

Limits for 1985 unlikely; faculty to vote on CEP plan

By Mathews Cherian
and Thomas T. Huang

The Committee on Undergraduate Admissions and Financial Aid (CUAFA) decided yesterday that if the MIT faculty approves a plan to restrict admitted students from the Department of Electrical Engineering and Computer Science (EECS), the committee will "most likely not" implement it for the Class of 1989, according to a press release.

CUAFA Chairman Kenneth R. Manning said the decision will be presented to the MIT faculty before the faculty votes on the Committee on Educational Policy (CEP) contingency plan.

"We looked at present enrollment and came to a decision that the enrollment is not sufficiently high to impose restrictions," he said.

Manning warned that "the problem still exists. Enrollment has to go down even further."

Upon faculty approval, CUAFA would have the power to enact restrictions if enrollment in EECS does not decrease significantly within the next three years. The CEP has set the following benchmark levels in its report: EECS should only enroll 350 sophomores in 1984, 310 sophomores in 1985, and finally 270 by 1986.

The committee, "assessing EECS enrollments in the context of the benchmark levels and other available information, would decide on behalf of the Faculty whether the restrictive action . . .

should be implemented," the CEP report stated. "The tentative choices made by freshmen in early May can serve as a guide in this decision."

Undergraduate President David M. Libby '85 said, "The decision today is a welcome one, but not unexpected. The target [benchmark level] is 350 — that goal is reasonable to meet. The next two levels are another story."

The number of sophomores enrolled in EECS is 356, according to the official fifth week count released by the Registrar's Office yesterday. The CEP set a benchmark level of 350 students this year.

The CEP report stated that "restricted admissions could be initiated only for the class entering MIT in 1985, 1986, or in 1987, and, if restricted admissions is initiated for one of these classes, such restrictions could be applied to no more than the subsequent two entering classes without further vote by the Faculty."

The plan arose from serious concerns about the continuing overenrollment problem in EECS in recent years, according to Arthur C. Smith, chairman of the faculty.

"This [plan] is a last resort measure," Smith said. "Only if all other efforts to reduce enrollment in EECS fail, will we implement it. We want to try all positive ends first." The faculty views the restrictions on enrollment as an "evil," he added.

"The policy itself is a reason-

able one," Libby said. "Under the circumstances . . . we're in this mess and the plan is the lesser of evils. It has to be done."

The policy, however, would make changes which go against the MIT philosophy that freshmen should be free to choose their majors, Libby said.

He hopes the Admissions Office will distribute the restrictions, if any, over the entire class. If instead the office chose to restrict the bottom quarter of the class, those students would be perceived as "second-class citizens," Libby said.

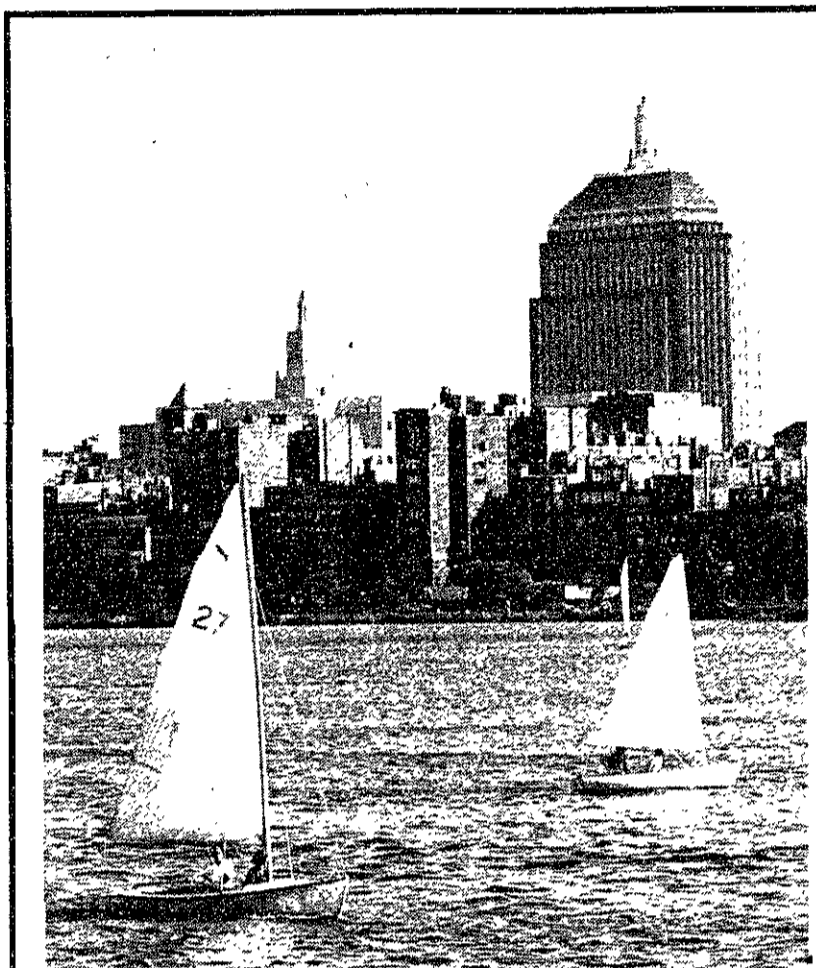
The Admissions Office must make sure to communicate the restriction policy to applicants if approved, he said.

CUAFA will be working with a number of constituencies at the Institute to develop ways to address the enrollment problem. Manning plans for closer ties between the Admissions Office and the departments in the Institute. The main goal is to get "students to go into other departments and programs that might be underutilized," Manning said.

Sophomore enrollment in VI decreases to 356 students

By Mathews Cherian

The Department of Electrical Engineering and Computer Science presently has 356 sophomores, according to the Registrar's Office fifth-week enrollment count.



Tech photo by Steven Wheatman

The MIT sailing team competed in four regattas this past weekend. For details and complete sports results, see page 23.

Finals week policy changes

By Charles R. Jankowski

The changes in the final examination schedule approved by the faculty last February will go into effect this term. The changes are designed to alleviate end-of-term student pressures, according to Arthur C. Smith, chairman of the faculty.

The first of two changes, which Smith outlined in a letter to students last month, involves ending all classes on Thursday, rather than Friday, the traditional last day of classes. This will extend the reading period from two to three days.

The last day of classes this term is Dec. 13. The reading peri-

od is Dec. 14-17 and the final exam period is Dec. 18-21.

The second change involves the limitation of exams and assignments during the last week of classes. Each subject which has a final examination will be prohibited from giving an test or requiring an assignment during the last week of classes.

Classes without final examinations will now be allowed either an assignment or a one hour quiz during the last week of classes, as long as the quiz is during a regularly scheduled class period.

Professors may not schedule examinations or assignments after the last day of a class, ex-

cept for final examinations scheduled through the Registrar's Office.

These changes were implemented to "let the term end in a little more graceful manner," Smith said in an interview last week.

"We would expect the faculty to adhere to [the changes]," Smith said. "I am ready and willing to resolve any difficulties" in the event that professors violate the guidelines, he added.

Smith said he sent a letter to the faculty to remind them of the planned changes.

The Committee on Educational Policy originally proposed the changes after a student survey in the fall of 1982 revealed excessive pressures on students during final examination week, Smith said.

"We had felt that the schedule caused more pressure than we wanted to see," Smith said. "Very few people were against [the schedule changes]" at the faculty meeting, he noted, although some faculty members were "somewhat reluctant to change."

Smith said the new reading period will "not [make] a big difference," but rather will give students a chance "to stop doing what [they] are doing and pull their thoughts together for final exams."

"We don't want to make [the reading period] too long," Smith said, noting that a two week reading period, similar to Harvard University's, would be "educationally inappropriate."

Although the changes were designed to relieve student pressure, Smith said, "people who put things off will still have a lot of work to do."

Sophomore enrollment in EECS has decreased from last year and is six above the threshold of 350 students required by the Committee on Educational Policy's proposal to restrict EECS majors.

Arthur C. Smith, chairman of the faculty, said this number is "a good deal lower than expected. We had 380 at this time last year, and we had projections of 400 to 420 sophomores this year."

Joel Moses, PhD '67, head of the EECS department, attributed the sizable decline partially to the fact that no transfer students were allowed to enroll in EECS. "That dropped 15 or 20 right off the bat," he said.

Another reason for the decline is that several other departments have aggressively promoted new programs which could appeal to students interested in computers, Moses said. New programs have been recently developed in the Sloan School of Management and the Departments of Cognitive Science and Materials Sciences and Engineering.

Proposed drinking age could influence policy

By Edward E. Whang

(Editor's note: This is the second in a series examining alcohol use on campus.)

MIT policy on alcohol will have to change when Massachusetts raises its drinking age to 21 next year, according to Undergraduate Association President David M. Libby '85.

MIT will need to reassess its alcohol regulations: "By the end of the year, we need a comprehensive policy on alcohol," Libby said.

Since half of the undergraduate student body can legally drink at present, they can be trusted to use their judgment, Libby said. MIT will need a new policy, however, when the new drinking age permits only a fourth of the undergraduates to legally drink, he said.

"Under the new legal age, mi-

The third-day count of majors released by the Registrar's Office reports that enrollments in those three departments is up compared with last year, but Smith said it is still too early to tell whether the increase can be attributed to the new programs.

The Department of Mathematics will offer a new computer science option within the next year to attract possible EECS majors, Smith said. In addition, MIT is considering a computer science option for the Physics Department.

The faculty has also actively tried to help prepare students to make the correct career choices, Smith said. Literature has been published about the experiences of MIT alumni who say majors are hardly ever related to eventual careers.

Provost Francis E. Lowe has sent letters to advisors urging them to take more active roles in their students' choice of majors.

Associate Registrar Ronald Smith said the publicity associat-

(Please turn to page 2)



Tech photo by Bill Flowers.

An MIT Microcomputer Center consultant presents a Digital Equipment Corporation microcomputer the center's grand opening yesterday. The center sells personal computers from various companies at a discount and is located in room 11-209.

inside

Once more, with feeling. The complete text of the CEP proposal. Page 11.

Number of sophomores in EECS is down from last year

ed with the EECS enrollment problem might be another factor in the decreased enrollment.

From 1936 to 1976, the EECS department had approximately 200 students enrolled. Since 1976, though, the enrollment has increased by 20 to 30 students annually, resulting in a doubling of department size by last year.

"We don't know where to go if they do reject us," said Smith. "We are going one step at a time. It is a long and involved process."

The EECS department has tried to alleviate the problem by bringing in more visiting faculty and people from outside departments as well as outside companies, but "the option of the department growing to meet the demand won't work," Smith said.

The department has neither the capital nor the space to expand. "Besides, we don't want MIT to become the Massachusetts Institute of Electrical Engineers," he said.

The great number of students has placed a inordinate load on the faculty in the EECS department. "The faculty is being worn down and is feeling restricted by having to deal with so many students," Arthur C. Smith said.

"Everyone is feeling overloaded," he said. "They are finding that they have no time to write new textbooks, develop new curricula, and do research. Just as important is that many cannot take faculty leave."

New drinking age may affect policy; a dry rush is possible

ness, an advisory group to the Office of the Dean for Student Affairs.

MIT may impose stricter measures for campus events where alcohol is served, she said. One possibility is the use of wristbands, rather than hand stamps at parties, for marking those of drinking age.

Scheidler also said that, in the future, student pubs may place less emphasis on the consumption of alcohol as a central activity.

"The Junior-Senior Pub may no longer exist [in the years to come]," Scheidler said. "Now students go for drinking and the band. It might be changed so that students who can't drink won't feel left out."

Dormitory Council Chairman

David C. Sherman, also a member of the alcohol committee, said the new drinking age could lead to an alcohol-free Rush Week. "Many fraternity nationals are pushing their chapters to have dry rushes," he said.

"I don't see MIT going to a dry rush next year," Scheidler said "but alcohol-related rush violations will probably be dealt with more severely. Also, hard liquor may not be allowed during rush week."

The current Dean's Office policy does not impose regulations on fraternity use of alcohol, according to William T. Maimone '84, InterFraternity Conference chairman. "It isn't MIT's policy to be babysitting," he said.

Fraternities are autonomous and independent of MIT, while MIT is directly responsible for

dormitories, Maimone said. Dormitory floor parties, like fraternity parties, do not require ODSA approval, he said.

Sherman said, "I don't find it unfair at all that dormitories are under ODSA alcohol regulations; dorms are tied to MIT so there are stricter rules."

"The ODSA alcohol policy has worked very smoothly," he said. "There haven't been any problems yet. However, with the new drinking age, some changes will need to be made."

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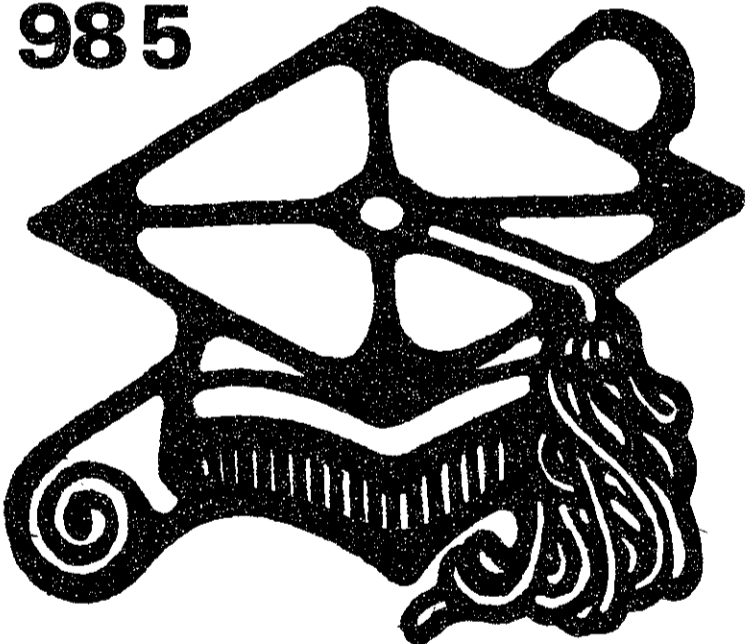
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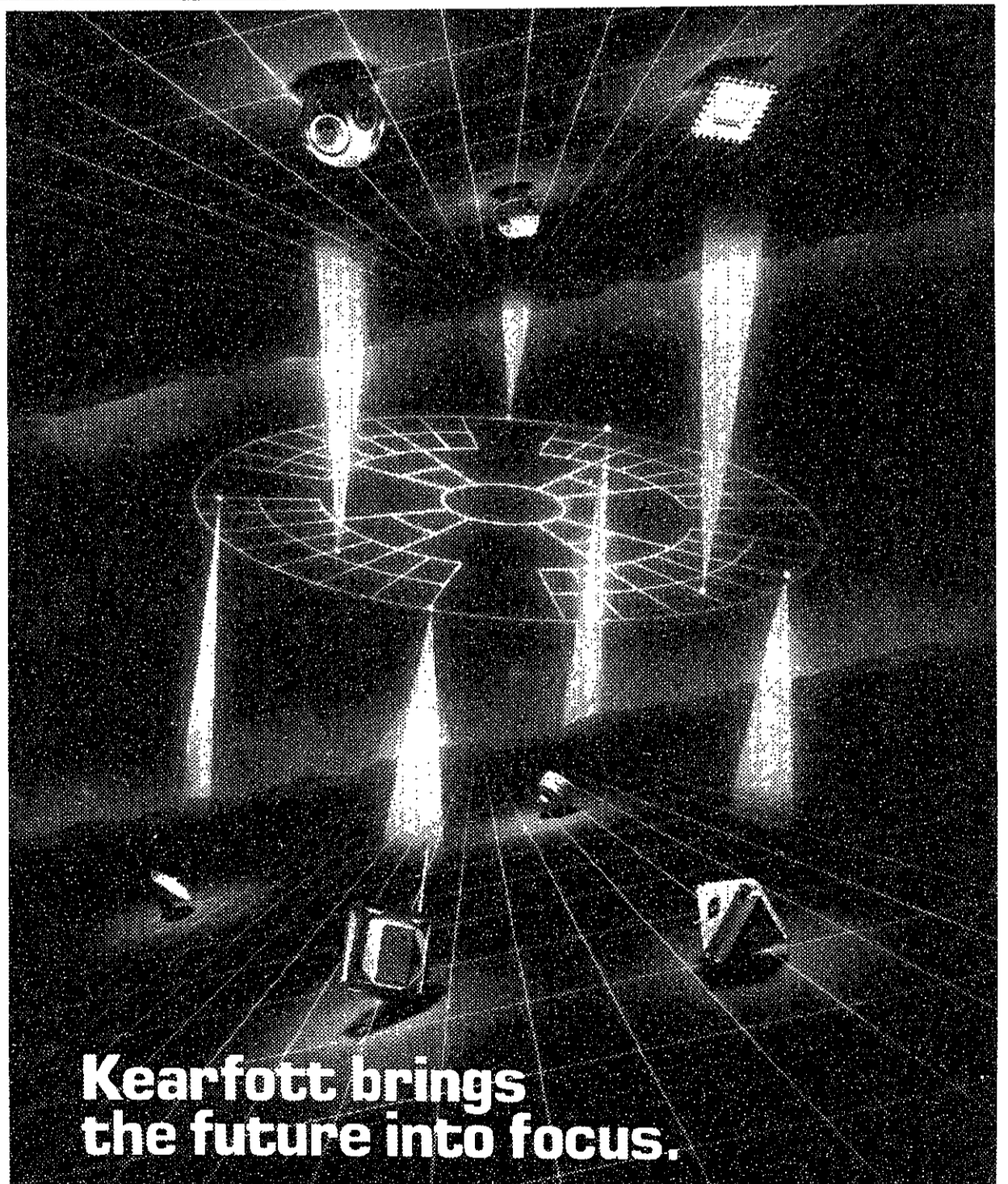
The Commencement Committee invites recommendations for speakers and/or topic areas from all members of the MIT Community for a Commencement speaker at MIT's Commencement on Tuesday 3 June 1985. The Commencement speaker should be one who will be able to address topics of relevance to MIT. Written nominations and topic areas may be dropped off at the following locations:

The Undergraduate Association Office — Room W20-401

The Graduate Student Council Office — Room 50-222

The Information Center — Room 7-121

Deadline for nominations and suggestions is 17 October. In addition, suggestions may be filed with any member of the speaker subcommittee of the Commencement Committee. They are: John H. Slater, Chairman; Donald R.F. Harleman, Ex-officio and Chairman of the Commencement Committee; Michael P. Candan, Senior Class President; William J. Hecht, Executive Vice President of the MIT Alumni Association; Rene J. LeClaire, President of the Graduate Student Council; Walter L. Milne, Assistant to the Chairman of the Corporation and Assistant to the President; and Mary L. Morrissey, Executive Officer for Commencement. The speaker subcommittee will review all suggestions and make a short list for submission to President Gray. The list will not be made public nor will it be rank ordered. The responsibility and authority for selecting a Commencement speaker and issuing an invitation will rest with President Gray.



