presented, Sunshine added.

Spacefair '85 will be presented in two phases, Diamandis said. "The first phase takes place at a chosen university campus and focuses on a particular theme of interest to space-career oriented students." Spacefair chose MIT as its host this year.

"The second phase, which takes place at Spacefair's other participating institution, is comprised of events which aim to educate and entertain the general public," Diamandis said.

There will be workshops, lectures and exhibitions at Harvard University on Apr. 16 and 17.

Spacefair '83 attracted 5000 participants to five Boston area universities and the Boston Museum of Science.

Duo cracks code, but loses tens of thousands of dollars in cash award

(Continued from page 1)
letter of each word of the unknown text.

Decipher gradually eliminated documents from the field of possible keys. They eventually revealed that the key was created from a section of chapter six of Carl Sagan's *Cosmos*.

Baldwin and Sherman hired a typist to enter the entire chapter into the computer. They then attempted to derive possible keys to the puzzle by running a statistics program which analyzed the relative frequency of two letter combinations in English text.

Each candidate key was used to decipher the code. The pro-

gram tested the possible solutions to determine whether one of them resembled English.

This brute force approach did not solve the puzzle. Holland created his key by choosing the first letter of each word in the text he had chosen. But he skipped two words, which was enough to confuse Baldwin's and Sherman's relatively unsophisticated techniques.

The keys created were correct up to a point, but the rest of the keys were wrong and caused candidate solutions to be unrecognizable as English.

Baldwin and Sherman found a way to detect candidate keys that

were partially correct to handle this problem. Once they had found fragments of the correct key, they were able to partially decipher the message.

Using a sophisticated dictionary program that helped them reconstruct partially decoded words, the team was able to gather more information about the entire key, and eventually piece it together.

The two cryptographers were not dejected about missing out on the prize money. Their primary goal, extracting a poet's words from a sequence of incomprehensible numbers, had been accomplished.

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news roundup

World

French government to reorganize voting procedures — French President Francois Mitterand announced Wednesday his decision to change the voting system for next year's national elections. The move came as an effort to allow the ruling Socialist Party to remain in power in the national government. Voting will be by proportional representation according to political party lists.

Tutu leads apartheid protest — Nobel Peace Prize laureate Bishop Desmond M. Tutu led a march of 30 clergymen through Johannesburg, South Africa to police headquarters Wednesday. The demonstration protested South Africa's detention without trial of opponents of its racial policy. None of the protesters was arrested despite a law banning political protests by more than two persons.

Nation

National Guard fighters collide over New Hampshire — Two Air National Guard F106 fighter planes from Otis Air Force Base collided near Lake Winnepesaukee, N.H. The planes had been on a training exercise. No one was injured, although one of the planes crashed at the site. The second plane landed at Pease Air Force Base near Plymouth after sustaining considerable damage.

Artificial heart recipient to leave hospital — William Schroeder, the nation's second recipient of the Jarvik VII artificial heart, will be released from the Humana Heart Institute in Louisville, Ky. He will be moving to a transitional apartment located across the street from the hospital. Schroeder has been recovering from surgery since Nov. 25, 1985.

Local

House castigates Bank of Boston — The United States House of Representative's Banking Commission told Bank of Boston officers Wednesday that they were treated too leniently for their cash-reporting violations. They also criticized the officers for dealing with the Angiulos, a reputed organized crime family in Boston. Rep. Stewart B. McKinney (R-Conn.) said any depositor would be unwise to entrust his "grandmother's last \$10,000" to the bank.

Sports

Celtics handle Pacers — The Celtics won number 60 Wednesday night, extending their lead in the NBA's Atlantic Division to 5 games over the Philadelphia '76ers. Larry Bird led the scoring with 35 points. The Milwaukee Bucks, the Denver Nuggets, and the Los Angeles Lakers also lead their respective divisions.

Weather

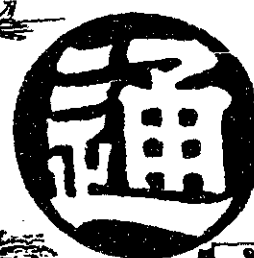
Rain is on the way — Today should be breezy and mild with lows of 50 degrees in the evening. Rain showers are likely tonight and tomorrow, and temperatures of 60-64 degrees are expected.

Michael J. Garrison

Attention Graduate Students

The Graduate Student Council will hold nomination interviews for the committee that is forming to study the impact at MIT of military support for research in education. Interviews will be held Tuesday, April 9 and Wednesday, April 10 at the GSC office (Walker, 50-222) from 5 to 7 pm. Interested graduate students should contact Anne St. Onge at 3-2195 for an appointment, and must also submit a resume and statement of interest (including relevant experience) to the GSC by Monday, April 8.

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11:00 COMPUTER SCIENCE / COMMUNICATIONS	11:00 PSYCHOLOGY / SOCIAL SCIENCES	11:00 POLITICAL SCIENCE / POLITICS
1:00 MATERIALS SCIENCE / CHEMICAL ENGINEERING	1:00 ASTRONAUTICS	1:00 MILITARY
3:00 ARCHITECTURE / MECHANICAL ENGINEERING	3:00 BUSINESS / ECONOMICS	3:00 JOURNALISM
5:00 PHYSICS / ASTRONOMY / PLANETARY SCIENCES	5:00 MEDICINE	5:00 ART

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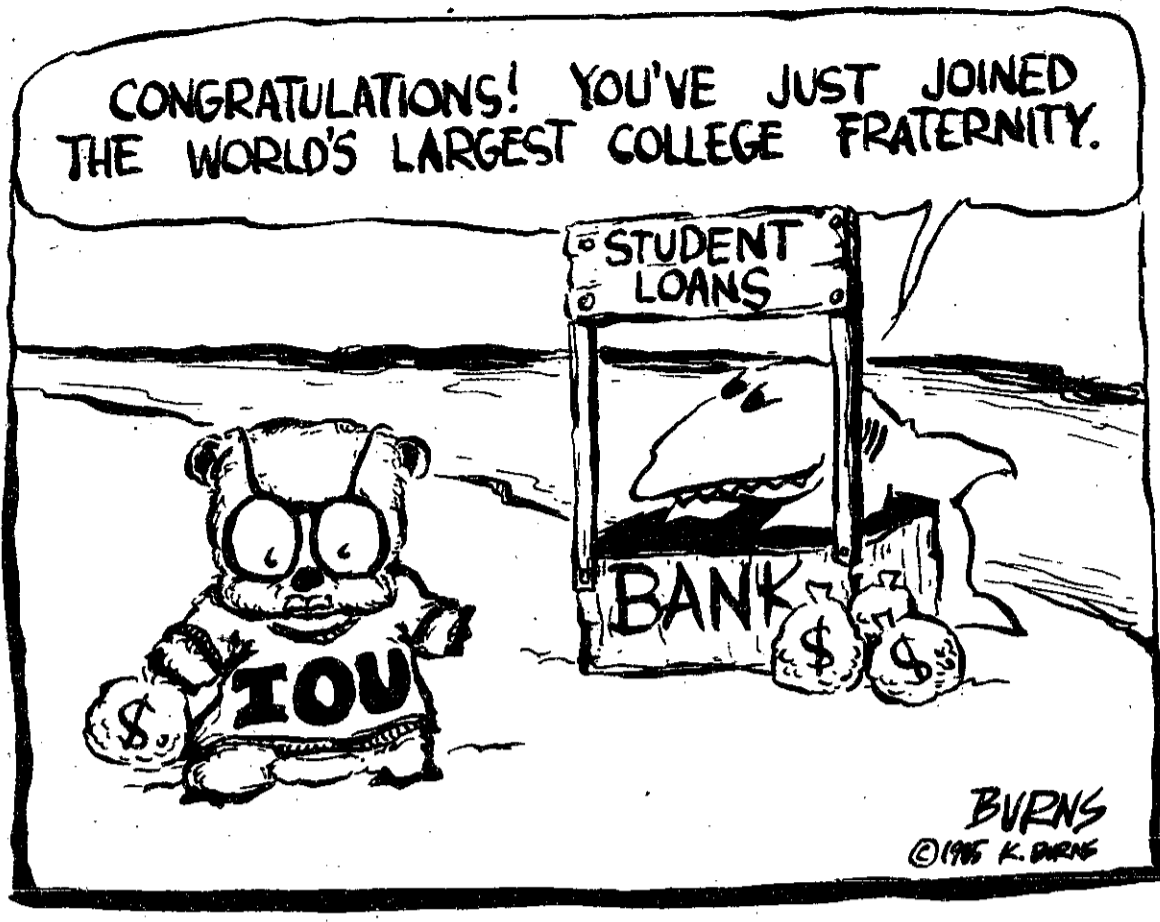
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opinion



Guest Column/Shirley McBay

In search of alcohol policy

(Editor's note: The Tech recently sent a letter to members of the faculty and administration encouraging them to write guest columns for the newspaper. Dean McBay is the first to respond.)