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news roundup

World

Salvadoran peace talks begin — El Salvadoran President Jose Napoleon Duarte met for the first time yesterday for 6½ hours with Guillermo Manuel Ungo and Ruben Zamora, the two top officials of the leftist rebel opposition, in hopes of ending that nation's civil war. Both sides say an agreement is not imminent, but they will meet again next month. Duarte, reportedly a target of the so-called "death squads," announced a plan offering amnesty to guerrillas who cease their fighting against the government.

IRA bomb blasts Tory convention — The Irish Republican Army claimed responsibility for the Friday morning bombing of the hotel in Brighton, England housing Britain's Conservative Party conference. Prime Minister Margaret Thatcher escaped injury as the bomb destroyed her hotel suite moments after she left it. Four persons were killed and 32 were injured in the bombing, including several party officials.

Soviets deploy cruise missiles — The Soviet Union announced Saturday that it has begun deploying long-range cruise missiles aboard bombers and submarines in response to recent US weapons deployments in Western Europe. Pentagon officials believe the new missiles are capable of reaching the continental United States, unlike the shorter-range land-based missiles deployed by the Soviets in August.

Nation

Mondale gains in polls — With three weeks to go before Election Day, Democratic presidential nominee Walter F. Mondale has pulled to within 12 percentage points of President Ronald Reagan, shaving six points from the lead indicated in earlier polls. The Harris Survey, conducted immediately after the presidential debate but before the vice presidential debate, shows Reagan with a 54 percent lead to Mondale's 42 percent.

UAW, Ford reach agreement — Negotiators for the United Auto Workers and the Ford Motor Company agreed on a new labor contract Sunday. Details of the pact, which now goes to the union's rank-and-file for ratification, were not released, but they are believed to be similar to the accord reached last month by the UAW and General Motors. Announcement of ratification of the UAW-GM contract is expected today.

Local

Mistrial declared in Piro case — US District Judge Walter J. Skinner declared a mistrial in the extortion and conspiracy case against state Rep. Vincent J. Piro when the jury announced Saturday it could not reach a verdict after 20 hours of deliberation. The Somerville legislator, who could go to jail for 40 years if convicted, is accused of accepting \$5000 in bribes from an undercover FBI agent to influence legislation; Piro claims he was entrapped. Skinner said he would reschedule a new trial "when the dust clears."

Sports

Tigers take Fall Classic — The Detroit Tigers beat the San Diego Padres 8-4 Sunday, winning the World Series four games to one. Tigers' shortstop Alan Trammell was named series Most Valuable Player based on his 9-for-20 batting (5-for-6 with runners in scoring position), two home runs, five runs scored and six runs batted in. Tigers' manager Sparky Anderson became the first to win the Series in both leagues.

Texas, Oklahoma kiss their sisters — The Texas Longhorns and the Oklahoma Sooners, ranked the nation's number one and number two college football teams last week, played to a 15-15 tie Saturday in a driving downpour. Texas salvaged the tie by kicking a field goal on the last play of the game. The Washington Huskies, ranked third last week, move up to the top position in this week's poll.

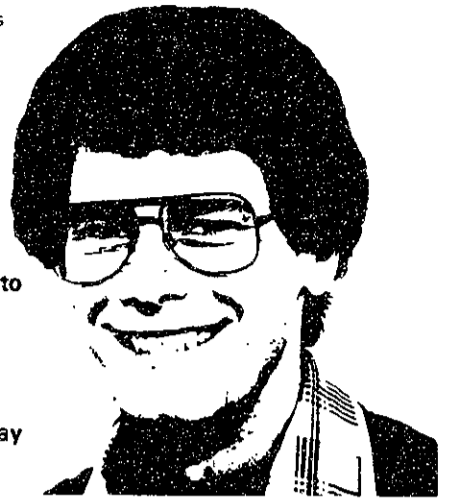
Weather

Goodbye, little Jo — A high pressure system has driven Hurricane Josephine out to sea, leaving us with sunny, clear skies and cool and breezy weather. Highs around 64-68, lows around 44-48 through Friday.
Drew Blakeman

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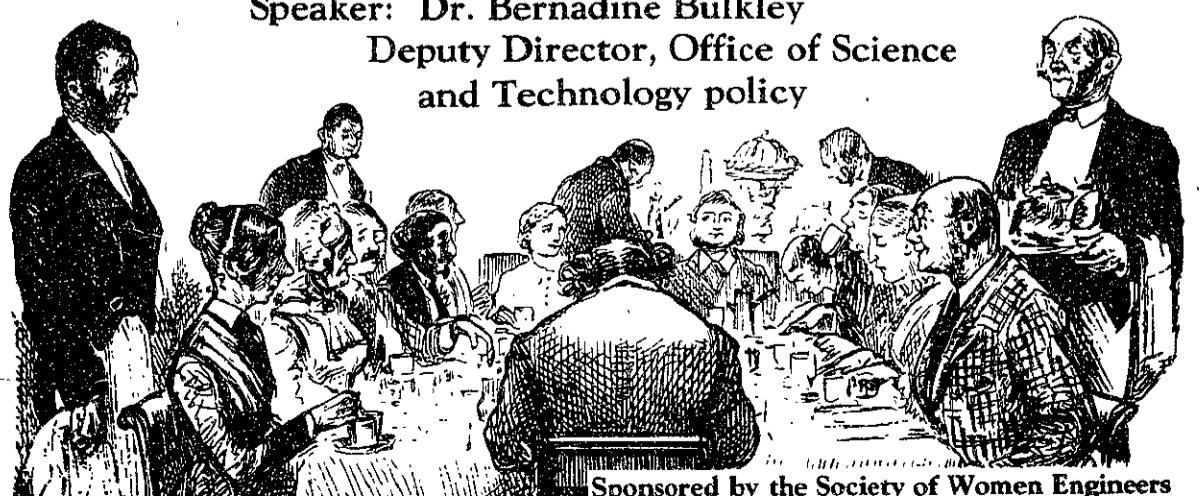
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opinion

Editorial

The faculty should approve CEP plan

The MIT faculty faces a tightrope decision tomorrow. It will vote to approve or reject the Committee on Educational Policy's plan to restrict admitted students from the Department of Electrical Engineering and Computer Science. MIT will face potential dangers either way the decision falls.

The Committee on Undergraduate Admissions and Financial Aid (CUAFA) indicated yesterday that should the faculty empower the committee to place the restrictions on the Class of 1989, it would "most likely not" do so.

This decision allows the faculty to approve the contingency plan without confronting immediate results. The CUAFA would watch enrollment levels over the next three years and initiate the restrictions any time during those three years should EECS fail to stay within certain enrollment levels. The restrictions could last for two subsequent classes without a faculty vote.

The CEP restriction plan sets goals for EECS enrollment over the next three years. The benchmark levels — 350 sophomores this fall, 310 next fall, and 270 in 1987 — are conditions for enacting the restrictions.

The CUAFA indicated that this year's sophomore enrollment of 356 students is close enough to the target level — that is why it probably will not implement the plan this year.

By its decision, CUAFA has shown it will not enact the plan on whim. The decision boils down to this: Could EECS survive with enrollments higher than the benchmarks while waiting for long-term solutions?

Although enrollment has dipped this year, it will probably not decrease to 310 students next year. The plan, as a temporary measure, would give MIT the time it needs to employ long-run solutions, the most important of which is to change its "electrical engineering" image to the outside world.

The MIT faculty should vote to approve the contingency plan. However, the faculty must amend the proposal to establish an annual review by the full faculty. That way, if the enrollment next year falls below the stated threshold, the entire structure can be efficiently removed.

The amendment would also limit the power of the CUAFA. This is important, because, by approving the original plan, the faculty would hand the CUAFA the power to restrict the options of the next five classes. The faculty would in effect restrict its own options.

Faculty members would be involved in the restriction process when reading the admissions folders, but they would have no power to abolish the proposed restrictive system if enrollment declines naturally unless they amend the proposal.

MIT will face some dangers no matter what decision the faculty makes. But perhaps the Institute is in this situation because it has waited too long to act. The MIT faculty must act now.



"Junior's been watching the president again... Junior says he'll accept the responsibility, but not the blame."

Column/Tony Zamparutti

CEP proposal would restrict student academic freedom

When I returned two months ago from a year of study in Italy, I was surprised by how familiar things at MIT seemed. My fraternity looked pretty much the same, and so did *The Tech* offices. Some things were a bit different — a few more MIT officials had left or been fired, another I. M. Pei '40 building has risen, and the reporters I trained now edit my articles. And the Committee on Educational Policy has another curious proposal to make the task of being a student here more difficult.

Two years ago the faculty decided that second-semester freshmen did not receive enough useful evaluation on their work, so put them as close to grades as possible without making the phrase "freshman pass/fail" in admissions brochures a complete lie. Now the Powers That Be have decided something must be done about the popularity of the Department of Electrical Engineering and Computer Science — and a few more restrictions on undergraduates may be the way to do it.

If too many students enrolled in Course VI this year, the faculty will decide tomorrow whether or not some lucky high school seniors now sweating about their MIT application will be "offered admission without the option of majoring in Course VI," as the CEP proposal puts it. Up to one quarter of admitted students would be honored in this way.

At first glance, this would certainly be a pragmatic solution to a clear problem at MIT: too many students major in Electrical Engineering. A pragmatic solution, that is, if the faculty is not interested in educational values, academic freedom, or the students' interests.

MIT professors and administrators fight government restrictions on their work and on the free flow of scientific information with a principle called "academic freedom"; for example, a recent letter from MIT and other universities protested (and helped remove) Defense Department restrictions on so-called "gray area" unclassified research.

I think MIT students are also entitled to academic freedom, and telling some of them what they may or may not choose as their major is definitely restricting it. It would be equally unfair, and just as silly, to tell some applicants they can come to MIT and earn its prestigious under-

graduate degree — as long as they agree never to take a French class or use the swimming pool.

The freedom to choose has been an important feature of education at MIT, as it is at other prestigious universities, and placing arbitrary restrictions on students will cheapen the both the quality of that education and the Institute itself. MIT professors argue that encroachment on their academic freedom hurts the progress and quality of science; similarly the proposed CEP restriction on students would hurt the quality of MIT's education.

The committee, in coming up with this plan, also seems to have thought little about people. Their plan will reduce a variable from 380, which they say is too high, to 270, which would be all right. Unfortunately, what they will be restricting is not numbers, but students. They seem to have thought little about the effects of their plan on individuals — in fact, the CEP proposal sent to the faculty does not consider this aspect at all.

Restricting a high school student's college major — something that could influence his first job, his career, and possibly the general direction of his life — is not a light step. Of course, if the student is set on majoring in electrical engineering or computer science, he could go elsewhere, but it seems silly to deter bright, intelligent people from coming here, particularly those who have their hearts set on it. Are those high school students to tell their friends, "Well, I sort of got into MIT"?

Perhaps the faculty may wish to consider how their sons or daughters would feel if they were admitted to the college of their choice, and then told that they could not major in whatever they wished.

The people being affected are, of course, not yet in college and their interests are quite likely to change before they pick their major. Some now determined to become computer scientists will change their minds drastically, and others previously uninterested in electrical engineering will become fascinated by it. Is it right to limit these students who are unaware of what it may mean to them?

The sly part of this plan is that the people with a most direct interest in it — the ones who will have to make the tough choices — are high school students who have yet to be admitted and have

no way of protesting. If they choose MIT, they must tacitly accept the restriction, while if they do not like it, they have to go elsewhere.

If MIT applicants yearning to be Course VI majors want to get ahead, they may like to know how the lucky "restricted" students will be chosen. Apparently, their scores, essays, and interviews will not have any effect, but under the current proposal, "information on career interests may be used" in making the decisions. Students most interested in electrical engineering would, ironically, be the most likely to be barred. Such a method would force these high school seniors into a simple strategy to protect their interests: lie about themselves and their college intentions.

This curious outcome is just one of the strange things the CEP proposal would have MIT and its students do. For a university with the prestige MIT has (or would like to have) this proposal to restrict its admitted students seems, well, pretty inelegant.

I am not saying that the problem at base, overcrowding in Course VI, should be ignored. A number of intelligent things are already being done, such as creating programs similar to Course VI in other departments (for instance, the Management Information Systems program in the Sloan School of Management).

I think these efforts are getting at the basic problem facing EECS — it's very popular, and telling people they cannot major in it will not make it less so. In a certain sense, Course VI is being undone by the very success of its work. It is the field a great number of intelligent, math-and-science oriented high school students want to study.

If MIT does not want these students, perhaps it should try to become a less technically oriented place — maybe by boosting its Architecture and Humanities Schools and by seeking less technically-oriented students. Or the Institute can continue efforts to create alternative computer majors, to let undergraduates know they could achieve fulfillment and good jobs from completely different departments, and to bite the bullet and try harder to accommodate Course VI majors.

Neither solution would be easy or cheap, but a university like MIT, not to mention its students, deserves something more than a quick fix.

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opinion

Column/Joseph J. Romm

Bad effects of CEP plan will outlast the positive

To paraphrase Shakespeare, the evil that committees do lives after them, the good is oft interred with their bones. So let it be with the Committee on Educational Proposal (CEP), of which I am a member. The CEP has an honorable plan to restrict admissions to Course VI, and the faculty will vote on it Wednesday.

The CEP plan calls for the Committee on Undergraduate Admissions and Financial Aid (CUAFA) to decide if restrictions should be imposed on incoming freshmen, based on whether sophomore enrollment in Course VI is declining according to the following program: 350 sophomores as of Fall 1984, 310 sophomores as of Fall 1985, and 270 sophomores (the steady-state level) as of Fall 1986.

The restriction itself would permit a fraction of the incoming class to be admitted to MIT with the provision that they could not major in Course VI. The CEP proposal leaves the decision of which freshmen would be selected for restricted admission to CUAFA and the Admissions Office, although the proposal offers numerous general principles for the selection process. Perhaps the most important of these principles is "Another major objective is to ensure that students from throughout the admissions matrix receive restricted admissions." This is an attempt to avoid having restricted students selected from the bottom of the admitted class, reinforcing their image as second class citizens of the MIT community.

I say "reinforcing" because the CEP proposal inevitably divides the admitted freshmen into two classes of differing status, with essentially no opportunity for the restricted class to enter the unrestricted class. The evils of such a two-class system will irrevocably change the character of MIT.

The one bright spot on the horizon is that it appears that sophomore enrollment in Course VI has been contained to a level that will allow CUAFA to avoid imposing any restrictions on the next incoming class, should the faculty approve the CEP plan.

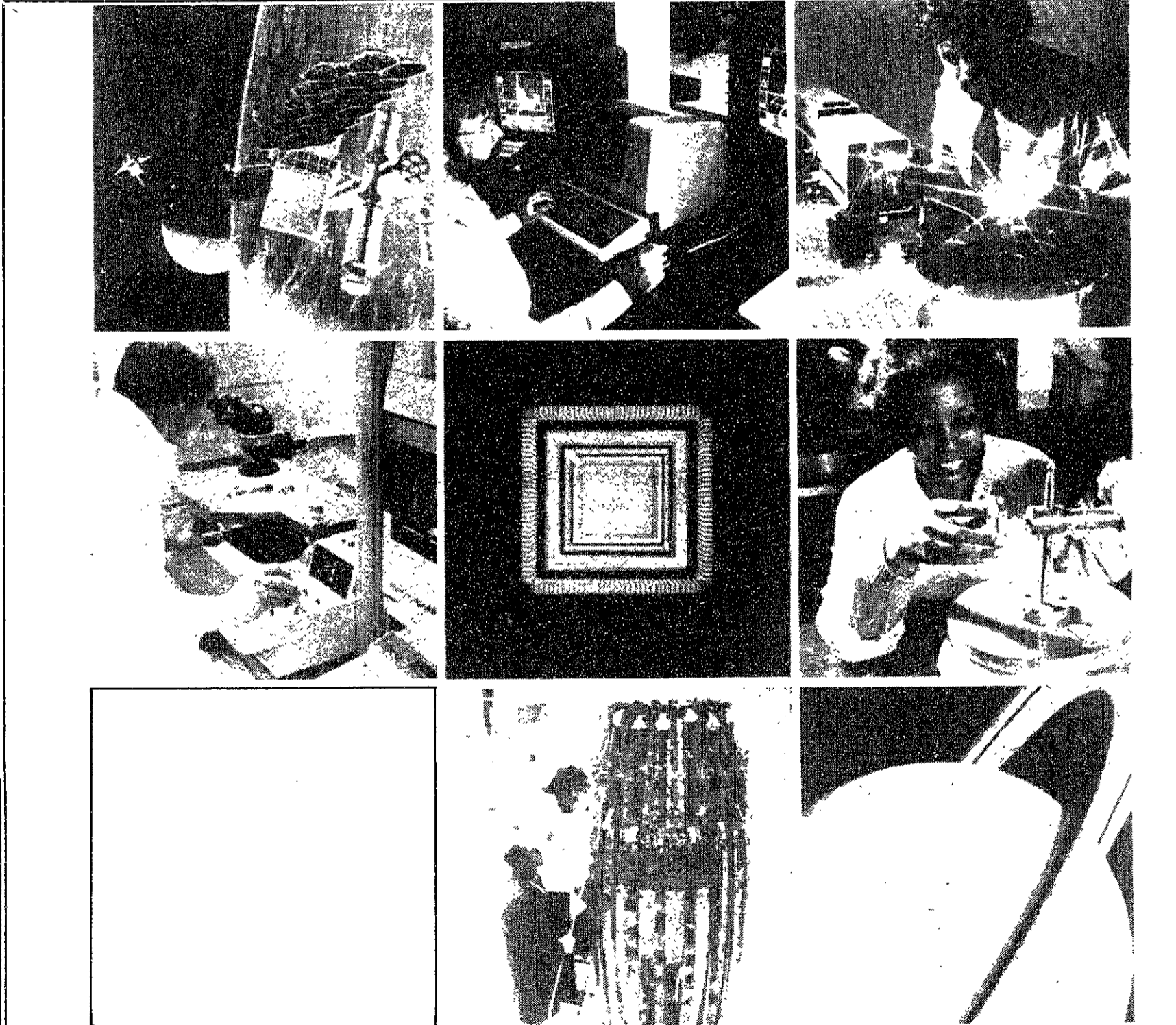
Does this mean that the faculty should not approve the plan? No — the problem has not gone away, it has just been mitigated for a year because of a massive

effort by the Admissions Office and by faculty and students in and out of Course VI.

Does this mean that the Admissions Office together with the rest of the MIT community can eventually solve the Course VI problem? Yes — if they could not, then the problem could safely be called unsolvable.

Does *this* mean that the faculty need not approve the plan? Maybe — the plan is evil; it represents a threat to punish MIT's future student body if the present one cannot control its insatiable lust for electrical engineering and computer science. On the other hand, fear of punishment is a great motivating force, and who can say that such fear is not exactly the kind of pressure the MIT community needs to keep pushing it in the direction of fewer and fewer Course VI majors?

Then again, to quote the Bard one last time, sometimes it is better to bear those ills we have, than fly to others that we know not of.



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ANSWERS: (1) F (2) T

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opinion

feedback

Must differentiate types of equality

To the Editor:

Discrimination appears to be one of the new "hot topics." The debate started with a letter about the disbanding of the Office of Minority Education, but has recently been expanded to discrimination in general in James Abernathy's letter to the *The Tech* [October 5].

I would like to relate an experience I had earlier this year. I used to live in a rural area, and the opportunities for technical jobs were very limited. Last summer, one of the local colleges sponsored a summer jobs program, open to two students on a competitive basis. The particulars of the program are not important. It was the only chance I had to find a summer job that had some relation to what I would be studying this year.

My application, however, was not even considered. I was turned down because I am of the wrong race, the wrong sex, and the wrong economic bracket. Obviously, I was discriminated against.

Before going on, I should mention that I am a white male from an upper middle-class family. Aha! It's no longer a case of discrimination, only an affirmative action program. Or is it?

This is not a complaint about "reverse discrimination." I do not believe that this is the case. Nor do I advocate "color blindness." I know discrimination exists, and this fact must be recognized before something can be done about it.

My purpose in writing this let-

ter is to point out the difference between equality of opportunity and equality of result, a distinction which has been blurred in recent letters to *The Tech*. Equality of opportunity simply means that everyone has a fair and equal chance. Everyone, not just a select few. Most people would agree that this is "the American Way."

Equality of result is a more extreme doctrine. Not only must a program be non-discriminatory, but it must also insure that some minority group is represented to a certain extent. In other words, somebody must be turned down so this requirement can be met, even if that person is the most qualified, deserving, etc. This is hardly the American ideal of equal representation for all.

Any solution for discrimination, then, must consider the rights of everyone involved, not just of those being discriminated against. We all have our rights. Equality of opportunity does not deny that minorities have special needs and problems. If anything, it affirms this fact. Programs set up under this doctrine are most beneficial to all involved; programs set up under the doctrine of equality of result help some and harm others.

Hopefully, the debate will not end here. Discrimination still exists. There are many solutions, and they should all be heard. They probably won't be liked by everyone. But at least now there is a way of evaluating these solutions which focuses on political and social realities, rather than pure emotion.

Barry J. Berenberg '88

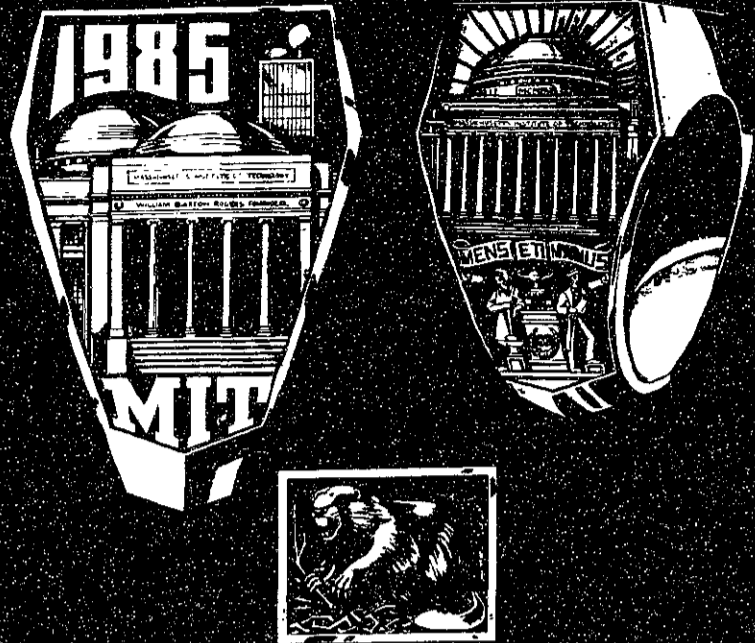
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Stay at a top-class hotel for just \$69? It's true. We've slashed the regular weekday rate at Stouffer's Bedford Glen Hotel a whopping 40% on weekends. That's great news for grads expecting out-of-town family and friends. Great location, too, just 30 minutes from Boston. This Four-Star/Four-Diamond hotel has great facilities, including year-round tennis and swimming. Complimentary HBO, morning coffee and newspaper. Casual or elegant dining. Now, stay first class any Friday, Saturday or Sunday (subject to availabilities). For reservations, call your Travel Agent or (617) 275-5500. Or toll-free 800-HOTELS 1.

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Thursday, October 18, 1984 9:30 pm

opinion

Column/Charles P. Brown

CAP kicks out 120 students each year

After its end-of-term grade review meetings, the CAP sends letters to students whose cases they have deferred, with copies to their advisors. These letters inform students that their cases will be discussed at a "deferred action meeting." The students are encouraged to get in touch with their faculty advisor as soon as possible to discuss their situation. If they wish, students can ask certain MIT community members, such as faculty residents or housemasters, to attend the deferred action meeting.

The deferred action meeting runs all day, and advisors appear before the CAP to discuss their advisees, and to recommend action on behalf of their department. The committee then renders a decision.

If a student has been given a "soft" deferral, the Committee on Academic Policy is generally trying to find out why the student had problems, and will, at worst, give the student a warning.

A "hard" deferral implies the student is in serious academic trouble, and that the CAP is considering asking the student to withdraw.

The CAP listens to advice from the student's advisor and from representatives from student services and any persons the student may have asked to be allowed to support him or her, and then will make a decision, which can range from no action to a required withdrawal, with readmission specified as being by permission of the Office of the Dean for Student Affairs or by petition to the CAP.

A summary of CAP actions for the past two academic years is shown in the adjacent table, listing the CAP warnings and required withdrawals by class for each semester along with the total undergraduate enrollment.

Roughly 60 students are asked to withdraw and 200 are put on warning each semester. First semester freshmen are generally not asked to withdraw, even if they fail every subject. The committee usually bases a required withdrawal on at least two semesters of poor performance.

Often the primary source of information about a student in these meetings is the faculty advisor.

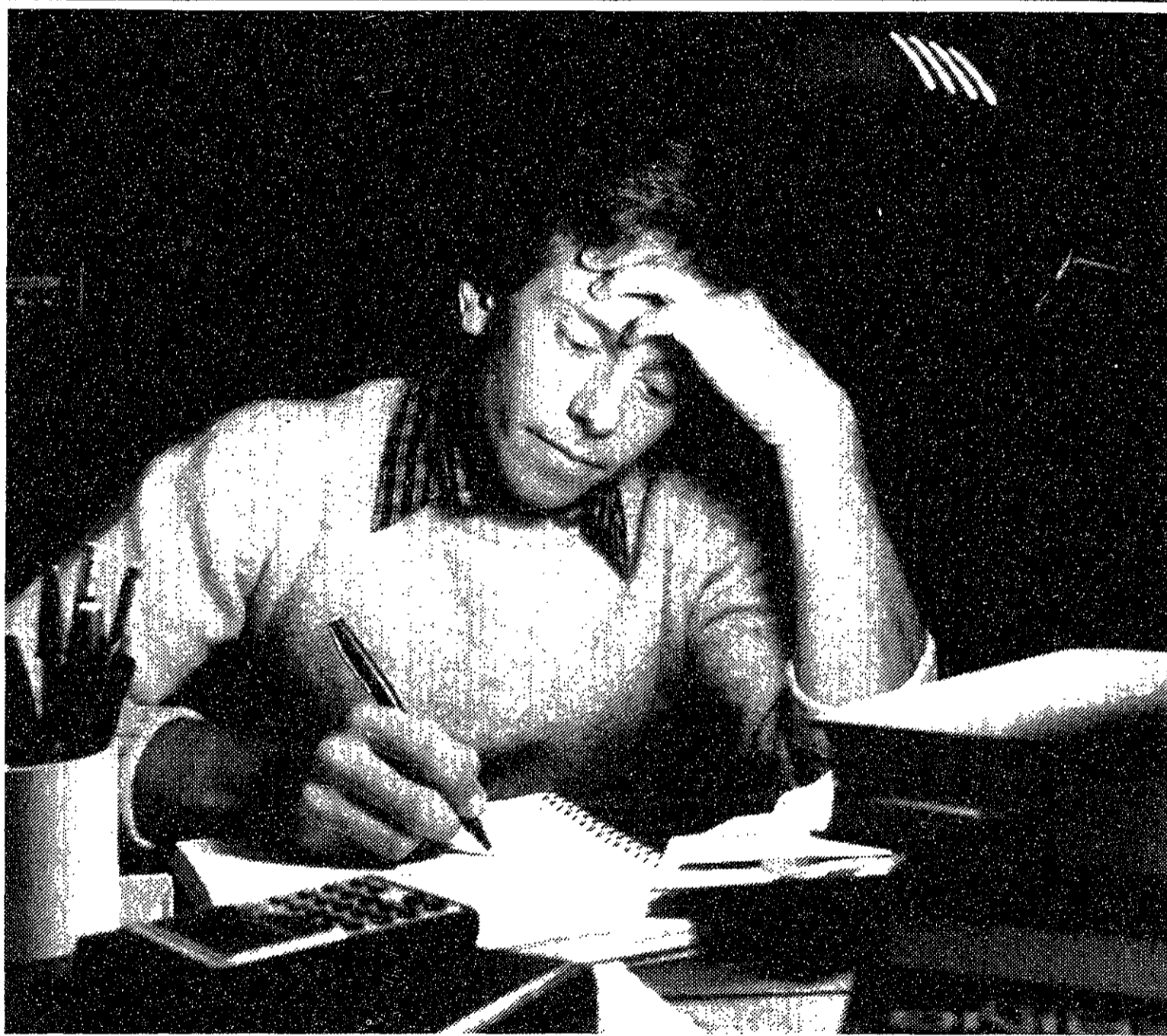
Unfortunately, there is often little or no communication between the advisor and the advisee except for form-signing, yet the advisor is asked to represent the student at this meeting. There are even advisors who look on their advisees as burdens at best.

The CAP recognizes this weakness but views it as unavoidable. It would be impossible to have the students themselves appear, due to the time constraints of the review process and the confidential nature of the information discussed.

The current format of proceedings for the CAP are perhaps the most open that could be expected given the confidential nature of its role. Many universities do not even publicize the name of the members of equivalent committees.

CAP actions 1982-1984

Semester	Warnings/Required Withdrawals					Total	Undergraduate Enrollment
	Freshmen	Sophomores	Juniors	Seniors			
Fall 1982	57/1	82/8	53/8	57/13	249/30	4706	
Spring 1983	51/16	45/31	55/7	41/13	192/67	4559	
Fall 1984	44/0	84/20	41/16	56/29	225/65	4602	
Spring 1984	52/12	54/26	39/15	22/8	167/61	4404	



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Please contact: College Relations, Lockheed Missiles & Space Co., Employment Dept. 908BP29, P.O. Box 3504, Sunnyvale, CA 94088-3504. We are an equal opportunity, affirmative action employer. U.S. citizenship is required.

We'll be on campus Oct. 30 & 31. See your Career Placement Office for details.

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Breast cancer found early and treated promptly has an excellent chance for cure. About a week after your period practice this self-examination.

1. In bath or shower.

Fingers flat, move opposite hand gently over each breast. Check for lumps, hard knots, thickening.

2. In front of a mirror.

Observe breasts. Arms at sides. Raise arms high overhead. Any change in nipples, contours, swelling, dimpling of skin? Palms on hips: press down firmly to flex chest muscles.

3. Lying down.

Pillow under right shoulder, right hand behind head. Left hand fingers flat, press gently in small circular motions starting at 12 o'clock. Make about three circles moving closer to and including nipple. Repeat on left.

AMERICAN CANCER SOCIETY

This space donated by The Tech

Listings

Student activities, administrative offices, academic departments, and other groups — both on and off the MIT campus — can list meetings, activities, and other announcements in *The Tech's* "Notes" section. Send items of interest (typed and double spaced) via Institute mail to "News Notes, *The Tech*, room W20-483," or via US mail to "News Notes, *The Tech*, PO Box 29, MIT Branch, Cambridge, MA 02139." Notes run on a space-available basis only; priority is given to official Institute announcements and MIT student activities. *The Tech* reserves the right to edit all listings, and makes no endorsement of groups or activities listed.

Tuesday, Oct. 16

A career workshop on "What Am I Worth? Negotiating Your Salary", sponsored by the Jewish Vocational Service, will be held from 7:30 to 9:30 pm at Gosman Jewish Community Campus, 333 Nahanton Street, Newton Centre, MA. Fee is \$15. To pre-register, please contact Meryl Glatt 723-2846 or Emily Kirshen 965-7940.

New England Winds, the Air Force Band of New England's Woodwind Quintet will present a program of varied musical selections at 8 pm in St. Mary's Church, 155 Washington Street in Winchester, MA. The program is free and open to the public. For further information, call James Moritz at 729-0055

Alvin Alm, Deputy Administrator, Environmental Protection Agency, will speak in a seminar entitled "Managing EPA: An Agency in Transition", sponsored by the Energy and Environmental Policy Center at Harvard University. The talk will be held at 2 pm in Room 230 at the Kennedy School of Government, Harvard University.

Wednesday, Oct. 17

Mr. C.M. Butler III, Former Chairman of the Federal Energy Regulatory Commission, will speak on "Natural Gas Outlook For the Remainder of the Decade", sponsored by the Energy and Environmental Policy Center at Harvard University. The talk will be held at 4 pm in Room 150 at the Kennedy School of Government, 79 John F. Kennedy Street, Cambridge.

Meeting of the Student Cable Programming Group will take place at 6 pm in Room 9-329. All interested people are invited to attend. Contact Randy Winchester at x3-7431, Room 9-030.

The Quality of Student Life at MIT: the first in a series of four meetings sponsored by the Office of the Dean for Student Affairs. The meeting will be held from 4:30-6 pm in the Mezzanine Lounge at the Student Center. Let us hear from you.

A welcome back reception for students who have spent their Junior Year Abroad during the 1983-84 school year at 4 pm in Room 12-122. Refreshments will be served.

Thursday, Oct. 18

Meeting for students interested in medicine will be held at 10 am in Room 37-252. Topics to include: pre-medical requirements, office procedures, pre-medical advisor, and handbooks and materials.

Sponsored by the Office of Career Services and Preprofessional Advising. For further information, contact Ann x3-4737, Room 12-170.

A seminar entitled "Competition for Intelsat", sponsored by the Research Program on Communications Policy, will be held at 4 pm in the Marlar Lounge, Room 37-252, 70 Vassar Street, Cambridge. Speakers are Christopher Vizas, Orion Satellite Corporation and Joseph Pelton, Intelsat.

"Stress, Anxiety, Panic & Phobias", a program offered by Mt. Auburn Hospital. Learn to examine what makes you anxious and find out how anxiety can sometimes develop into panic attacks and phobias. The program will be held from 7:30-9:30 pm in the cafeteria of Mt. Auburn Hospital, 330 Mt. Auburn Street. Fee is \$3; free to people over 65. For more information, call 492-3500 ext. 1508.

Saturday, Oct. 20

A fund-raising party sponsored by the Cambridge Central America Referendum Campaign. 595 Mass. Ave., 3rd floor, Central Square, Cambridge. 9 pm. D.J., dancing, food, cash bar. Donation: \$5. For more information call 576-2455 or 247-1577.