I want to take advantage of an invitation to write occasional columns that was extended to faculty and staff by the editorial board of *The Tech*. I appreciate the opportunity to seek advice from and to provide information to students.

I am inviting comments on two proposals recently sent to me by the *Ad Hoc* Committee on Alcohol, a group made up of faculty, staff, and students.

Students who wish to provide advice to me on these proposals may do so by sending their comments to 7-133 by Friday, Apr. 19 or by attending a meeting on

Wednesday, Apr. 24 from 4:30 to 6:00 pm in the Mezzanine Lounge of the Student Center. A summary of any written comments received will be presented at the public meeting.

Dry Rush

The first proposal is for a *dry rush* during the initial days of R/O (Friday afternoon through Monday evening), beginning with R/O, 1985. *Dry rush* is defined as the absence of alcohol at events held in common areas during the period when freshmen are being recruited for the various dormitories, fraternities, and other independent living groups.

The primary motivation for this proposal is the new Massachusetts law raising the drinking age to 21 as of June 1, 1985 and the fact that most, if not all,

freshmen will be under 21. In addition, the potential legal liability of the living groups and of the Institute as well as the possible loss of insurance coverage for alcohol-related incidents are of major concern.

It is suggested that the proposed "dry rush" could allow for important decisions such as housing to be made without the influence of alcohol, for savings of thousands of dollars, and for more creative programs and trips.

Guidelines for parties

The second proposal is for the adoption of clearer and more current guidelines for parties held on campus. Included are recommendations related to advertising, fund-raising events, obtaining approvals and licenses, closing times, and offering event planning seminars for certain types of parties.

In this proposal, guidelines are recommended for *dormitory parties* (not including private, floor, or entry events) and for *general parties* held elsewhere on campus (e.g., in the Student Center, Walker, Dupont, and the Athletic Center). The proposal is as follows:

(Please turn to page 5)

Editorials, marked as such and printed in a distinctive format, are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of the chairman, editor in chief, managing editor, executive editor, news editors, and opinion editors.

Columns and editorial cartoons are written by individuals and represent the opinion of the author, not necessarily that of the newspaper.

Letters to the Editor are welcome. They should be addressed to *The Tech*, PO Box 29, MIT Branch, Cambridge MA 02139, or by interdepartmental mail to Room W20-483. Letters should be typed and bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. *The Tech* reserves the right to edit or condense letters. We regret we cannot publish all of the letters we receive.

Guest Column/Adrian Nye and Robin Wagner

Issues suggested for commission

An MIT commission is being established to study the impact of military funding on MIT's educational and research environment. The commission will include students and faculty members. A broad coalition of student organizations and individuals publicly endorsed the creation of this commission in *The Tech* ["Students should look into funding," March 19] and at the March 20 faculty meeting.

To follow up this endorsement, we would like to offer suggestions on the issues which the commission should address.

First, we ask that the charge of the commission be flexible and broad in scope. We believe that the commission should be free to examine all relevant questions, even if some questions might fall under the jurisdiction of existent faculty committees. Only by examining a full range of questions will we be able to avoid incomplete and/or misleading conclusions.

Second, we ask that the commission be given sufficient resources to produce meaningful results. Funds should be available to collect existing and new data from sources inside and outside the Institute. Support for a research staff should be allocated, if necessary.

Third, we ask that commission membership be balanced with respect to professional expertise and contact with the defense industry. We think that at least one economist, one political scientist and one philosopher/ethicist

should sit on the commission, as well as engineers and scientists from various disciplines. In addition, we ask that undergraduate and graduate student representatives comprise 1/4 to 1/5 of the total commission membership.

Fourth, the commission should address, at least, the following questions:

- What portion of the on-campus and Lincoln Laboratory research budgets can be attributed to military-related sources? Specifically, how much military-related money does MIT receive from domestic and international government agencies, defense contractors, and gifts? Which US government agencies fund military research? Candidates besides the Department of Defense should include the Department of Energy, NASA, Defense Intelligence Agency, CIA, National Security Agency, the National Science Foundation (NSF), and the National Institutes of Health.

For example, MIT has obtained NSF money for on-campus computer research on cryptology. In a departure from its usual practice, the NSF has required the recipients of the cryptology funds to submit any potentially classifiable findings — before they are published — to the NSF to review for possible classification by an appropriate government agency (as a civilian agency, the NSF does not have the authority to classify research).

- How many MIT faculty, post-docs, students and other

(Please turn to page 5)

Column/Joseph Shipman

Star Wars evaluated as land missile defense

Does this country need an anti-ballistic missile system?

Last month I argued that the Administration's Strategic Defense Initiative ("Star Wars") was no good as a population defense. It could only be justified as a defense of our land-based missiles against a Soviet strike. This column will discuss whether such a defense is a good thing.

On a very basic level, nuclear weapons are evil. The idea of shooting them out of the sky before they detonate and kill people is good. Unfortunately, things are not so clear anymore if the result is to protect other nuclear weapons so that they can kill people. If countermeasures can render such a defense ineffective, a lot of money will have been spent to make the world a more dangerous place.

The most important question is whether Star Wars will increase or decrease the probability of a nuclear war. Expense and all else become irrelevant without a clear answer to that question.

Let's try to figure out what will happen if the Administration goes ahead with a massive program to put defensive weapons in space.

First, arms control will be in big trouble. Having broken the ABM treaty, it will be much harder for us to get any new arms agreement. The USSR has been accused of violating the ABM treaty with a radar system they are building. But this is a minor breach compared to the violation Star Wars would represent. I'm not saying we have no

right to violate the treaty, since the Soviets may have already. I am just saying that any new treaty will be much less likely.

Second, the Soviets are afraid of a defensive system. A defense would give us strategic superiority in their point of view. They are likely to build a huge number of new weapons: both ballistic missiles, to try to overwhelm our defensive system, and cruise missiles and bombers to circumvent it.

Third, they will certainly try to build their own antimissile system. Suppose theirs is operational before ours is? This may seem unlikely, but Sputnik was unlikely, too. In such a case, they could throw their weight around with impunity all over the world. They would figure that we could not respond with a preemptive strike against their missiles — that we would be unwilling to attack their cities and invite retaliation against ours.

The Strategic Defense Initiative is a technological fix to a problem that needs a political solution. Rather than reduce the risk of nuclear war, it will make the world a more dangerous and uncertain place.

I have nothing against technological research. But once SDI gets rolling, many groups will have interests in keeping it going. It will be unstoppable, whether it works or not. That is why it is so important to check it now.

One final observation: talk is cheap. We can certainly afford to keep talking to the Soviets. We can't afford not to.