Monday, Oct. 22

Beth Israel Hospital is offering a new therapy group for women who have been sexually assaulted. The session will begin at 6 pm and will meet weekly. For more information call 735-4738.

Tuesday, Oct. 23

A panel on "Careers in T.V. and Radio Broadcasting", sponsored by the Jewish Vocational Service, will be held from 7:30-9:30 pm at Gosman Jewish Community Campus, 333 Nahanton Street, Newton Centre, MA. Admission is \$5. For more information, please contact Gail Liebhaber at 965-7940.

A cognitive science seminar entitled, "Boltzman Machines: Constraint Satisfaction Networks that Learn", sponsored by the MIT for Cognitive Science, will be held at 7:30 pm in the Grier Conference Room 34-401. The speaker will be Geoffrey E. Hinton, Dept. of Computer Science, Carnegie-Mellon University. Copies of the paper are available upon request from Karen Persinger, 20B-225; x3-7358.

Wednesday, Oct. 24

The Quality of Student Life at MIT: the second in a series of four meetings sponsored by the Office of the Dean for Student Affairs. The meeting will be held from 4:30-6 pm in the Mezzanine Lounge at the Student Center. Let us hear from you.

An informal get together of the MIT European Club will take place in the Mezzanine Lounge at 7 pm. Bring your own drink. Members and non-members welcome.

Thursday, Oct. 25

A seminar entitled "The MIT Communications Problem", sponsored by the Communications Forum, will be held from 4:53-6 pm in the Marlar Lounge, Room 37-252, 70 Vassar Street, MIT. The speaker will be David Clark from the MIT Laboratory for Computer Science.

Beth Israel Hospital is starting a new group program for tension and migraine headache sufferers. Participants will learn to use non-

drug techniques including the relaxation response, stress management, and exercise to relieve their pain. For more information, call 735-2589.

Sunday, Oct. 28

WBZ's 3rd Annual Halloween Lite Monster Dash Road Race will start at 12 noon at Jimbo's Fish Shanty. All proceeds will benefit Children's Hospital. Also, immediately following the race, there will be a "Dash Bash" celebration party for the runners. For more information, please contact Donna Howard at 926-8523.

Tuesday, Oct. 30

A career workshop on "Interviewing: For Information Only", sponsored by the Jewish Vocational Service, will be held from 7:30 to 9:30 pm at Gosman Jewish Community Campus, 333 Nahanton Street, Newton Centre, MA. Fee is \$15. To pre-register, please contact Meryl Glatt 723-2846 or Emily Kirshen 965-7940.

Dr. Gray will hold open hours from 3:30-5 pm. Any member of the MIT community may schedule a fifteen-minute appointment on a first-come, first-served basis by calling x3-4665 or stopping by the reception area in Room 3-208. Appointments may be made only on the day of the open hours.

Ongoing

Do you like to read? Do you enjoy math? Become a S*T*A*R volunteer. School Volunteers of Boston offers orientation and support to college students who have a few hours per week to spend with elementary, middle or high school students in schools convenient to college campuses.

For information, call 451-6145 or visit our office at 25 West Street, downtown Boston near Park Street.

The Chinese Intercollegiate Choral Society meets Sundays 3-5 pm

in W20-491. Anyone who likes to sing and can speak any Chinese dialect is welcome. For further information, call Isabel Chiu at 258-5233.

Christian Science Lecture THE BASIS OF TRUE FORGIVENESS

By Arno Preller, C.S.B.
of Denver, Colorado

Mr. Preller is a member of
the Christian Science Board of Lectureship
Boston, Massachusetts

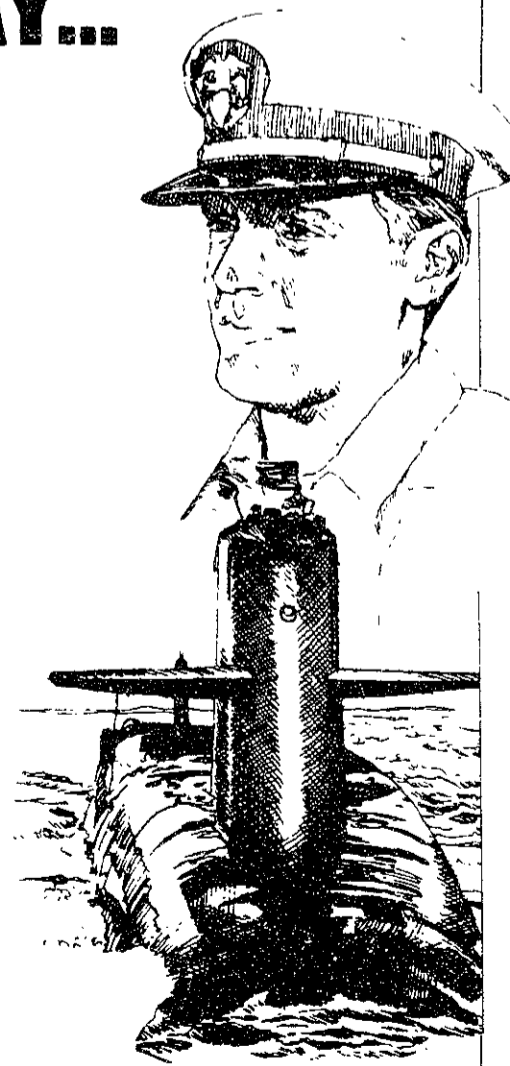
Thursday, October 18th
4:00 - 5:00 P.M. Room 4-163

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It's NUPOC, and one thing it stands for is a \$1000 a month stipend throughout your junior and senior years if you qualify. It also represents the peace of mind of a prestigious engineering management position waiting when you graduate. A position offering the best postgraduate nuclear engineering training in the world, unique benefits and more than \$40,000 in salary alone after just four years.

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Find out more when representatives of the Navy's advanced engineering program visit your campus for interviews on October 26, 1984 or call LCDR Jack Halloran, (617) 223-5434.



notices

Announcements

The Dept. of Athletics has extended the evening closing time at the Alumni Pool. The new open swim hours will be from 7 to 8:30 pm Monday through Thursday effective Thursday, Nov. 1.

Freshman Evaluation Forms should be given to instructors by Friday, October 19. Instructor turn-in deadline is Friday, October 26.

Notice to certain members of the class of 1985 and 1986: To avoid misunderstandings or complications which might slow progress toward your degree, please file a Humanities, Arts, and Social Sciences Concentration Proposal form with your chosen field office after discussing your program of study with a Field Advisor. This should have been taken care of before the end of your sophomore year. If you have any questions please call the HASS Information Center, x3-4441.

Craft dealers wanted for the Jackson Mann Community School's Third Annual Holiday Crafts Fair on Saturday, November 3, 1984 from 10 am to 4 pm at 500 Cambridge St. Allston. If you would like an opportunity to display and sell your wares, please call Rose Sabbag, 738-2770 to reserve a table or to answer any further questions.

Students interested in applying to be R/O '85 Coordinator should attend an informational meeting on Wednesday, October 24, at 5 pm, in Room 7-106. If you're interested in the position but cannot attend the meeting, talk to Andy Eisenmann, W20-429, x3-7019.

Attention Ugly People: this year's UMOG (Ugliest Man On Campus) contest will start on Halloween day and run through November 9. Ugly people on this campus may compete by registering with APO and then collecting votes (a penny a vote). This year's money will go to Rosie's Place, a shelter for homeless women and their children in Boston that was ravaged by fire in April. For more information about how you can become UMOG '84, call APO at x3-3788.

The National Research Council plans to award approximately 35 Postdoctoral Fellowships for Minorities in a program designed to provide opportunities for continued education and experience in research for American Indians and Alaskan Natives, Black Americans, Mexican Americans/Chicanos, and Puerto Ricans. Awards will be made in the behavioral and social sciences, humanities, engineering, mathematics, physical sciences, and biological sciences, and for interdisciplinary programs comprised of two or more eligible disciplines. Deadline for submission is January 16, 1985. All inquiries concerning application materials and program administration should be addressed to the Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington, D.C. 20418.

The American Institute of Steel Construction has announced that eight graduate fellowships of \$5000 each will be awarded in 1985 by The AISC Education Foundation. The grants will be awarded to graduate civil or architectural engineering students proposing a course of study toward an advanced degree related to fabricated structural steel. Applicants must be U.S. citizens. Deadline for receiving applica-

tions is March 1, 1985. To obtain applications, write AISC Education Foundation, 400 N. Michigan Ave., Chicago, IL 60611, or call 312-670-2400.

Randy Winchester of MIT Cable TV is looking for students who would be interested in founding a new student activity to program channels on the cable system. Possible programming could include Arts and Entertainment, live coverage of campus events, student projects, or classic films. Suggestions would be welcome. Those interested should contact Randy Winchester at x3-7431, Room 9-030.

Interested in children? Teenagers? Innovative education? The Cambridge School Volunteers needs you as a tutor, classroom aide, big brother or big sister, or a mini-course teacher. Work with any age student in any subject. Credit may be available. For more information, call 498-9218.

All students interested in applying to law school for fall '85 should make an appointment in the Preprofessional Advising Of-

fice. Phone Ann at x3-4737 or stop by Room 12-170.

National College Poetry Contest, Fall Concours 1984, is offering \$200 in cash and book prizes and free printing for all accepted poems in the American Collegiate Poets Anthology. For more information, write International Publications, P.O. Box 44044-L, Los Angeles, CA 90044.

The MIT Speech and Debate Society is sponsoring a **Fall Speech Contest**. Winners will receive cash prizes. We are now canvassing the MIT student community for interests and suggestions. If you have the slightest interest in talking for fun and profit, call Lisa x5-8922, Nick x5-6352, Meryll x5-6354, or Christine x5-8360.

The Christian Science Monitor is sponsoring an **essay contest** challenging its readers to come up with possible scenarios that could lead to world peace in the next 25 years. Students and faculty at colleges and universities around the country are also invited to participate. Participants might

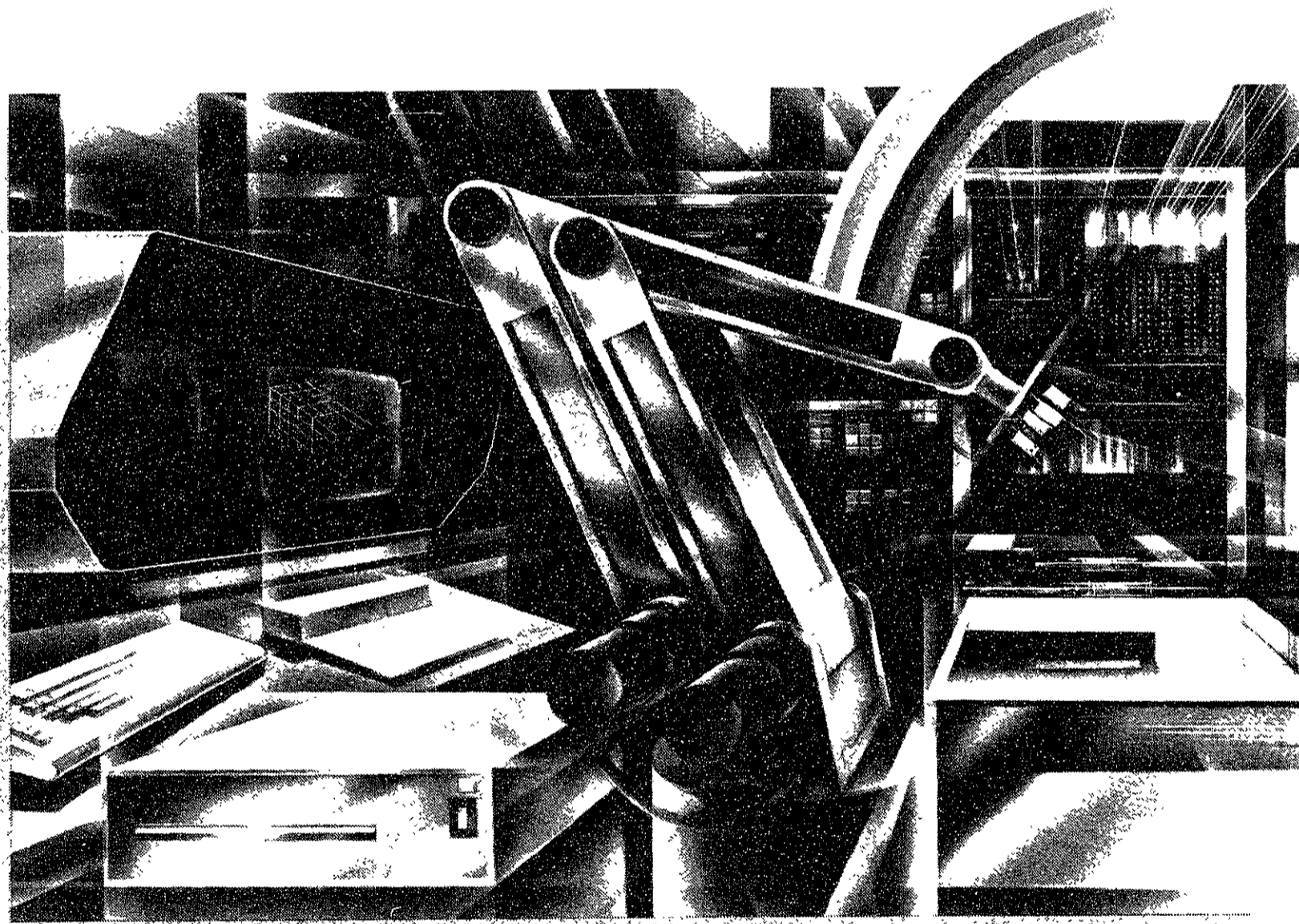
consider such factors as economic conditions, the role of moral leadership and world armaments. Essays will be judged on the feasibility of the ideas they contain and will be expected to show a knowledge of the framework of international relations in the world today and the process by which those relations are bettered. Entries of not more than 3,000 words in English, French, German, or Spanish will be accepted. The best three will be printed in The Christian Science Monitor. Entries should be postmarked not later than December 31, 1984 and sent to PEACE CONTEST, The Christian Science Monitor, One Norway Street, Boston, MA 02115.

The National Research Council announces the **1985 Postdoctoral, Resident, and Cooperative Research Associateship Programs** for research in the sciences and engineering to be conducted in behalf of 21 federal agencies or research institutions. Approximately 250 full-time associateships will be awarded on a competitive basis for research in

chemistry, engineering, and mathematics, and in the earth, environmental, physical, space, and life sciences. Most of the programs are open to both US and non-US nationals, and to both recent Ph.D. holders and senior investigators. Awards are made for one or two years with stipends beginning at \$23,350 a year for Ph.D.'s and an individual determination for senior associates. Postmark deadline must be no later than January 15, 1985. Information on specific research opportunities and federal laboratories, as well as application materials, may be obtained from Associateship Programs, Office of Scientific and Engineering Personnel, JH 608-D3, National Research Council, 2101 Constitution Avenue, N.W., Washington, D.C. 20418, (202) 334-2760.

Seniors who wish to apply for **graduate work in the Department of Electrical Engineering and Computer Science** during 1985 are urged to apply by November 1, 1984. Applications may be picked up in Rooms 38-444 an 3-103.

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The cast-iron technology of the factory will soon be silicon technology.

Chips and computers transfer design information directly to the factory floor. Other chips make possible flexible robotics, programmable controllers for machine tools, automated test systems and digital inspection cameras. Local area networks tie together all these systems.

These are revolutionary changes that can result in better-made products, manufactured of new materials at lower cost.

GE is deeply involved in bringing manufacturing into the silicon age. In one plant, electronics and computer systems enable us to reduce production time of a locomotive's diesel engine frame from 16 days to 16 hours. At our dishwasher production plant, a master computer monitors a distributed system of programmable controls, robots, automated conveyors, assembly equipment and quality control stations.

We're working on robots that can see, assembly systems that hear, and machinery that can adapt to changes and perhaps even repair itself.

This transformation of manufacturing from the past to the future creates a need for new kinds of engineers to design and operate factories of the silicon age. They have to be as familiar with the realities of the assembly line as with the protocols of software communications.

They will synchronize dozens of real-time systems whose slightest move affects the performance of every other system. The frontiers of manufacturing technology have been thrust outward. Old ideas have been questioned, new ones probed. Some ideas are now on production lines. Others are still flickers of light in an imagination.

All offer opportunities for you to seek, to grow, and to accomplish.



If you can dream it, you can do it.

GE campus interviews: Tuesday and Wednesday, November 6 and 7. Contact your placement office for schedule information.

notices

The German Academic Exchange Service (DAAD) announces the availability of scholarships for students and faculty members: **German Studies Summer Seminar at the University of Marburg** during June/July 1985. This 4-week course is designed for faculty members and, in exceptional cases, Ph.D. candidates. The seminar provides intensive language courses, seminars and lectures on political, social and economic aspects of contemporary Germany. In addition, meetings with representatives of professional groups, and excursions to places of interest are on the agenda. **Deutschlandkundlicher Sommerkurs at Regensburg University.** This course offers a 6-week German Studies program providing language instruction and concentrating on historical, cultural and economic aspects of contemporary Germany. Students from all fields with at least junior status and a good working knowledge of German are eligible. All application deadlines are January 31, 1985. For further information and application forms, please contact German Academic Exchange Service, 535 Fifth Avenue, Suite 1107, New York, NY 10017 or call 212-599-0464.

The MIT Dance Company School of Boston presents its ninth year of dance education, offering two fifteen week sessions from September to May. MIT continues its extensive Children's Program for ages 3 to 14, as well as teen and adult classes in modern and jazz. Classes run Monday through Saturday with levels ranging from novice to professional. Aerobics is also offered in the evenings. The School is located at 551 Tremont Street in the Boston Center for the Arts. For more information, please call 482-0351.