The Tech

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Friday, April 5, 1985

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opinion

Stricter party guidelines suggested

(Continued from page 4)

● Advertising

Parties held anywhere on campus would not be advertised to the general public in any manner. They could be advertised on other college campuses but, in the case of general parties as defined above, prior approval of materials to be posted on other campuses would be required.

● Fund-raising Events

Events designed to generate income would have to be held in the Student Center, Walker, Dupont, or the Athletic Center. Campus police presence would be required at all such events for security reasons.

● Approvals and Licenses

Dean's Office and Campus Police approvals, liquor and entertainment licenses, and requests for Campus Police presence would have to be finalized four days prior to the event. No exceptions would be made.

For dormitory parties, Dean's Office approval is provided by Dean Peter Brown in 7-133. Approval for general parties must be obtained from Barbara Feinman, campus activities advisor, in W20-345.

● Closing Times

Dormitory parties and general parties as defined above would officially end at 1:00 am (i.e., no more music or alcohol). The Campus Police would allow an additional one-half hour for the crowd to disperse.

● Event Planning/Bartender Training Seminars

When alcohol is to be served, the Committee is recommending that students requesting approval for the event be required to have already successfully completed an event planning seminar and to provide a list of trained bartenders for the event.

An Event Planning Seminar is a three-hour workshop in which such topics as proper party procedures, potential risks and liability, publicity techniques, alcohol purchasing and serving, and alternatives to the serving of alcohol are discussed.

Certification, good for one year, would be given upon successful completion of this seminar which would be sponsored by the Campus Activities Office four times per year and open to anyone wishing to attend.

A Bartender Training Course is

a six-hour (three session) program designed to train students to run a full bar for any party on campus. Other topics would include potential liabilities associated with the serving of alcohol, measuring and serving drinks, importance of uniform serving policies, and how to deal with intoxicated people.

Arrangements for offering this course would be made by the Campus Activities Office four times per year with certification for one year available upon successful completion of the course.

Except for the seminars and training courses which would not be available before mid-August, 1985, the remaining recommendations for parties would become effective May 1, 1985. All recommendations for parties as well as for a dry rush would be in full effect beginning with R/O, 1985.

Summary

External groups such as the National InterFraternity Conference have passed resolutions on alcohol that include the promotion of a non-alcoholic rush. Other campuses are adopting stringent alcohol policies (including no alcohol at campus events) out of concern over the increasing consumption and abuse of alcoholic beverages on college campuses.

The Ad Hoc Committee on Alcohol at MIT has thus far chosen to make recommendations regarding certain types of events rather than to recommend an all encompassing policy. In either case, it is clear that we will need the support of everyone on campus if we are to keep restrictive policies at a minimum.



Commission should examine military funding

(Continued from page 4)

technical staff are engaged in defense-sponsored research on campus and at Lincoln and Draper Laboratories? How many of them do classified research? How many students are involved in military research through the UROP and Co-op programs, research assistantships, and undergraduate and graduate theses? For instance, even though MIT formally divested the Draper Lab in 1973, the Institute continues to maintain strong ties with the Lab.

The MIT 1984-85 *Bulletin* states, "A number of MIT faculty members maintain a close association with the [Draper] Laboratory, and thesis research opportunities exist which fulfill the residency requirement for an MIT degree. Students are in direct daily association with the professional staff of engineers and scientists of the Laboratory, and thus learn to appreciate the economic and human, as well as the technical, aspects of a system."

Undergraduate and graduate students also may be employed by the Laboratory and may work directly on a project [original emphasis]. These opportunities provide an excellent technical internship which greatly broadens the students' educational experience."

● Are student career choices significantly affected by the high visibility of military contractors in the form of heavy advertising and recruitment? Do MIT students feel their prospects for employment are enhanced or limited by increasing job opportunities in the defense sector? We have preliminary evidence that a sizable fraction of MIT students have reservations about working for the defense industry.

Last fall, MIT Student Pugwash conducted a voluntary survey of MIT undergraduates on their attitudes toward the social impacts of science and technology. One question examined moral concerns related to employment.

Students were asked to rank their desire to work for the defense industry on a scale ranging from strong preference to strong aversion. Out of the 782 undergraduates who answered this question, 56 percent expressed

aversion to working for the defense industry. In contrast, only 15 percent expressed a preference for doing defense-related work. Twenty nine percent indicated they were indifferent. Broken down further, 43 percent indicated they have a strong to moderate aversion towards working for the defense industry, while seven percent expressed a strong to moderate preference.

We think these results merit further investigation: Although our sample size was relatively large — 17 percent of undergraduates — approximately representative with respect to course and sex, there was some selection bias in our survey, in part because it was voluntary. Therefore, we ask that the commission conduct a more extensive survey of attitudes of past and present undergraduate and graduate students. In addition, we request that the commission examine the career paths of alumni with the aid of the Alumni Association.

● Do faculty and staff feel their choice of projects is or will be affected by the shifting priorities in the national research budget? The Reagan Administration's proposed 1986 budget calls for a 21 percent increase for military research and development. This includes a 16 percent increase for "basic" military related research. In contrast, other "basic" physical science research would only increase by 3.3 percent, and the life sciences would decrease by 4.9 percent (these figures are corrected by 4.3 percent inflation).

● Are there other less obvious affects on the research environment for faculty and staff? For example, how much private consulting do faculty currently do for military contractors, and how has this amount changed over time, and why? Do faculty (and students) engaged in "basic" military research now experience overt or covert pressures to restrict the publication of their findings? To answer these and other related questions, we think that the commission should survey the faculty and research staff.

● As tuition bills have skyrocketed and financial aid has been unable to match this rise, have more students turned to military support programs, such as ROTC, to pay for their education?

An examination of these issues is essential for an adequate review of the military influence on MIT. We hope that the students, faculty and administration officials will consider our comments as they help shape the emerging commission. Finally, we hope that students, faculty and staff will think about these issues and express their views on this subject within the MIT community.

Column/Jonathan Richmond

Philip Morrison: children should learn about the natural world

"When you did have a little mechanical mouse which moved, it didn't help you understand mice," said Institute Professor Philip Morrison on April 3 at the first of two lectures to mark his selection as the tenth James R. Killian, Jr. Faculty Achievement Award recipient.

Morrison laments that "the rich daily experience of farm kids in Jefferson's self-reliant republic is no longer widely shared. Instead symbols and images, once strange and scarce flood the ubiquitous video screens. Schools now need to offer more than symbols: simple and genuine experience, diverse enough to widen the common understanding from which reasoned structures can grow."

Philip Morrison wants us to return to a science of the natural, built on "some success in solving new problems set to all children by the world they handle." He shows slides of children gazing in wonder at a giant bubble in a science museum, or exploring the development of the roots of a plant. We see a picture of a workbook displaying the results of understanding and categorizing a set of rocks, the categories formed from looking, feeling and judging geological samples: The abstraction derives from a contact with the natural, and relates ultimately to the real world. The paper upon which the results are written is no more than a tool; we don't even notice it.

Also on April 3, a photograph of Professor Seymour A. Papert appeared on the front page of *Tech Talk*. He is seated next to a black fourth grade child who gazes at a computer, the key component in Papert's quest for an education of the artificial.

(Editor's Note: Robin Wagner is a graduate student representative of the Faculty committee on Educational Policy and an active member of MIT Student Pugwash. Adrian Nye holds an S. B. in mechanical engineering. He wrote his senior thesis on "The Effects of Maintaining Technological Superiority in Weapons.")

While Morrison wants children to experiment with the world around them, Papert would bound minds within the constraints of computer programs.

Papert is project director of a five-year program to lead to the development of "the school of the future" at the James W. Hennigan Elementary School on Jamaica Plain. To do this, Papert says, "a computer must be available every time someone wants to write something, calculate something or just fool around."

In Papert's world the means becomes the end: the top priority is to provide hardware — perhaps more than 100 computers for 200 children; the second priority is to make every activity in the school revolve around the computer.