The National Consortium for Graduate Degrees for Minorities in Engineering, Inc. (GEM) is now accepting applications for its Graduate Fellowship Program which will provide one hundred-fifty awards to minority students in engineering. Candidates for participation must be American Indian, Black American, Mexican American, or Puerto Rican. Each fellowship pays full tuition and fees at a member university and a stipend of \$5000 for the academic year, as well as provides summer employment at a member-research laboratory. Deadline for application material for the 1985-86 fellowship year is December 1, 1984. For further information contact: Graduate Engineering for Minorities, P.O. Box 537, Notre Dame, Indiana 46556.

The Peace Corps is offering skill-training for programs utilizing the backgrounds of college graduates with mathematics and science minors. Peace Corps volunteers serve for two years. During their service they receive a generous living allowance, paid travel, training and health care. A post-service readjustment allowance of \$175 per month is paid to each volunteer. For information on Peace Corps service, call 223-6366 or 7366, or write PEACE CORPS, 1405 McCormack POCH, Boston, MA 02109

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The General Electric Foundation and the Ford Foundation have made **loans available for engineering Ph.D. candidates interested in teaching careers.** The loans will be 25% forgiven for each year of full-time service on an engineering or computer science faculty.

Applicants should file a Financial Need Determination Form with the Student Financial Aid Office and Contact Assistant Dean of Engineering for Administration Donna R. Savicki for an interview. For more information, please contact Dean Savicki at x3-3294.

The **Jeffrey M. Frank Scholarship** for Spring 1985 is currently available through the Combined Jewish Philanthropies. Preference will be given to Jewish students from the greater Boston area. Please contact Lucy Van der Wiel or Lisa Oteri in the Student Financial Aid Office for further information.

Students and faculty are cordially invited to flex their vocabularies at the **Boston Scrabble Club** — any Monday evening in the Teachers' Lounge of the Jackson-Mann Community School, Union

Square, Allston. The club features "social Scrabble" for nervous newcomers, as well as officially-rated competitive play for the real addict. Club hours are 6:30 to 9:30 pm. For more information, contact P.G. Kaufmann at 784-5325.

tances of 15 to 22 miles. Open Monday through Friday from 7 am to dusk, the Running Centre offers changing rooms and showers free of charge. For further information, call 523-9746.

The **Huguenot Society of America** provides a \$1000 scholarship annually to one student at MIT, who is nominated by the Institute, and who presents to the Society a verifiable line of descent from a Huguenot family. This scholarship is presently open, and application forms are available in the Student Financial Aid Office.



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Deadline for entries:

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Co-sponsored by MIT Speech & Debate Society in association with the MIT Writing Program
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We'd like to introduce ourselves, show you around, and let you talk to some of the MIT grads who have made the move from Kendall Square to Fresh Pond Circle. If your major is in the physical or computer sciences, it's an opportunity you shouldn't miss.

BBN's Open House for MIT Students October 22, 1984

- Time: 3:00-5:30 p.m.
- Transportation: 2:30 p.m. pickup in front of the Administration Building Main Entrance on Mass Ave. (Bus transportation provided by BBN)
- Signup: Office of Career Planning and Placement by Thursday, October 18.

For further information call Marianne Kovic at BBN, 497-3288.

CEP plan would restrict some students' majors

The following is the text of the CEP proposal the faculty will consider on Wednesday:

Contingency Plan for Addressing the Enrollment Imbalance Problem

The report for the May Faculty Meeting discussed the potential damage to the Department of Electrical Engineering and Computer Science and its programs if steps are not taken to substantially reduce the number of EECS undergraduate majors from current levels. That report also described the various efforts being undertaken to achieve a better balance of enrollment across departments and Schools, and concluded that if these actions do not result in a sufficient decline in EECS enrollment, overt restrictions may be unavoidable.

In helping address and issue that is both difficult and divisive, the Faculty affirmed through a specific Motion in May that: a) if restrictions are to be applied, they should be applied during the admissions process and communicated to students before they accept admission to MIT, and b) the CEP should present a detailed contingency plan along these lines at the September Faculty Meeting.

The proposed course of action, developed in consultation with various faculty, students, and staff, is described in detail in the body of this report. The motion which follows enables this contingency plan to be adopted:

MOVED BY THE CEP: a) that the Faculty authorize under the following conditions the admission of first-year students who are restricted in their choice of major: Goals for the reduction in Course VI undergraduate enrollment over the next several years are stated on p. 2 of the CEP's Report for the 19 September 1984 Faculty Meeting. If these goals are met, then no restrictive action will be undertaken. The Committee on Undergraduate Admissions and Financial Aid (CUAFA) will have the responsibility for assessing whether the goals have been met and for authorizing specific restrictive action as necessary, with these limitations on time: Restricted admissions could be initiated only for the class entering MIT in 1985, in 1986, or in 1987, and, if restricted admissions is initiated for one of these classes, such restrictions could be applied to no more than the subsequent two entering classes without further vote by the Faculty.

b) that restricted admissions be pursued in accordance with the following general framework: If restrictive action is found to be necessary, then a portion of admitted students will be offered admission without the option of majoring in Course VI. The Director of Admissions will determine the number to be admitted with this restriction in order to meet the stated enrollment goals, and shall be responsible, under general principles specified on p. 4 of the Report, for designating those who are to receive restricted admission and for communicating the decisions appropriately to those applicants admitted with and without restriction.

c) that the Committee on Undergraduate Admissions and Financial Aid be charged with keeping the Faculty informed regarding the fulfillment of these provisions, including the details of implementation.

As discussed in the CEP's report to the Faculty in May, the various models explored by the EECS department heads suggest that 270-290 Course VI sophomores constitute a reasonable load, consistent with the resources available to the Department.

A phased decrease in EECS undergraduate majors is seen as an appropriate way to achieve the desired stability in total EECS enrollment, provided that sufficient reductions in the number of sophomore Course VI majors take place — starting the fall of 1984 — to show that real progress toward the necessary enrollment reduction is being made.

The following gradual reduction, from the fall 1983 sophomore enrollment of 380 to the desired steady state, is proposed as a condition for avoiding a restrictive action on enrollments:

Fall 1984: 350 sophomores (en-

tered fall 1983) [Fifth week counts]

Fall 1985: 310 sophomores (entering fall 1984)

Fall 1986: 270 sophomores (to be admitted spring 1985) — steady state

Even with these reductions in the number of sophomores, the total undergraduate enrollment in Course VI will remain above the 1983-84 level of 1149 for two more years, and will not reach a steady state 900-950 until the fall of 1988. Inability to meet these benchmark enrollment levels (which, of course, depend upon specific assumptions that have been made about available resources) would provide evidence that the various noncoercive efforts being undertaken are not sufficient to achieve the necessary reductions.

The Committee on Undergraduate Admissions and Financial Aid, assessing EECS enrollments in the context of the benchmark levels and other available information, would decide on behalf of the Faculty whether the restrictive action described below should be implemented. CUAFA's decision would be reported to the CEP and to the Faculty.

This year, a decision by CUAFA regarding the need for a restrictive action should be made by the first week of October, so that following the Faculty vote on the overall con-

tingency plan in October the action could be applied to the class entering MIT in the fall of 1985, if necessary. CUAFA should make a decision regarding the class entering in 1986 (and subsequent years) as early as possible in order that the Admissions Office be given adequate lead time if any restrictions are to be applied. The tentative choices made by freshmen in early May can serve as a guide in this decision.

As discussed in the report for the May Faculty Meeting, the specific restrictive action used should, as a general guideline, make the least perturbation in the admissions process and on external perceptions of MIT. The current admissions process has worked well, and therefore we would like the proposed process to appear "normal" to as many people as possible. It also is important that the action can be simply and effectively communicated to prospective students, and that it take into account the limited information students have as they make their decisions about colleges.

Different ways of placing restrictions during the admissions process were considered. Many of the possibilities, such as establishing a separate application procedure for those students wanting to major in EECS, are not consistent with the preceding guidelines.

The restrictive action being proposed is to admit, as part of the normal admissions decision process, some students who are not given the option to major (or double major) in Course VI. Most admitted students would receive the usual admissions letter, which would allow them the same flexibilities in choosing majors as currently. The proportion of students who would receive restricted admission is expected to be under one-quarter. The proposed type of restrictive action keeps the process primarily internal to MIT, leaves most students unaffected, and thereby introduces a relatively small perturbation in the current admissions system. In fact, the restrictive action can be phased out in a continuous manner as other longer-term means are developed to address the enrollment imbalance. The proposed approach does not require that students declare a choice of a major at the time of application.

In order to understand more specifically what is being proposed, it is essential to have a clear picture of the current admissions process. It is important to remember that current admissions judgments result from a dynamic decision-making process, involving faculty and staff, that is based on a wide variety of different types of information.

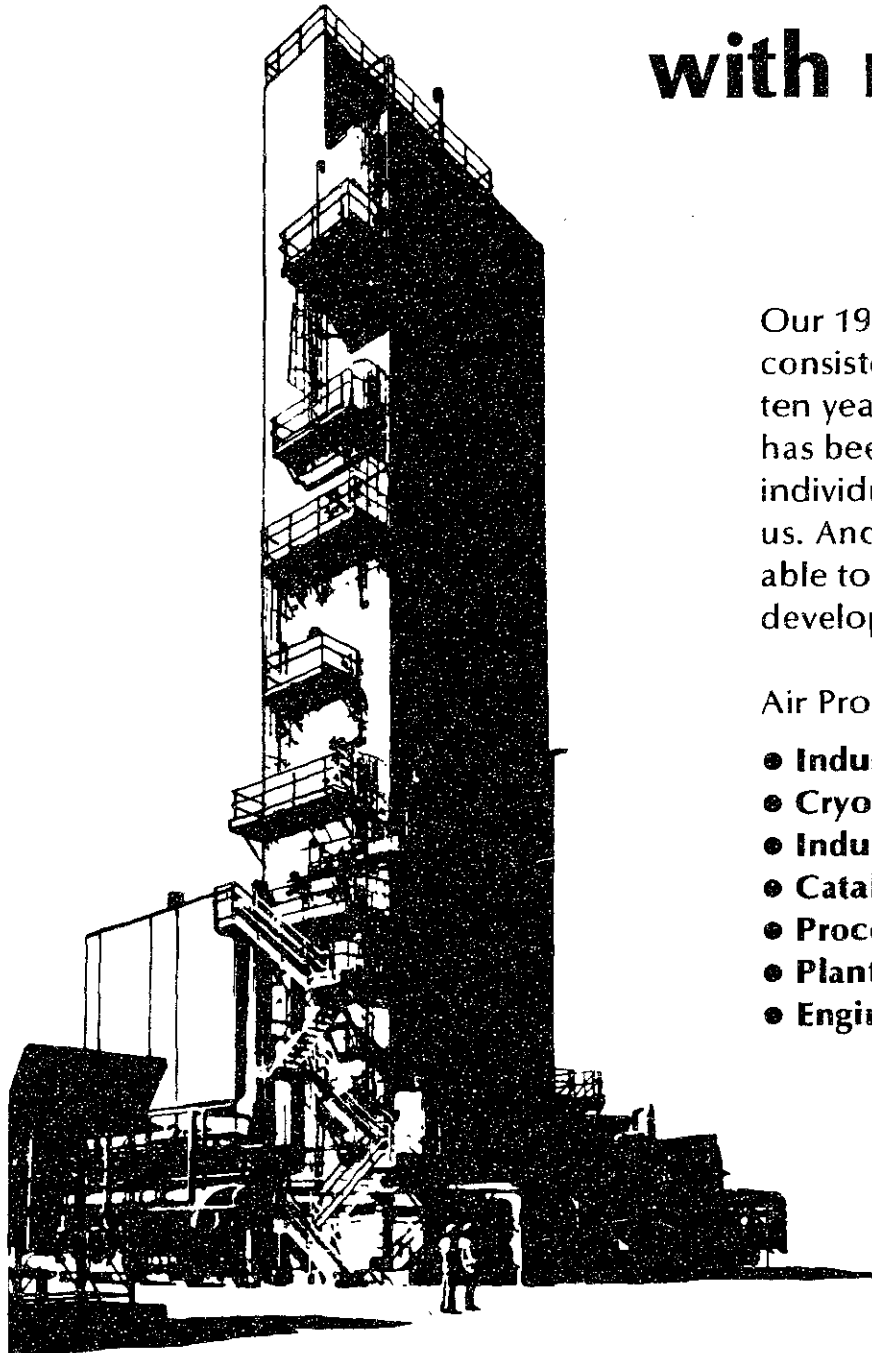
The process results in admissions decisions; it does not lead to a linear ranking from which a given number of students is admitted and the next several hundred are put on a waiting list.

Each applicant's folder is read by two people (usually one faculty and one staff) and condensed on a Summary Card; a Personal Rating (PR) is assessed by each reader based on a judgment of the applicant's personal qualities and achievements. A Scholastic Index (SI) is calculated based on high school grades, rank in class, and College Board scores. During the final selection process, the applications are organized on a table in a matrix whose cells are defined by ranges of the SI and PR indicators; Figure 1 provides a schematic of how applicants, as well as those admitted, distribute over the matrix. The Summary Cards (and sometimes the folders) in each cell of the matrix are reviewed by faculty and staff members, and tentative "admitted," "wait list," and "no" decisions are made for the individuals in each group. Continual adjustments are made in this dynamic process until the appropriate number of students is admitted (or put on the waiting list) and the decisions appear consistent and coherent.

(Please turn to page 12)

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AIR PRODUCTS

Admissions Office may screen for EECS major

(Continued from page 11)

Under the proposed restrictive action, the admitted class as a whole would be selected in the manner described above, but a fourth kind of outcome, "admitted with restriction," would be included in the process as well, as outlined later.

The admissions indicators (SI and PR) are useful as rough guides to organize the overall decision process, but the Admissions Office is sensitive to the limitations of these quantitative measures. Relative academic success at MIT is determined by a wide range of factors (many of which become important after students enroll at MIT) and cannot be predicted very precisely on the basis of these admissions indicators. The human judgments that are made in the selection process with respect to the academic background, potential, personal characteristics, interest, and other nonquantitative aspects of each applicant are essential in admitting a diverse class of high caliber. Such judgments are important in doing justice to the complexity of the task, including dealing with the imperfect nature of the information of each student. Thus, it should be no surprise that not everyone with the higher SI and PR indicators is admitted, and that admitted applicants are distributed across the matrix with no sharp cutoff. For similar reasons, the proposed restricted admissions will be distributed across the matrix cells.

The specific designation for those who are to receive restricted admission will be based on the following general principles:

1) **The primary objective, while reducing the number of undergraduate EECS majors, is to get the best class possible with a broad range of interests and backgrounds into MIT.** Since admissions restrictions will likely affect the "yield" of those offered admission, the process of designating those who are to receive restricted admission will take into account location within the admissions matrix. The

Admissions Office must retain flexibility, since the distribution of those who receive restricted admission should depend upon the character of the applicant pool in a given year and upon how the Admissions Office sees the effect of restrictions on the various segments of the admissions matrix.

2) **Another major objective is to ensure that students from throughout the admissions matrix receive restricted admission.** This principle makes it possible for the Institute to effectively communicate to students that restricted admission does not mean that the students are considered to be in the "bottom" quarter of the class.

3) **It is expected that admissions decision would be made independently of the designation of those who would receive restricted admission,** and this restricted admissions would not affect the array of students that normally would be admitted. Because of concerns about timing and logistics, the designation of restrictions will be carried out as part of the Admissions procedures, rather than as a separate process. Faculty are encouraged to participate in reading admissions folders and in the final decision process, as they have been in the past.

4) **Information on career interests may be used in the process of designating restrictions;** judgments on background information such as the strength of interest in particular areas would be based on a reading of all the material provided in the application (including academic and extracurricular involvements). An applicant's stated field of interest by itself will not be a major factor in deciding whether or not a student receives restricted admission.

The process of admitting students and designating those who are to receive restrictions is expected to lead to a distribution of majors across all fields whose characteristics would be difficult to distinguish from what happens currently — except that the number of

EECS majors would be smaller.

While the desired outcome of the process can be prescribed as above, it is important to allow the Admissions staff and CUFA, together with the Faculty participants in the admissions process, the flexibility to put into practice a specific approach for designating those who are to be offered restricted and unrestricted admission. The Admissions Office needs to be guided by the particular circumstances at the time restricted admissions is used and by their experience with restricted admissions, and the approach must fit within the time and logistical constraints of the overall admissions process.

The Admissions Office, CUFA, and the Office of the Dean for Student Affairs will maintain oversight on how the procedures work — how they affect the admissions process, as well as students once they are at MIT — in order to be able to make adjustments in the process for the following year.

Women students and minority students will be selected for admission as they currently are. Because of the significant and ongoing underrepresentation of women and particular minority groups in scientific and technical careers in the country, and because of the Institute's interest in continuing to increase the number of women and minority students in all fields of study at MIT, care should be taken that we do not discourage women and minorities who have been offered admission. For that reason, sex and minority status of applicants will be taken into account in determining who will receive restricted admission. Admissions restrictions on non-U.S. students are expected to yield about the same proportion of Course VI majors in this group as in the Class as a whole.

The numerical implications of restricted admissions can be estimated based on current patterns. The yield of students offered unrestricted admission would be about 60%, and the yield of those offered restricted admission is expected to be

roughly 50%. Assuming that one-third of those offered unrestricted admission will choose to major in Course VI, about 1,830 applicants would need to be admitted (which is about 80 more than would be admitted normally) in order to achieve a class size of 1,050 freshmen and 270 eventual sophomore EECS majors. Although the numbers depend upon how career interest information is used, it is expected that at most one quarter of the students admitted, and a slightly lower proportion of those who then enrolled at MIT, would be restricted from majoring in Course VI.