It is no accident that Papert is pictured next to a black child. This is not the first time Papert has used minorities to further his ends. In a recent public debate, he deflected Professor Joseph Weizenbaum's charges against excessive use of computation in schools by telling a story about "Melvin," an underprivileged black child from New York, previously unable to relate to either people or school work. But, according to Papert, when exposed to a computer, Melvin learned through his relationship with the machine.

Some hackers also enter into close communion with the computer, finding in it a channel for their loneliness and inability to cope with reality. College hackers are adults, though, and responsible for their own decisions.

But should we use underprivileged children as guinea pigs in an experiment which at best pro-

vides the equivalent of a baby's pacifier? The computer lulls the child into delusions of adequacy while present, but produces an even louder scream than heretofore when taken away.

If in a social sense the computer is no more than a crutch, in an intellectual sense it is a perpetrator of a narrow world view, one which assumes that the whole world may be represented in formalisms, and that the human mind is no more than a symbol processor: it denies the richness of culture.

The computer world is simple and solid; it glosses over the real world which is complex and diffuse. A seductive security comes from putting big problems in little capsules: The artificially defined problems appear to be solvable; but the real ones won't go away.

"The innovators in aviation at the beginning of the century worked by building whole airplanes and flying them," said Papert in 1968. "The problems of supersonic airliners and atomic aircraft are being solved now by people who could no more construct an airplane than fly themselves."

But these people do know what flying is. Should a child, still at the earliest stages of intellectual development, be allowed to work on an artificial formulation of partial concepts before he is aware of what the concepts as a whole mean?

Today's educational system produces adults who cannot write clearly in their own language and who do not understand the fundamentals of science. The system is bad: There are too few teach-

(Please turn to page 6)

Disturbed about new physics/EECS option

To the Editor:

I was very disturbed when I read about the new physics/EECS option in the April 2 copy of *The Tech* ["CEP approves physics option."] I was aware it is harmless, since no one is compelled to choose it. So why did I react so strongly? My reaction arises not simply because I believe the program is pointless, but more particularly because its creation relates to the larger issue of career goals and how to achieve them, which is inadequately discussed at MIT.

Who could possibly benefit from such a program? Certainly not prospective EECS majors. Why should they fetter themselves to an excess of physics requirements? Similarly, the program of required classes is

unlikely to suit physics majors interested in electrical engineering. Each student has different needs and interests, and should select coursework to satisfy them.

I could only envisage two types of students choosing the VIIIA option: physics majors who independently want to take the specific Course VI classes, or converts from Course VI to Course VIII who have already taken them. In both cases, the existence of the option is irrelevant, since I sincerely doubt having a "letter from each department" would make one ounce of difference in their later lives.

Graduate schools and potential employers are largely indifferent to one's undergraduate major. Their decisions are based on achievements and interests, not

the calligraphy on one's diploma. In almost any scientific or technical endeavor, a direction, any degree from MIT, and a few courses and some experience in that area virtually guarantee success. For example, my acquaintances include a philosophy major currently engaged in state-of-the-art AI, and an Urban Studies major who is currently pursuing a PhD in Psychology, though she took one IX subject as an undergraduate. These sorts of paths are not unusual for MIT graduates.

Unfortunately, many students are unaware just how little importance is attached to their major. Even worse, too many never really consider their goals and how to achieve them. The overall atmosphere at MIT distracts one

from serious thought about life after graduation; many seniors I know are only now beginning to wonder what they will do next. The traditional attitude dictates they will attend medical or law school, earn a high salary in industry, or continue studies in their fields; this dogma eliminates the need for careful contemplation.

The myth persists even though good counseling and information are available. The Career Planning & Placement Office (CPPO) has an excellent staff and resources, but they are underused — otherwise, there would be fewer confused seniors. Freshmen and sophomores should be encouraged to explore possibilities. The Deans' Office, undergraduate departments, faculty advisors,

CPPO, and student activities could help through individual letters, discussions and seminars, and increased publicity for the CPPO. However, until the community's attitude improves, such measures cannot be wholly effective.

Indicative of the myth is the new physics/EECS program; it reinforces our belief in limited options. There are dozens of ways to major in physics and minor in EECS, and Course VIII-A is only one. In this respect, its success should be measured by how few students enroll in it, compared to the number of physics majors interested in EECS who put together their own, creative curriculum tailored to their individual goals and interests.

Donald S. Kane '85

Looking at a natural education

(Continued from page 5)

ers, and not all of those we have are adequately trained or motivated. The social problems of poverty overburden the educational environment further with the tensions of rebellion.

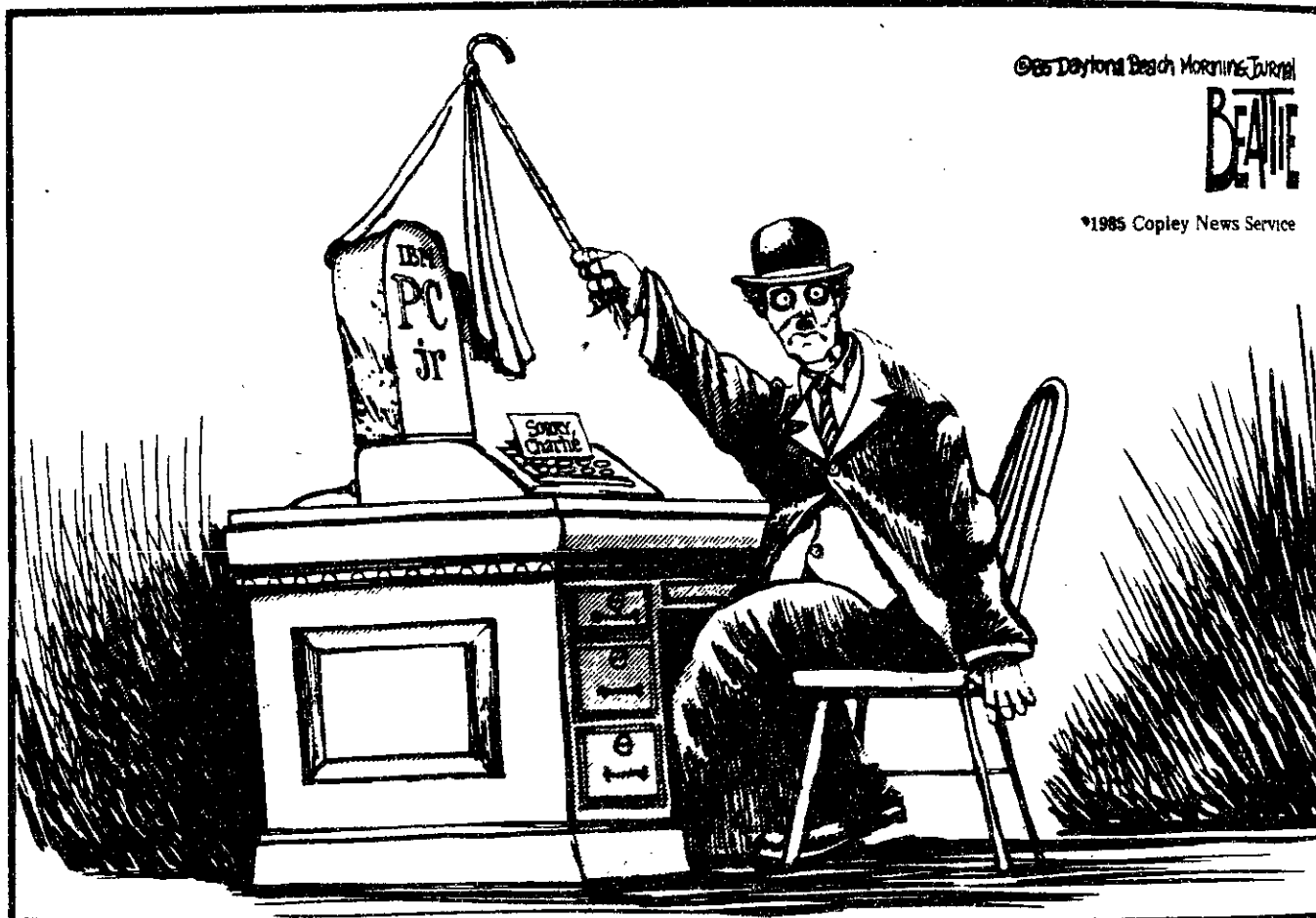
The first task is to provide more and better teachers who can relate to the needs of the children in their charge and, through the development of relationships of human trust, prepare them to deal better with the harshness of the world. The second task is to teach children the fundamentals of their culture, their language and literature, and to provide an environment where they may explore and discover the science which governs the natural world.

This is not to deny that the computer will have some role: older children who are competent in basic skills and who are interested in programming, should be encouraged to program. And

there may be other, limited, applications where the computer be of educational benefit: But in such cases the computer would only be a means, only a lens.

In Papert's system, the computer has become the whole world. Funded by profit-seeking IBM, his system provides an excuse to ignore problems of illiteracy and social unrest.

Philip Morrison has a vision of a helix, in which old ideas are re-born, and with a new vigor. He dreams of a world where children will learn of the world around them through the unbounded curiosity and free experimentation possible by direct experience with the natural world, an education in which abstraction and reality go hand in hand, in which an artificial illusion is not taken as the be-all-and-end-all of life. We would do well to heed his message.



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Harley Shaiken: Research Associate, STS Program, MIT

Respondent: **Michael Piore**: Prof. of Economics, MIT

TUESDAY, APRIL 9 4:30 P.M. Rm. 9-150

Informal Supper and Discussion to Follow

Cosponsored by

The Technology and Culture Seminar and
The Women's Studies Program at MIT, and
Computer Professionals for Social Responsibility

PHYSICS OPEN HOUSE

will take place

Tuesday, April 9

from 3:00 - 5:00 PM, in the Undergraduate Physics Common Room (4-339). The event will commence with departmental introductions of faculty and upperclassmen. Students will then be able to participate in four discussion groups in the areas of

THEORY **ASTROPHYSICS**
ATOMIC/PLASMA/CONDENSED MATTER
NUCLEAR AND PARTICLE PHYSICS.

Following the discussion groups will be an opportunity to learn about Physics UROP and other relevant interests. Refreshments will be served. This is a great time for freshmen and sophomors to learn about the curriculum, Society of Physics Students, Sigma Pi Sigma and many other pertinent matters. REFRESHMENTS. Come one, Come all.

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comics

The Legend of Fred
by Jim Bredt

NOW IS AS GOOD
A TIME AS ANY
FOR ANOTHER
EPISODE OF THE
**LEGEND
OF
FRED**

YOU KNOW, WE CAN'T KEEP THIS
UP FOREVER!
WHAT DO
YOU MEAN?

WELL, THE FIRST COMPUTER BOMB
WORKED FINE BUT WE
DIDN'T MAKE THE NEWS.
THE SECOND ONE IS OUT
OF CONTROL; THAT CRAZY
RAT IS GOING TO GO ON A
SHOOTING SPREE. THINGS
JUST AREN'T WORKING
LIKE WE PLANNED.

YEAH, YOU'RE RIGHT. I GUESS
ALL THOSE COMPUTERS WE
ZAPPED WERE STILL
UNDER WARRANTY
SO THEY JUST GOT
THEM REPLACED.
WE SHOULD'VE ISSUED
AN ULTIMATUM OR
SOMETHING

CHALK IT UP TO EXPERIENCE.
I JUST HOPE MIT DOESN'T
THROW US OUT OF HERE
KNOCK
KNOCK

I UNDERSTAND
THAT YOU HAVE AN
ELECTROMAGNETIC
PULSER
SEE? NOTHING
IS SECRET!

PROF. MARVIN INTRODUCES HIMSELF
AND EXPLAINS TO TIM AND LIZ
THAT HE WANTS TO USE THE
COMPUTER BOMB TO RECONSTRUCT
THE INFORMATION WHICH HAS
BEEN RECORDED HOLOGRAPHICALLY
ON MIKE MEK MAN'S BODY.
HE WANTS TO CONVINCE THUCK
AND AL, THE CIA AGENTS THAT
IT WAS A RUNAWAY PHYSICS PROJECT

I'VE GOT A FEW
TOYS
IN MY BASEMENT
THAT WE CAN USE TO
FOCUS IT BETTER.

WE'LL HAVE TO USE THE FIRST MODEL.
THE SECOND ONE HAS
RUN INTO DIFFICULTIES.
IT'S MORE POWERFUL
BUT IT PUTS OUT TOO
MANY X-RAYS. WE
HAVE A DERANGED
UNDERGRAD ASSISTANT
WORKING ON IT, TOO.

DRAWN BY J. BREDT 4-4-85

IN RESPONSE TO A
MESSAGE PROF. MARVIN
SENT TO CHUCK AND AL
THEY ARRIVE AT THE
INDUCED APTITUDE
LABORATORY WITH
MIKE MEK MAN,
WHO IS TO BE AN
ESSENTIAL PART OF
THE DEMONSTRATION

I SURE HOPE
PROF. MARVIN
HAS A DAMN
GOOD EXPLANATION



MIKE ME BOY!
HOW ARE YOU DOING?
TURN ON YOUR TAPE RECORDER
OK I GUESS.

MY FRIENDS HERE AND I HAVE
ARRANGED A LITTLE
DEMONSTRATION OF
THE APPARATUS WHICH
YOUR SATELLITE PICKED
UP ON THE NIGHT
PROJECT ATHENA GOT IT.

ELIZABETH! WHERE DID YOU
GET THAT HARCUT?! WHAT
HAVE YOU BEEN UP TO?
HI DAD!
I'VE BEEN DOING
SOME...ER...
CONSULTING.
I HOPE YOU'RE PAYING YOUR TAXES.
DO YOU NEED ANY FORMS?
OK MARVIN, LET'S START
SETTING THINGS UP
I'LL BOOT UP THE
CONTRADICTION MACHINE

OH NO!
NOT AGAIN!

ARTS

ClapTrap is Laugh Trap

Claptrap by Ken Friedman, directed by Robert Drivas; American Repertory Theatre at the Hasty Pudding Theatre.

If you want to laugh painfully, go to Ken Friedman's *Claptrap* at the Hasty Pudding. *Claptrap* is very silly. There's an actor who can never get a role, and a writer who spends years working on myriad versions of "page one," and is unable to progress to page two.

For the actor, the world comes down to "love, murder and random homosexuality." When he gets caught in an elevator with a CBS mogul, and clinches a deal to write "Elevator '85," his contract specifies that he must be gay. So he's obliged to stop his attempt to seduce the writer's girlfriend (who has just pretended to strangle the writer); but the problem is solved by the idea of having him be gay and heterosexual in shifts.

The first act takes place in a funeral parlor converted from its previous use as a "Mr. Lightning's Chicken;" the smell of ribs lingers on. The funeral is for the writer's girlfriend's stepfather whose remains fail to arrive on time; unfortunately her mother does arrive on time. The writer, acting as undertaker, makes an impromptu "art deco" urn out of soda cans. "It's garbage," he's told. "Exactly, it's art."

Ken Friedman is, above all, a master of language. He constructs mad situations with the most imaginative use of words in ways which grab you twice: Once on contact, and secondly — a split second later — once you're caught in the stranglehold of the inevitable laugh, to make you almost choke on the mirth. The scene where the actor enters the writer's chicken shop funeral parlor thinking he's arrived for a play audition is a particular gem of farcé. The words used by the actor fit the world of the "funeral," promoting unlimited and wonderful misunderstanding.