Early Action. Early Action candidates must complete their applications to MIT by November 1, and can expect to receive MIT's response by mid-December. There are two distinguishing features of MIT's Early Action program: 1) students who are not offered admission are considered again in the regular admissions process, and 2) students do not need to respond to MIT's offer of admission until the regular May 1 Candidates Reply Date. Based on the principle of minimum perturbation from current practice, early action students will continue to be admitted to MIT as usual, with the understanding that some fraction will receive restricted admission.

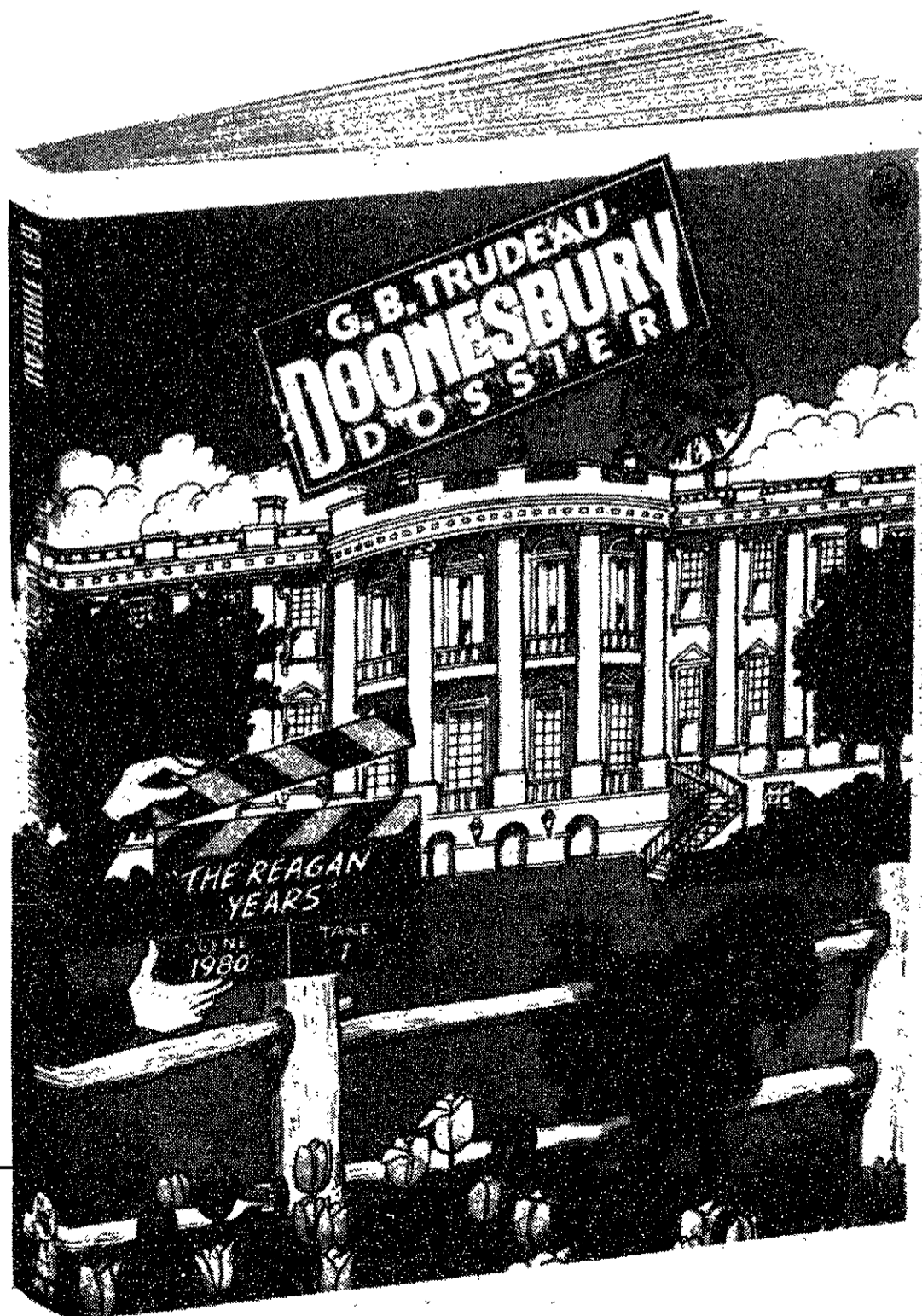
Students will have been informed through the various admissions materials that MIT reserves the right to limit enrollment in particular fields in order to balance educational resources with student interests. The Application will state more specifically that it may be necessary to admit some students who will not have the option to major in EECS. Individual students will not know whether restrictions apply to them until they receive their admissions letters. Since some students will be restricted from majoring in a department in which they have expressed no interest, language will be developed to respond appropriately to these students.

Students will have been informed about their options at MIT before

they decide whether to accept MIT's offer of admission, and the number of students from among those with restricted admission who can subsequently enroll in Course VI will be very limited. Of course, if the circumstances warrant, restrictions that were in place could be removed at any time for a Class as a whole.

The following process has been suggested for allowing a very limited number of restricted students to major (or double major) in Course VI. Students would describe in a formal petition the reasons for wanting to enroll in EECS. The Department would consider all of the petitions at some point during the spring term, and fill whatever limited number of openings were available. The actions would be forwarded to the Committee of Curricula, which would maintain records on the petitions approved by EECS. The CEP would decide at an appropriate time whether or not such an approach should be used, depending upon existing circumstances.

The Registrar's Office would flag the record of each student who had received restricted admission and would remind the student of that restriction if the student subsequently indicates EECS as the major field. The fact that a student accepted restricted admission will be treated with the same confidentiality as other academic information. The information will not appear on term summaries, grade reports, and transcripts. An effort will be made by the Undergraduate Academic Support Office (UASO) to help advisors understand the philosophy behind the restrictive action that is being taken and the expectations for helping students.



JUST IN TIME "THE REAGAN YEARS" FROM DOONESBURY

If the comic strip 'Doonesbury' appeals to such diverse people as Gloria Steinem and William F. Buckley Jr., then the "Doonesbury Dossier", G.B. Trudeau's 4th Anthology is sure to appeal to everyone you know as well. Steinem writes in her introduction that "...Because Doonesbury's world stretches from campus to Washington, from American bedrooms and football fields to the battlefields of the Mideast and American blunders in Southeast Asia, it includes more varieties of characters than any other comic strip, not to mention more than most movies or novels." And each character is complete with the vulnerabilities and inconsistencies that make us all human. Steinem adds that the anthology "Brings us an imaginary garden that unites a whole world of disparate toads." Three years of the inimitable Trudeau wit and style are included in the "Dossier", and coincide with the election campaign, inauguration and first term in office of the First Cowboy. G.B. Trudeau's "Doonesbury Dossier" celebrates one of America's most popular and clearly most prolific comic strips.

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Drummer out of the movie

The Little Drummer Girl, now playing at the Sack Cheri; presented free to the MIT community Oct. 9th courtesy of LSC and Warner Bros. Pictures.

I have been raised to believe that a gentleman never discloses the end of a story, so anyone who thinks he or she will see this movie should not read beyond the triple asterisk.

Gag me with an AK-47! How do I hate this movie? Let me count the ways. First, the subject matter. If director George Roy Hill wanted to use John Le Carré's spy story to show us how depressing the Mid-East situation is, he succeeded. However, that's not what I call entertainment. If, as one would suppose, he intended to use the Mid-East situation as a good basis for a spy story, he failed. The viewer is left feeling about as close to the story as he or she is to local political debates in the Peoples' Republic of China.

Second, the casting. Klaus Kinski and Yorgo Voyagis turn in believable performances as member of Israeli Intelligence. Sami Frey and Michael Christofer, among others, do the same as members of the PLO. But Diane Keaton as a terrorist/double agent? They must be kidding. She has done well as a confused wife, depressed teacher and ardent socialist; but this role was a little too much. Scenes of her in a PLO training camp with razor sharp creases in her green fatigues and dainty little perspiration stains at the underarms of her t-shirt were as comic as her freedom fighter scenes from *Sleeper*.

Last but not least, the story. I have never read anything by Le Carré, but many of my friends have. Considering the high opinion they have of his work, I cannot believe that the failures of this story reside entirely with the author. I did see *Smiley's People* on PBS and can say that the style is there. All the little twists and attention to detail are present. It is a pity no one paid any attention to the plot.

First we have the actress, Charlie (Diane Keaton), who has vague Palestinian sympathies. Next, we have the Israeli intelligence service trying to court her as a double agent to penetrate the PLO and aid in the capture of the super-terrorist, Khalil. Up to here, the story is plausible.

How do they finally recruit her? First they make sure that she falls in love with one of their operatives. Then they take her to a house and spend an entire night interrogating her about the most intimate details of her life and then exposing to her that they knew precisely when she was telling the truth and when she was not. Inexplicably, she is converted to the cause.

Next comes her training as a terrorist. If the PLO really does that little background checking before inviting outsiders into the organization, they are in big trouble. As far as this story goes, the super-terrorist is in big trouble.

Khalil is the story's tragic romantic figure. He believes deeply in his cause. He is quiet, suave and urbane. He also makes bombs for detonation in houses, lecture halls, and cars. Is this to kill Israeli sol-



Diane Keaton on her way to the Palestinian training camp in *The Little Drummer Girl*.

diers? Oh no, you deluded lapdog of the Zionist aggressors. This is to kill the true enemies of the Palestinian people: women, children and diplomats.

Now, it is time for the crowning defect, the ending. For those of you who still want to see the film, I will just wish you luck in obtaining a ticket refund should you end up agreeing with my review.

Charlie is sent on her first mission. The plan is to blow up an Israeli academic who is lecturing in Germany. In the time span

of a few hours: Charlie meets Khalil; delivers the bomb for him; has second thoughts about turning him over to the Israelis; goes to bed with Khalil; and to top it all off, has a nervous breakdown because her Israeli lover kills Khalil in a shootout.

The miscasting of the major character and the depressing subject matter could be excused if only the story did not make a left turn into implausibility after the first half hour. If I had not seen it for free, I would demand my money back.

James F. Kirk

Music for hackers

Academy of St. Martin in the Fields; *Symphony Hall, October 12; John Gibbons at the Museum of Fine Arts, October 14.*

Sherry Turkle claims in her new book, *The Second Self*, that some computer hackers dote on Bach for its formally-woven complexities, for its mathematical structures. I have not met any such people myself, and would speculate that though they might claim to find joy in music's mathematical forms, it is the emotional structures, latent, indeterminate, hard to pin down or understand, which subliminally draw their attention.

On Friday night the Academy of St. Martin in the Fields played in Symphony Hall. They provided a fine display of quite dashing virtuosity; their work spelled elegance. But for all this, the performance was mostly a failure: dry and humorless, we were provided with intellectual games galore, but the essential human thread to tie them together was lost on the group of musicians.

A Vivaldi *Concerto* received the same treatment as a Mendelssohn *Symphony*: in performance it was as empty of meaning as a system of logic devoid of substance.

The final work, Britten's *Variations on a Theme by Frank Bridge* was altogether more successful: the dazzling virtuosity

here certainly exciting. But the Academy fame is built on its Baroque repertoire and it cannot allow complacency to deprive Bach and his contemporaries of their humanity.

John Gibbons provided a needed antidote on Sunday afternoon, when he performed the Bach *Goldberg Variations* at the Museum of Fine Arts. A deeply involved and intellectual reading played structure while carefully developing the work's dramatic — and at times emotionally intense — content. The thoughtful sad, nature of the 21st variation was compelling. And the 25th variation, the last minor key variation of the piece, was played with a depth that instantly subjugated form to the role of carrier of substance, the tragic message of the movement reaching more deeply at Gibbon hands than could any romantic piece of later years. The exhilarating display of keyboard command culminated in the 30th variation *Quodlibet*, a piece in which Gibbons showed inspired and total control over a machine — a harpsichord — for the transmission of the art and essential soul of man.

Computer hackers should try the Museum of Fine Arts. . .

Jonathan Richmond

Mahavishnu pulls through

Mahavishnu, Oct. 11th at the Opera House.

When Mahavishnu took the stage an hour late this past Thursday and began with a generic 1970's fusion piece, I laid back in my seat. This was going to be another sleeper. But a funny thing happened on the way to the second encore. The band threw in enough twists, changes of pace, sheer technique and love of music to complete a convincing, exciting performance.

Mahavishnu is a recent reincarnation of the Mahavishnu Orchestra, one of the pioneering fusion groups of the 1970's. The only remnant of the original formation is leader/guitarist John McLaughlin, however, as violin has been replaced by saxophone (Bill Evans), percussion by a jazz drummer (Danny Gottlieb) and an eastern mysticism for a funk bass and synthesizer sound. All of the changes have been for the better, both technically and in terms of popular appeal. The Mahavishnu Orchestra used to be too esoteric for all but the most sophisticated and intense of listeners.

So when the revamped Mahavishnu

completed their first clichéd tune, the audience of 700 applauded only half-heartedly. The band could do better than this. And indeed, song by song, the group's skill, diversity and "sound" became more evident. After an improvement in sound mixing, McLaughlin's guitar-synthesizer could finally be distinguished from the rest of the band, particularly in an early ballad, "Nostalgia." It deserved to be heard, as the guitar-linked-to-a-\$40,000 synthesizer was producing chimes, violins and an electric-piano sound that were indistinguishable from the original instruments, not to mention a few totally original tambres. In fact, the electronic sounds of the evening were so interesting they left one wondering whether a saxophone was needed at all.

"Nostalgia" led into the funky "East Side, West Side," featuring a keyboard solo that alternated between rapid two-handed passages to Memphis soul chordal work. This piece was followed by "Blues for L.W. (Lech Walesa)" and Bill Evan's "Living in the Crest of a Wave," the title track from the saxophonist's new solo al-

Chamber music superb

The Boston Chamber Music Society, October 14 at 8 pm, Sanders Theatre.

The Boston Chamber Music Society put on a wonderful performance on Sunday. The program consisted of instrumental works by Beethoven, Dahl, and Tchaikovsky. Fine technical ability combined with a true feel for lyricism added up to a moving and enlightening musical experience.

Opening the concert was the Beethoven *Serenade for Flute, Violin, and Viola*, opus 25. Fenwick Smith played the flute expressively, and was well balanced with violinist Stephanie Chase and Katherine Murdock on viola. The first movement supplied a vigorous opening for the concert; and the minuet did not disappoint. The third movement, *allegro*, displayed a lot of originality in its use of "unrhythmic" sforzandos and sudden dynamic changes, and was played with verve to the point of fury. In the fourth movement, the only slow movement of the piece, the violin and viola blended well in their introduction of the theme, and the flute responded in kind. Three variations followed, showing off each of the instruments in turn. This movement ended in a sort of confused cadence which got a few chuckles from the audience.

The fifth movement was a lively *scherzo* followed by a more sedate trio. The finale started off with a short *adagio* section, and culminated in a rousing ending. The performance could only be described as superb.

Thomas Hill played the clarinet freely in the rather jazzy opening of Dahl's *Concerto à tre for clarinet, violin, and cello* piece, and Stephanie Chase and Ronald Thomas kept that feeling going as they became prominent. A rather extended, and perhaps long-winded slow section followed, and was played fluently. As the opening material returned, the piece ended in a vigorous and bubbling *presto*.

The Tchaikovsky *Piano Trio*, opus 50, finished the concert on a grand scale. Although the piece is rather long, the ensemble maintained a pitch of excitement throughout. Randall Hodgkinson played the rather difficult piano part with both emotional appeal and technical aplomb. Stephanie Chase and Ronald Thomas again gave fine performances. There was lovely interplay between the strings as the second theme of the first movement was introduced; there was pathos in the sad ending to the movement.

Frequently in the performance of the second movement the eighth variation, a fugue, is omitted along with a major portion of the last variation. This performance, however, did not make the cuts, and much was gained from the extra material. There was a small problem in the balance, as the cello was often covered up in the louder sections, but for the most part, the players fitted well together. The concert was a joy to attend, and I look forward to the rest of the series.

Richard Gotlib

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2. Select the horses you think will win the first 8 races of the evening.
3. Turn your form in at any entrance window 5 minutes before our 7:30 p.m. post time. Then enjoy your evening!

On Monday, Oct. 22, we will contact the one handicapper from each participating college who picked—or came closest to picking—8 straight winners. If you're the winner from your school, you'll win \$100, plus expense money to return to Rockingham for the finals on Nov. 2. (There will be a winner from each school.) In

case of tie, winner will be drawn by lot.

Win \$500 in the Finals, Nov. 2! If you won the Qualifying Round, come back to Rockingham for a chance at \$500 more... following the same simple procedure again! (We'll furnish the handicapping form.)

The one student who picks—or comes closest to picking—8 straight winners will win our \$500 prize! The winner will be notified by the conclusion of the evening's racing. He or she will receive the \$500 in an awards ceremony in the Winner's Circle.

How to prepare: To do your homework, read a basic book on thoroughbred handicapping. Also, familiarize yourself with the Daily Racing Form (available at newsstands and at Rockingham).

How to find us:



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1. Come early! Leave plenty of time to get to Rockingham and pick your 8 winners before 7:30 post time. Doors open at 6:00.
2. Bring your friends! Every school will want a cheering section.
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4. To practice before the contest, come to Rockingham and sharpen your handicapping skills.

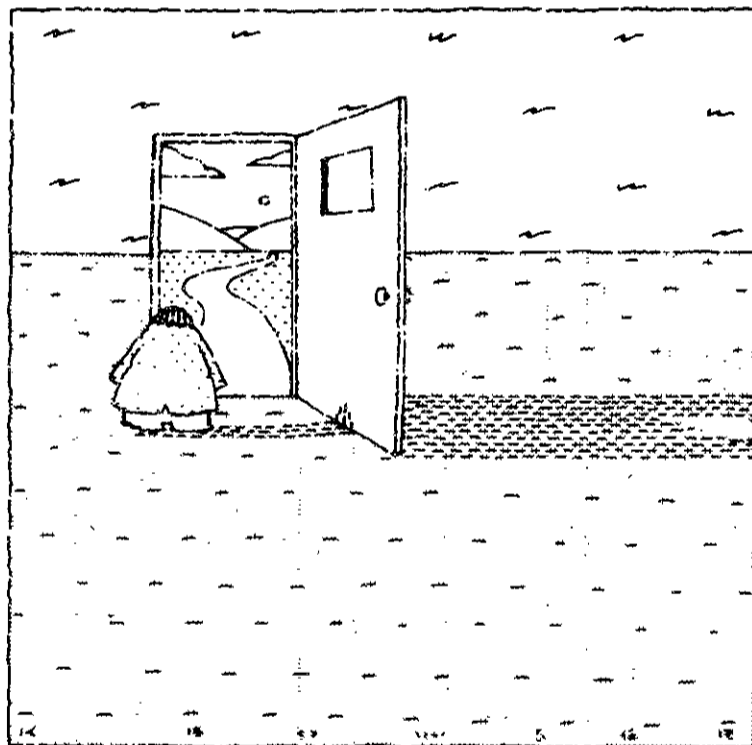
THE GREAT EIGHT-STRAIGHT COLLEGE HANDICAPPING CONTEST

OFFICIAL HANDICAPPING ENTRY

Pick 8 winning horses in the first 8 races on Oct. 19, and you'll win \$100 - and a chance at the \$500 Final Prize on Nov. 2. Use this form to register your picks in the contest. And don't forget to give us your complete name, address & phone number so we can contact you if you're a winner. Be sure to turn in this form at least 5 minutes before the first race, which starts at 7:30 pm. Good luck!

Race #	Horse #	Name
1		
2		College
3		Address
4		
5		City, State, Zip
6		
7		Tel. area code
8		()

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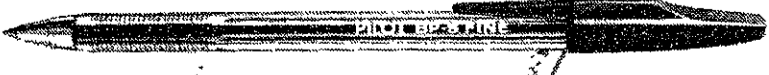


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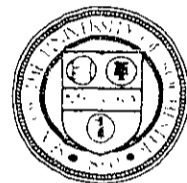
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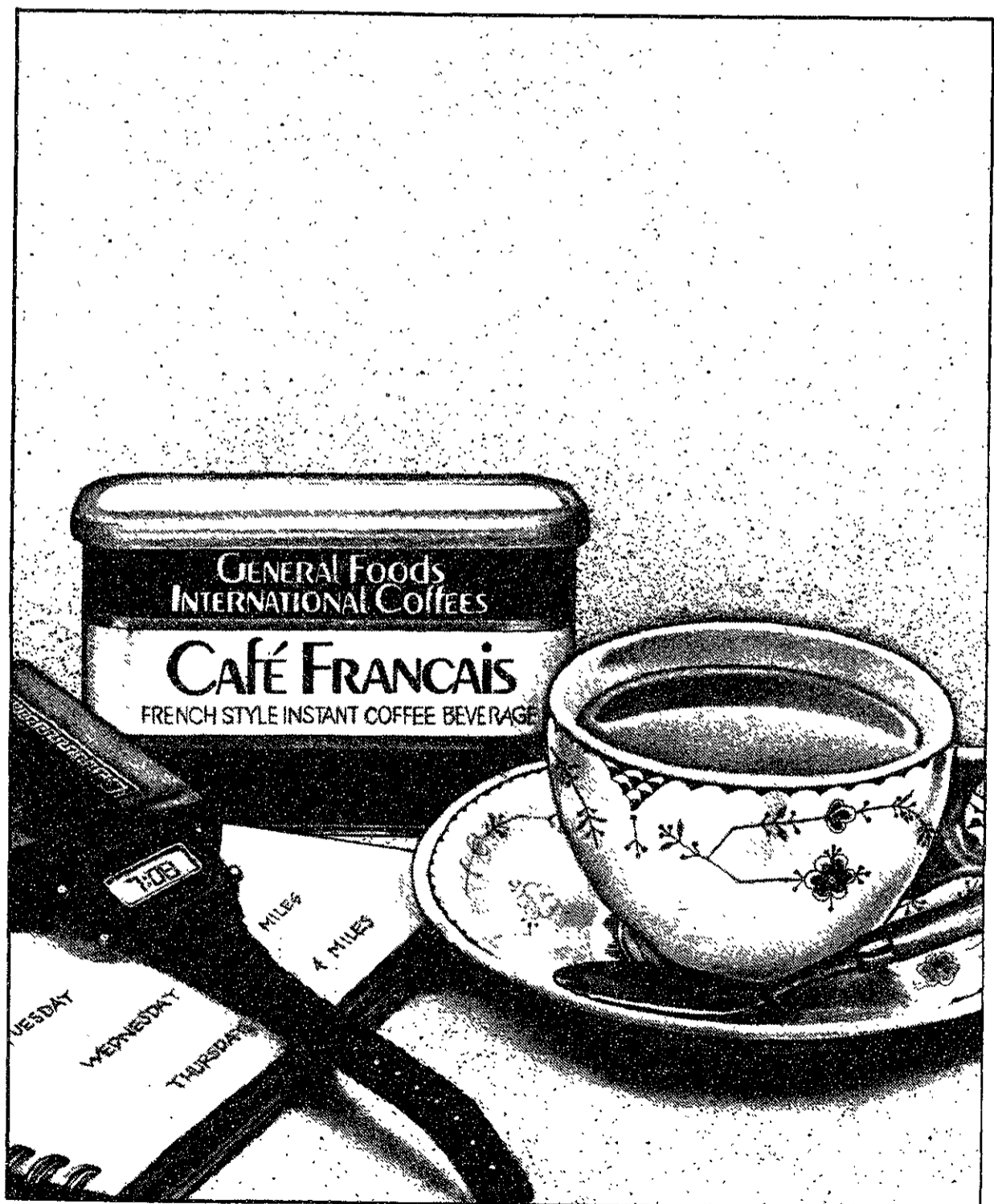
Tuesday 4:00 p.m.
October 16 Room 4-163

2. “What if I Don't Want to Work in Engineering?”

Thursday 4:00 p.m.
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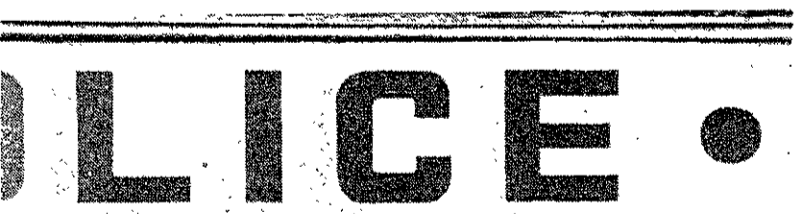
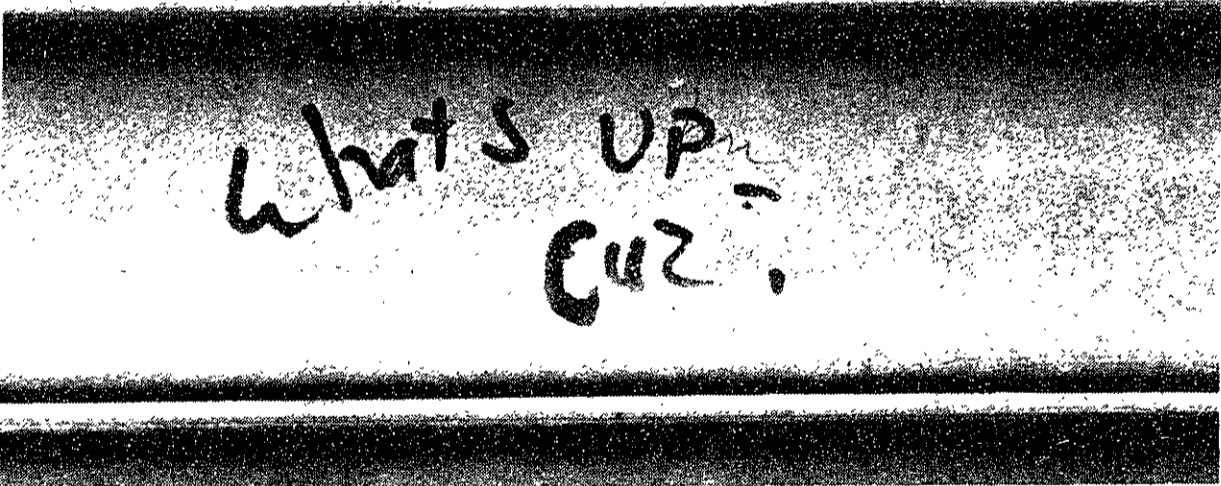
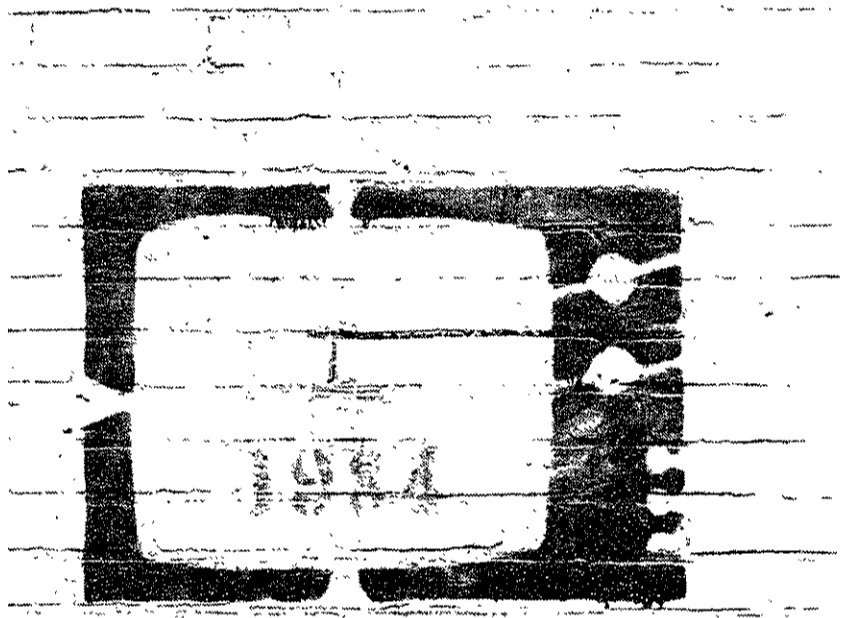
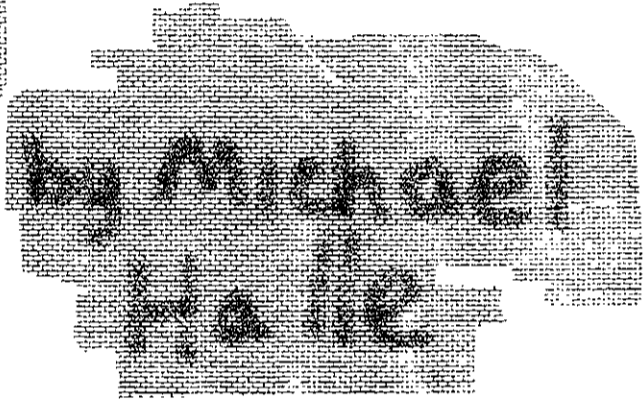
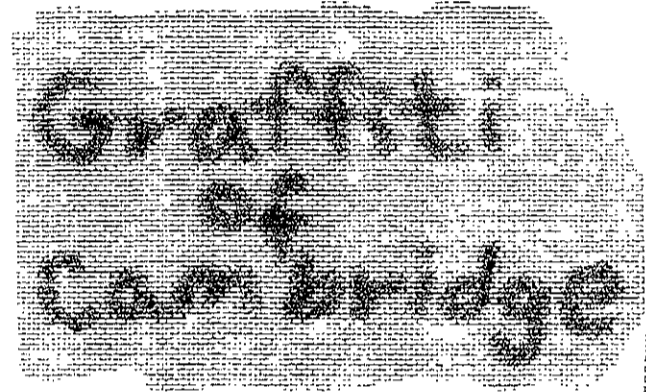


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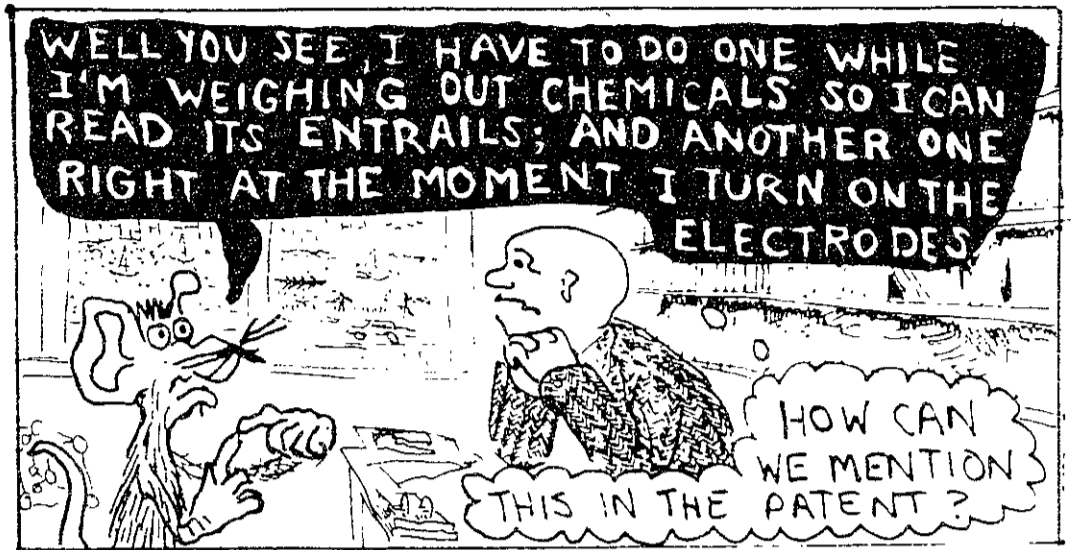
The Legend of Fred

By Jim Bredt



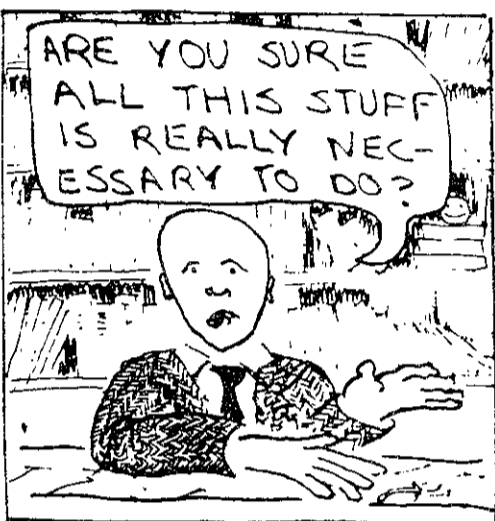
IF YOU HAVEN'T HAD ENOUGH YET, HERE'S THE

I WONDER HOW MANY OF YOU REMEMBER JOE THE RAT. HE'S HAVING A LITTLE DIFFICULTY RIGHT NOW EXPLAINING TO HIS BOSS WHY HE NEEDS TO SACRIFICE NOT ONE BUT TWO CHICKENS BEFORE EVERY EXPERIMENT



WELL YOU SEE, I HAVE TO DO ONE WHILE I'M WEIGHING OUT CHEMICALS SO I CAN READ ITS ENTRAILS; AND ANOTHER ONE RIGHT AT THE MOMENT I TURN ON THE ELECTRODES

HOW CAN WE MENTION THIS IN THE PATENT?



ARE YOU SURE ALL THIS STUFF IS REALLY NECESSARY TO DO?

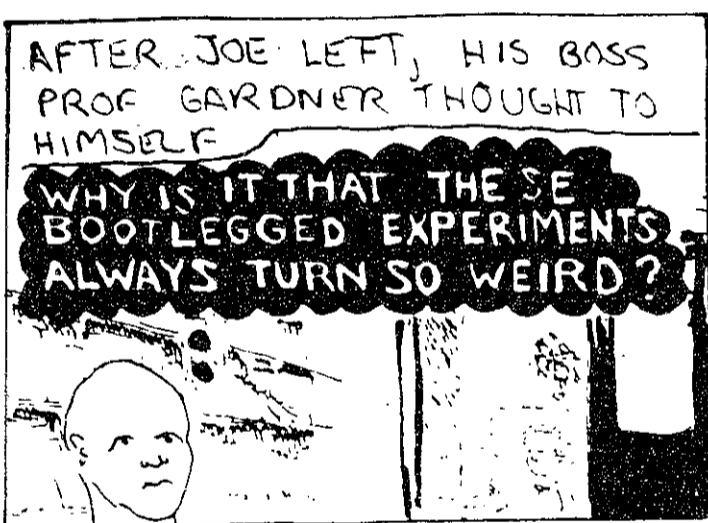


OF COURSE IT IS! LISTEN! THIS PROJECT IS GONNA TAKE SCIENCE TO A NEW LEVEL! THIS IS NO ORDINARY TRANSMUTATION OF METALS! I'VE TAPPED INTO A SOURCE OF REAL POWER!