The acting was of a consistently high standard all round. Harry S. Murphy plays Sam, the writer, making him a bumbler, hyper, and insecure. His attempts to be a funeral director were quite delicious. "My mourners are here, primed, ready to grieve," he exclaims with the utmost indignation when the remains fail to turn up. Cherry Jones did a splendid job as his hair-brained girlfriend. Her expressions and posturing were quite riotous. Treat Williams gave Harvey, the actor, a more than due load of airs and graces, creating a character of complexes centered on failure. Rose Arrick brought out the hysteria at the right moments as Mom; Ursula Drabik as Sybil, whom Harvey meets

while waiting for a bus, generated a massive laugh as she burst into the funeral to demand "hot juicy ribs."

The sets by Karen Schulz were just right: The parlor, with cooking implements still in view, man and woman signs still conspicuously in view on the bathroom doors, panty hose to provide black for mourning and a great deal of grime, was beautifully enigmatic. And the sheer squalor of Sam and Harvey's apartment (where half the bathroom was cleaned 17 months ago...) cemented *Claptrap* as a Laughtrap even if Harvey never gets his coveted role in *Deathtrap*.

Claptrap is part of The Tech Performing Arts Series at the Hasty Pudding Theatre. Tickets are available for all members of the MIT community for only \$5. See announcement this issue.

Jonathan Richmond



***** On the Town *****

On the Town ON THE TOWN On the Town

Friday, April

William Pitt Root, the University of Montana's Creative Writing Program director and author of *Invisible Guests* (1984), will conduct a reading today (sic) as part of the *New American Poets at MIT* series, which is sponsored by the Writing Program. 8 pm, 4-270, call 253-4741 for information.

The Great Dictator, Charlie Chaplin's bitter satire of Nazism, will be shown by LSC at 7:30 pm, in 10-250. They also feature **The Karate Kid**, at 7 and 10 pm in Kresge.

Handel's Brockes Passion will be performed by Craig Smith and Emmanuel Music in Emmanuel Church, 15 Newbury St., Boston, at 8 pm. Admission free, information 536-3356.

Saturday, April 6

Today's LSC movie is **Seven Samurai**, at 8 pm in Kresge.

Sunday, April 7

Today is Easter, and LSC has **La Cage aux Folles** — at 6:30 and 9 pm, in 26-100.

Wednesday, April 10

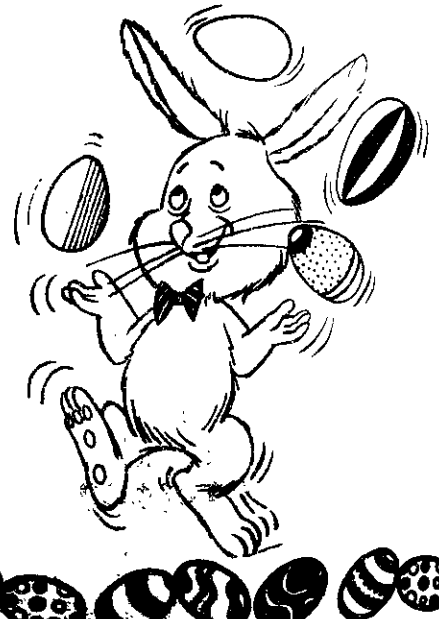
Prof. Philip Morrison will give the second of this year's Killian Lectures in 10-250, at 4:30 pm. Title: **Cosmic Fireworks: Starbursts, Whirlpools, and Fountains**.

Bach's Passion According to St. John will be performed at 7:30 pm in the Church of the Advent, 30 Brimmer St., Boston. James David Christie conducts, the Master Singers sing, members of the Boston Early Music Festival play. Student tickets \$6. Information: 666-2542.

Thursday, April 11

The Harvard-Radcliffe Dramatic Club starts its performances of Shakespeare's **Troilus and Cressida** today; they will continue on April 12-14 and 18-20 at 8 pm, and on April 20 at 2 pm. Loeb Drama Centre, 64 Brattle St., Cambridge, student tickets \$3 and 4.

Michiel Bos



ARTS ARTS ARTS arts arts arts ARTS ARTS ARTS
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New England College Band amazing

New England Inter-Collegiate Band, directed by Eugene Corporon. At Kresge, Sunday, March 31.
 Sunday's performance of the 1985 New England Inter-Collegiate Band was much the group's very existence: transient, sublime. The band's purpose, as delineated in the opening remarks, was to "get students from New England colleges to meet their peers, under the guise of performing excellent music with a guest conductor." It succeeded on all accounts.
 Members of the elite performance group came from twenty-three regional colleges, including Harvard, Yale, Tufts, the Berklee School of Music and host MIT, which could boast of ten members. This year's best conductor was the distinguished Eugene

Corporon of Michigan State University.

Corporon wisely limited the presentation to three compositions, allowing for concentration on their refinement. Apparently, musicians, conductor and method harmonized beautifully, as the trio of pieces emerged with such polish that it was difficult to believe rehearsals had begun the day before the performance.

From the opening theme of "Children's March 'Over the Hills and Far Away,'" the clarity and tone of the sections (particularly the French horns) and solo parts (including doubly-tongued flute lines) dominated the performance. While "Children's March" suffered slightly from sluggishness and cliches (reminiscing one of Coplandish/Western music), the tight band sound transcended these problems.

The second work of the afternoon, a "Medieval Suite" by Ron Nelson, made extensive use of the varied tonalities of the band. An intoned Gregorian chant, superimposed on ad-libbed trumpet and flute flurries, created the weighty mood that surrounded the composition. Once again, the musicians shined, producing sustained pedal tones and harmonic intervals under an increasingly complex theme.

The section dedicated to Machaut (the 14th century composer) brought the climax of this piece. Harmonies effortlessly slipped from major to minor keys, as the volume and complexity of the composition steadily grew. Finally, the listener was left with only the haunting opening chant.

The finale, "Gazebo Dances," merely added finishing touches to what the band had already demonstrated. Under Corporon's

skillful hand, the group waltzed through varying time signatures and syncopated accents. An excellent sectional balance was maintained at all dynamics. The final Tarantella took the band full circle, to a familiar bouncy feeling found in "Children's March."

The performance could be criticized for a dearth of challenging melodic lines for individual players, in contrast with an earlier performance of MIT's own band. Surely, the lack of rehearsal time and the conscious effort to emphasize the unity of the group made some omissions necessary. But the cohesiveness of the band, something normally expected only of long-standing groups, tended to supersede any such shortcomings, making the afternoon an uplifting experience.

Scott Lichtman

The Tech Performing Arts Series
 announces
**American Repertory
 Theatre/New Stages**

The Tech is pleased to announce that discount tickets will be available for the American Repertory Theatre/New Stages series at the Hasty Pudding Theatre, 12 Holyoke St., Harvard Square. Tickets priced at \$5 will be available to the MIT Community for the following performances:

Gillette by William Hauptman on April 11 at 8pm and on April 21 at 2pm.

Claptrap by Ken Friedman on April 14 at 2pm and on April 14, 18, and 21 at 8pm.

Tickets are on sale by courtesy of the Technology Community Association. Drop by Room W20-450 in the Student Center, or call 253-4885.

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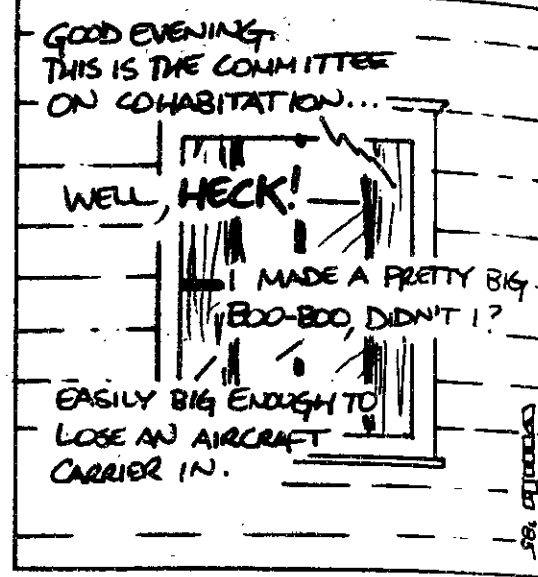
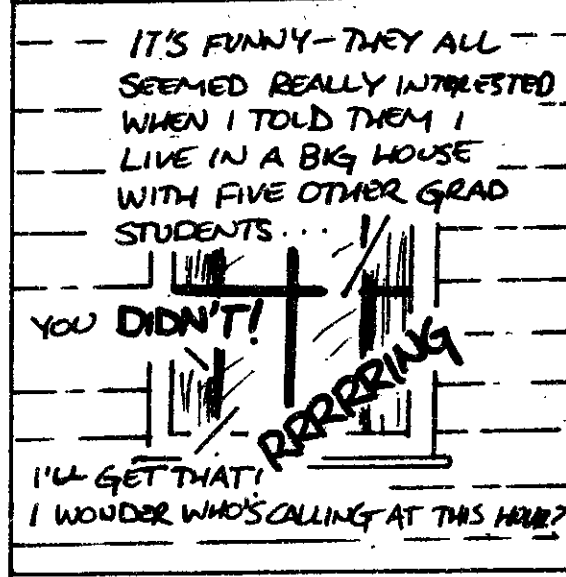
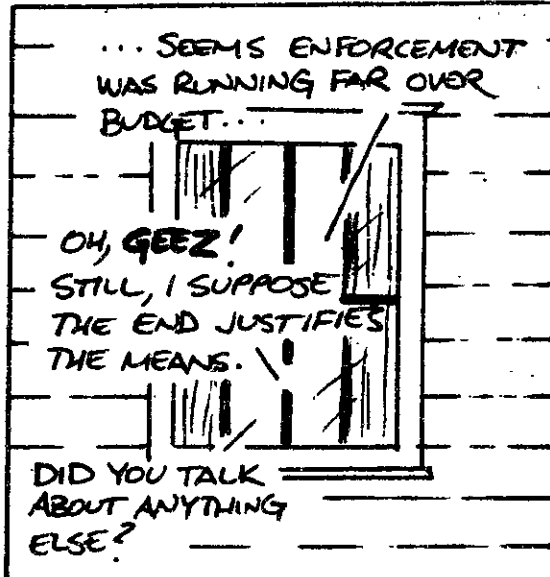
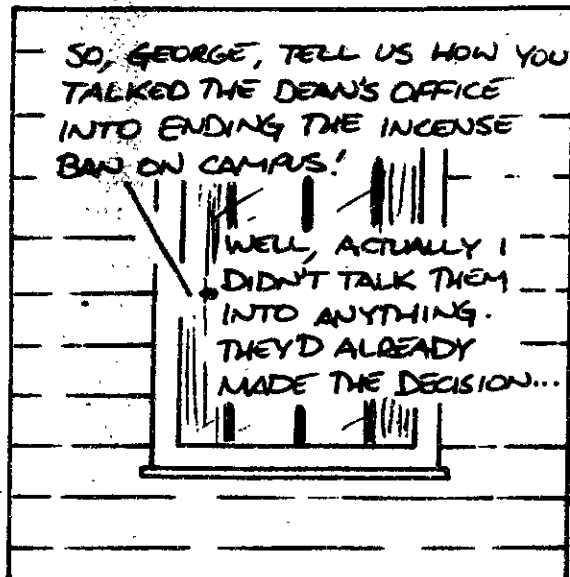
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\$6/hr., on campus, 5-10 hrs/wk., start immediately. Chemical, bio-science or related lab experience required. Interesting work for small business. 965-6340, Cole.

SUMMER SUBLETS WANTED
Visiting profs seeks furnished apts/homes 7/1 - 8/31. Will consider monthly arrangements. Cambridge - Harvard Sq. area only. Call Audrey 868-3900, M - F, 9-5.

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May the sacred heart of Jesus, be adored, glorified, loved & preserved throughout the world now & forever. Sacred Heart of Jesus, pray for us. Say this prayer 9 times a day. By the 8th day your prayer will be answered. It has never been known to fail. Publication must be promised. My prayers have been answered. JVP

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1972 Volvo 1800 ES Sportswagon, very pretty, well maintained, air, European sunroof, Pioneer stereo cassette, aqua with tan interior, good tires and snows, stored winters, \$5500, 876-0586.

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The **MIT Equipment Exchange** offers surplus equipment and used typewriters to students and staff at reasonable prices. Located in Building NW30, 224 Albany Street. Open Tues., Thurs. 11 am - 3 pm.



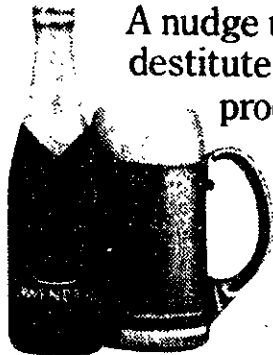
Good friends will give you a break when you're broke.



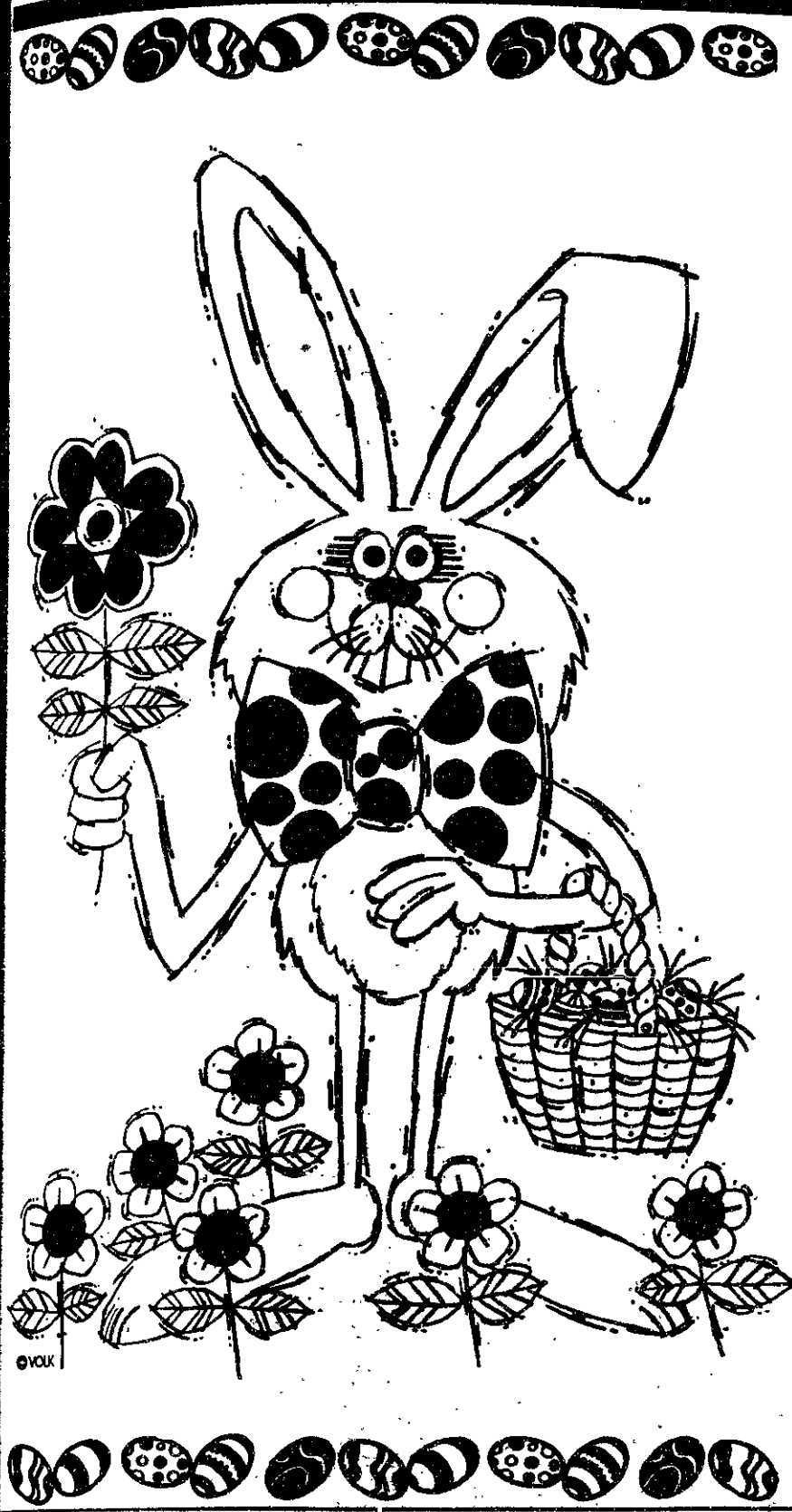
The dinner was sensational. So was the check. The problem is, the theater tickets that you insisted on buying broke your whole budget. Enough to declare bankruptcy by the time the coffee arrived.

A nudge under the table and a certain destitute look in the eye were enough to produce the spontaneous loan only a good friend is ready to make.

How do you repay him? First the cash, then the only beer equal to his generosity: Löwenbräu.



Löwenbräu. Here's to good friends.



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Because of our continued growth, our Rapid Thermal Process Product Team seeks an additional Engineer to work on process development. Working as liaison with both Senior Process Scientists and Design Engineers, you will help develop, evaluate and translate process requirements for our products. Highly interdisciplinary in nature, this position offers exposure to physics, material science, machine design and semi-conductor process work. You will be involved with customers, providing technical marketing and product support, interact with the Semiconductor R&D community, have the opportunity to publish, and be involved with a dynamic, cohesive R&D project team. To qualify you should have a B.S., M.S., or PhD in Physics, Materials, Chem/Chem Engineering or Electrical Engineering, hands on semiconductor lab or industry experience and good communications skills.

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A special surprise package of cartoons from the early years of television. 30 min.

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Kennedy elected Taylor/Burton romance. Khrushchev in space. Kennedy meets Khrushchev. 30 min.

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ARENT SOURCE
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"Jump Start" from Tim Roper of Univ. of Texas, Austin and from Pointe Park College, Pa. "Variance" 30 min.

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sports

Baseball team drops home opener to Suffolk Rams, 4-3, in tenth inning

The baseball team, coming off of a 1-6 Western road trip, opened its home season with a 4-3 loss in 10 innings to the Suffolk Rams. The Rams remain undefeated at 6-0.

Doug MacLeod '86 took the loss in relief, despite giving up just three hits and one run in four innings of work. MacLeod was the only winning pitcher on the road trip, working five innings in MIT's 11-2 mauling of Caltech.

In the other road trip games, the Engineers lost to Cal Lutheran, 16-13, to Pomona-Pitzer, 13-6, to Pacific University of Oregon, 10-6, to Biola, 10-4, and to Occidental, 9-3 and 4-3.

John Tantillo '85 proved to be a bright spot on the trip, batting .400. Vinnie Martinelli '85 was right behind him at .360.

The squad took on Babson College yesterday afternoon and continues its homestand with a game this afternoon against Thomas College and tomorrow afternoon against Boston University.

Suffolk 4, MIT 3

Suffolk		MIT	
ab	r h bi	ab	r h bi
Daghtrey ss	4 1 1 0	Koh lf	4 0 0 0
Clancy 3b	5 1 2 1	Martinelli rf	5 0 0 1
Chabre dh	3 0 0 0	Hoeh 1b	4 0 1 1
Stenson 1b	5 0 1 1	DiChristna p	2 1 0 0
Lordan cf	5 0 1 0	Hoffman 3b	4 0 0 0
Turilli 2b	5 1 2 0	Sullivan c	2 0 1 0
Villani c	5 1 2 0	Tantillo cf	3 0 0 0
Coviello lf	3 0 1 1	MacLeod p	2 0 1 0
Duffy rf	3 0 0 0	Simon 3b	2 1 0 0
Bennet rf	0 0 0 0	Zermani ss	0 0 0 0
Vigliatti rf	2 0 1 1	Poole c	0 0 0 0
Marshall p	0 0 0 0	Fern cf	1 0 1 0
Ryan p	0 0 0 0	MacLeod p	0 0 0 0
		Zermani ss	2 1 1 0
		Csamnto ph	1 0 0 0
		Mountz 2b	1 0 0 0

Totals	40	4	11	4	Totals	37	3	5	2
Suffolk	1	0	0	1	1	0	0	0	1
MIT	0	1	0	0	0	2	0	0	0

E—Hoffman, Zermani, Clancy 2. DP—Suffolk 1. LOB—Suffolk 12, MIT 4. 2B—Sullivan, Daughtery, Stenson, Lordan, Turilli. HR—Clancy. SB—Daughtery 2, Turilli, Villani 2, Coviello. S—Koh, MacLeod. SF—Chabre.

Suffolk	IP	H	R	ER	BB	SO
Marshall	8	4	3	2	4	4
Ryan (W)	2	1	0	0	0	1
MIT						
Soltys	5	3	3	3	1	3
DiChristina	1	2	0	0	1	0
MacLeod (L)	4	3	1	1	2	2

T-3:15. A-8.

Golf opens with a 55-stroke win

The golf team opened the spring half of its split season with a 55-stroke win over visiting Clark University Tuesday afternoon. The Engineers raised their record to 7-1-1 with the 395-450 victory.

The golfers will be in action again this afternoon when they host WPI and the US Coast Guard Academy at 1pm.

Women's tennis continues to win

The women's tennis team's winning ways seem to have survived the winter intact. The squad opened the spring with a 5-4 win over Salem State Tuesday, raising MIT's overall record to 11-1.

Sailors compete in pair of regattas

The men's sailing team traveled to New York City March 24 and finished 12th in the Owen Trophy hosted by New York Maritime.

The squad returned to Boston Sunday and finished 11th in Harvard's Dinghy Club Cup regatta.

Women's crew hosts regatta

The women's crew team opened its season two weekends ago, finishing second in a three-way regatta with Connecticut College and the University of Rhode Island.

Connecticut College won the event with a time of 7:12.0 over the 2000-meter course. MIT's time was 7:19.0.

In the lightweight eight race, Radcliffe "A" finished first, followed by Connecticut College, Radcliffe "B" and MIT.

The MIT novice boats fared no better, finishing third and fourth behind boats from Connecticut College and URI.

Lacrosse falls, 14-5

The men's lacrosse team dropped its spring opener, Tuesday, losing 14-5 to host Westfield State. The squad will visit Nichols tomorrow, and return home Tuesday to take on Babson College.



Tech photo by Frank P. Modica
Paul Soltys '86 pitches last Tuesday against the Suffolk Rams. MIT lost 4-3 in 10 innings.

NOTICE!

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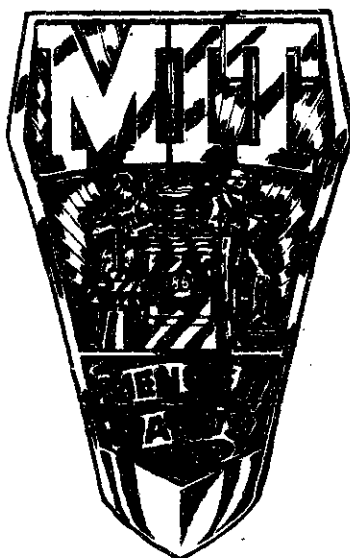
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