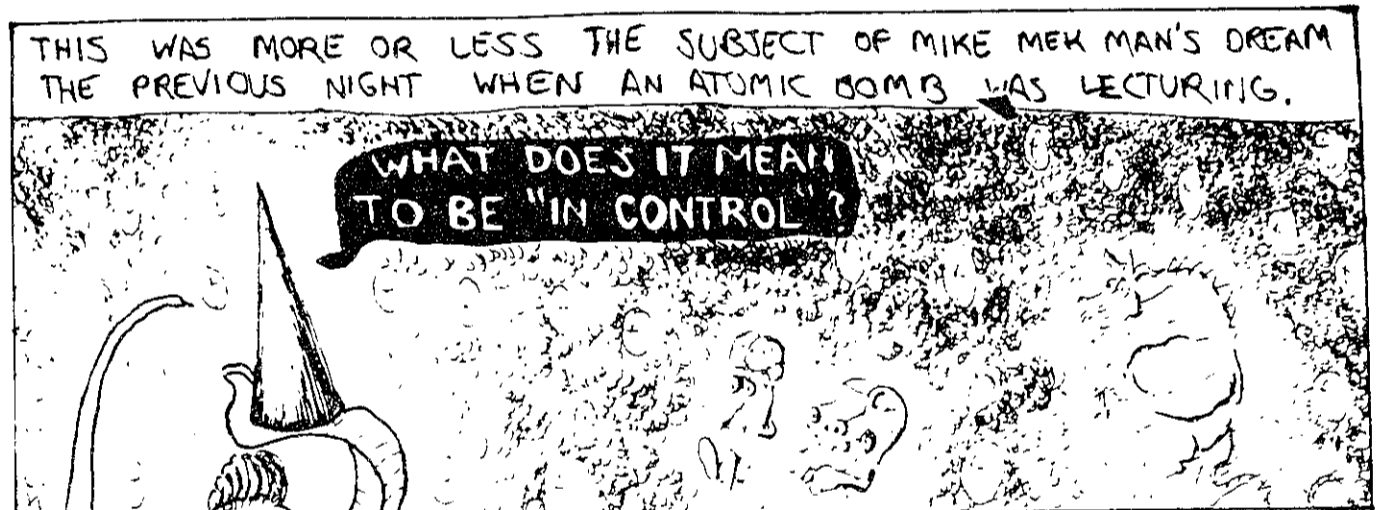
YOU HAVEN'T SOLD YOUR SOUL TO THE DEVIL HAVE YOU?

THERE'S NO DEVIL THERE'S JUST YOUR OWN IMAGINATION.



AFTER JOE LEFT, HIS BOSS PROF GARDNER THOUGHT TO HIMSELF

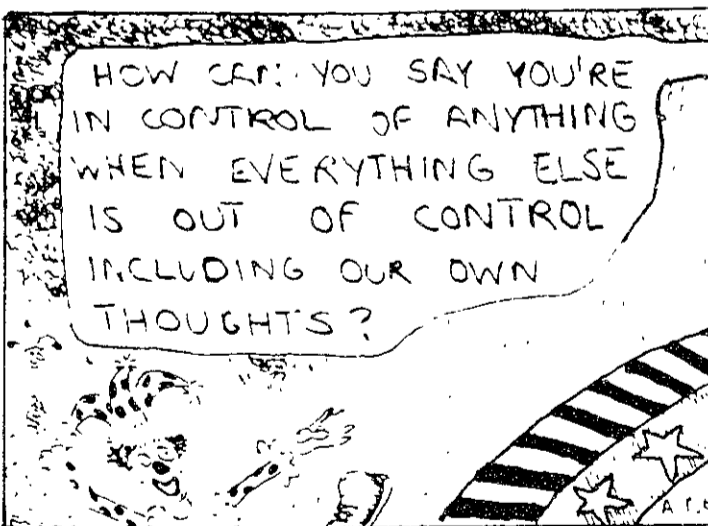
WHY IS IT THAT THESE BOOTLEGGED EXPERIMENTS ALWAYS TURN SO WEIRD?



THIS WAS MORE OR LESS THE SUBJECT OF MIKE MEK MAN'S DREAM THE PREVIOUS NIGHT WHEN AN ATOMIC BOMB WAS LECTURING.

WHAT DOES IT MEAN TO BE "IN CONTROL"?

VOTE RAY SHAMIE



HOW CAN YOU SAY YOU'RE IN CONTROL OF ANYTHING WHEN EVERYTHING ELSE IS OUT OF CONTROL INCLUDING OUR OWN THOUGHTS?

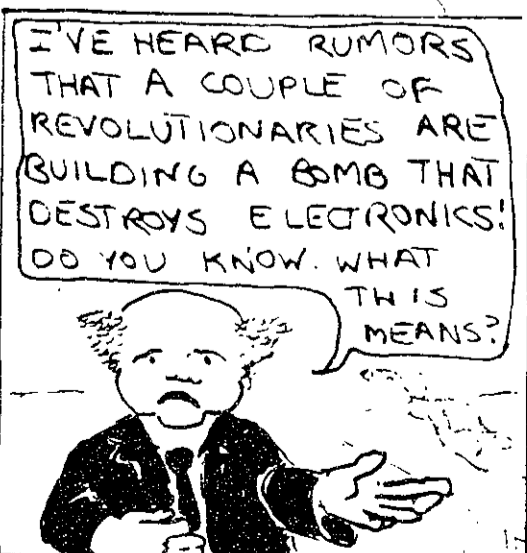
A FEW BEGINNINGS

AN OLD ENDING



THE NEXT DAY MIKE WAS TALKING TO HIS CREATOR, THE INSCRUTIBLE PROE MARVIN, IN THE OFFICES OF ELECTRONIC BRAINS, INC., HIS COMPANY.

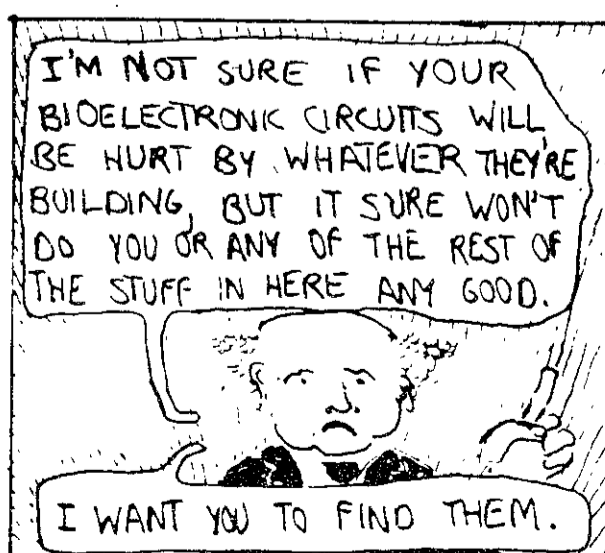
MIKE, I'VE GOT SOME AWFUL NEWS



I'VE HEARD RUMORS THAT A COUPLE OF REVOLUTIONARIES ARE BUILDING A BOMB THAT DESTROYS ELECTRONICS! DO YOU KNOW WHAT THIS MEANS?

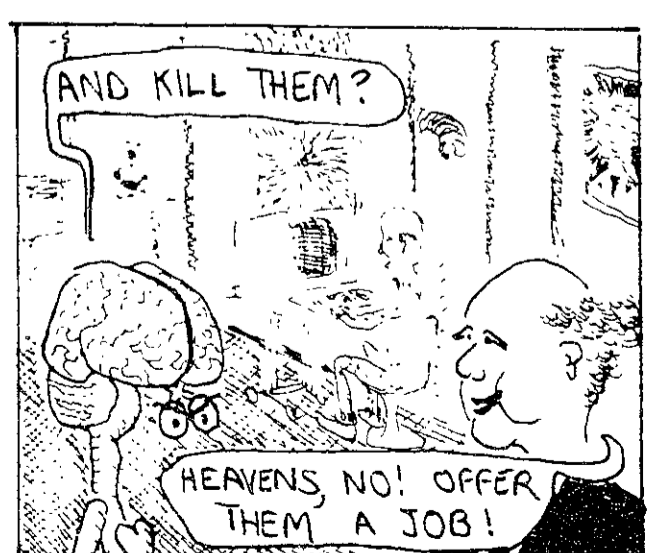


IT MEANS MY ASS IS IN REAL TROUBLE



I'M NOT SURE IF YOUR BIOELECTRONIC CIRCUITS WILL BE HURT BY WHATEVER THEY'RE BUILDING, BUT IT SURE WON'T DO YOU OR ANY OF THE REST OF THE STUFF IN HERE ANY GOOD.

I WANT YOU TO FIND THEM.



AND KILL THEM?

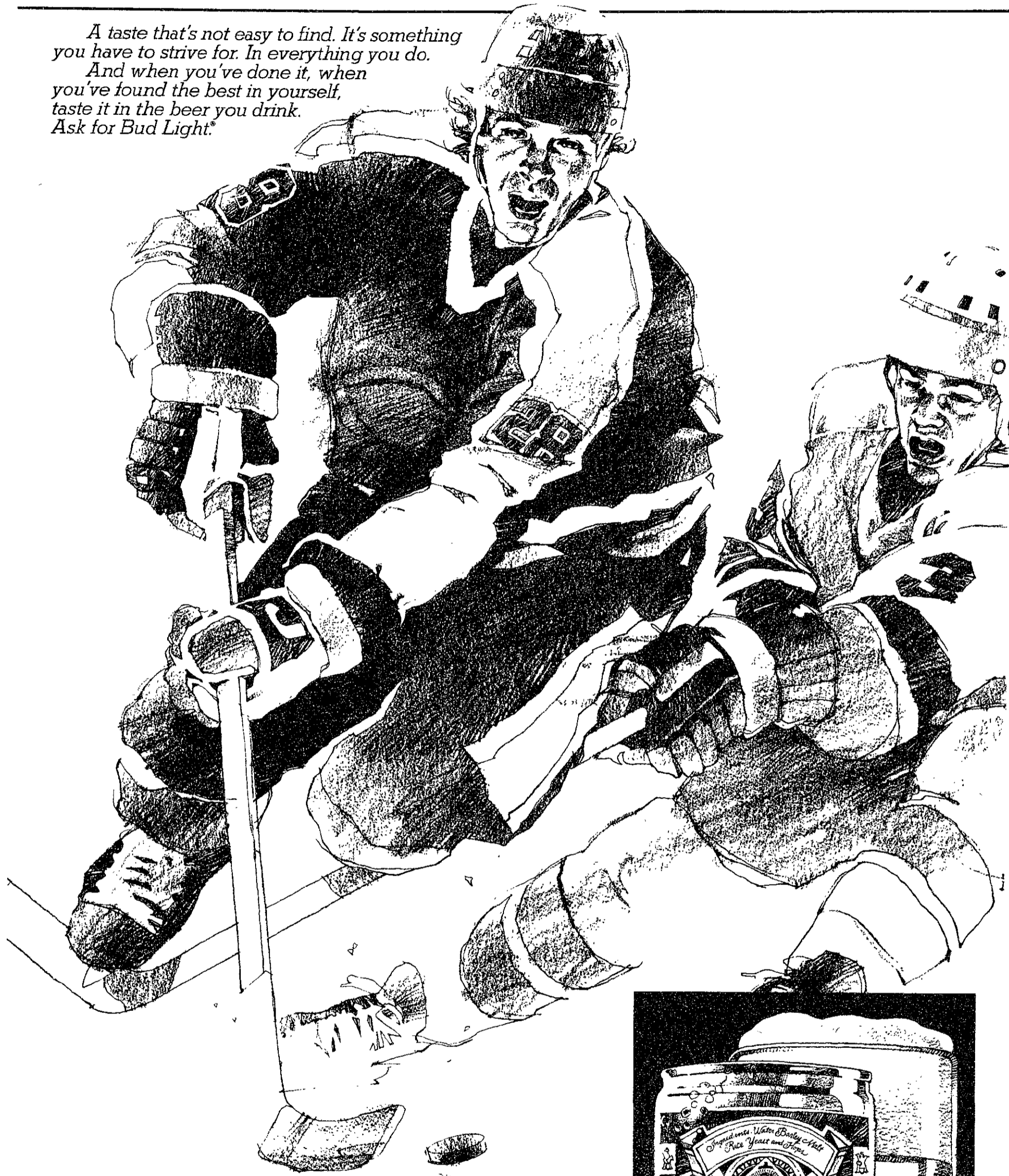
HEAVENS, NO! OFFER THEM A JOB!

The best has a taste all its own.

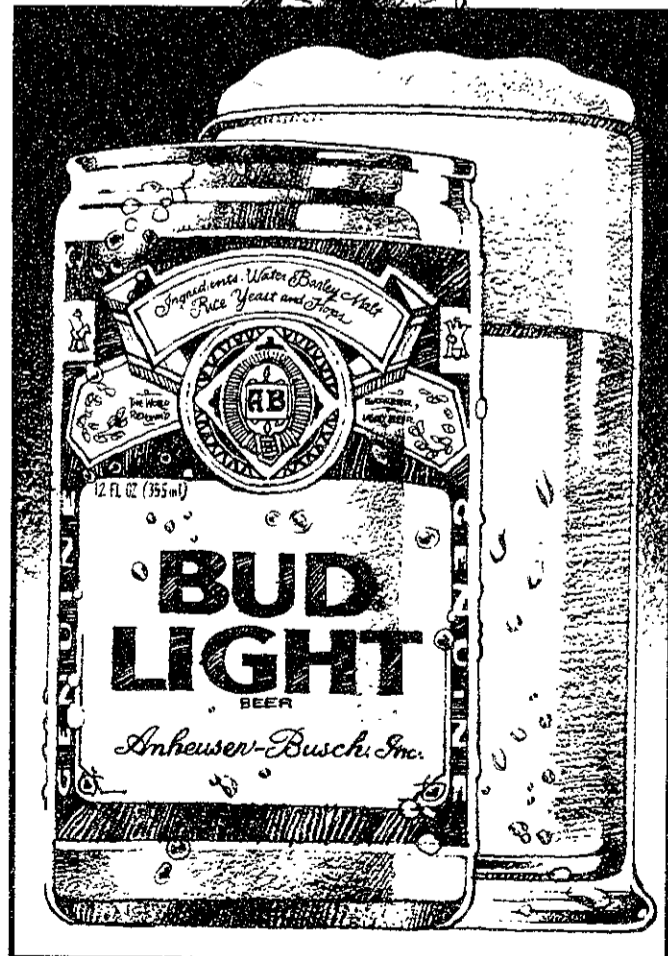
A taste that's not easy to find. It's something you have to strive for. In everything you do.

And when you've done it, when you've found the best in yourself, taste it in the beer you drink.

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Stickles

By Geoff Baskir



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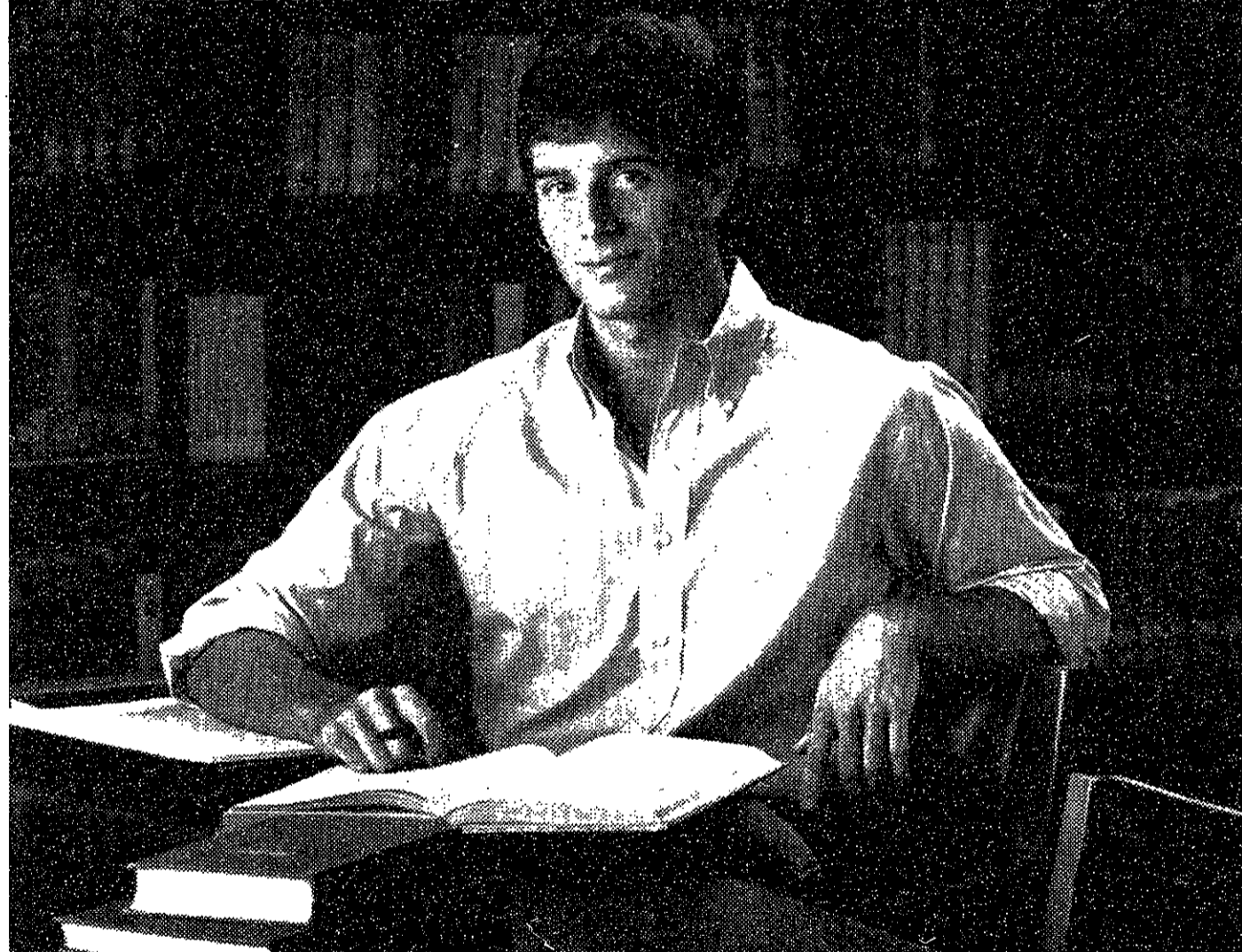
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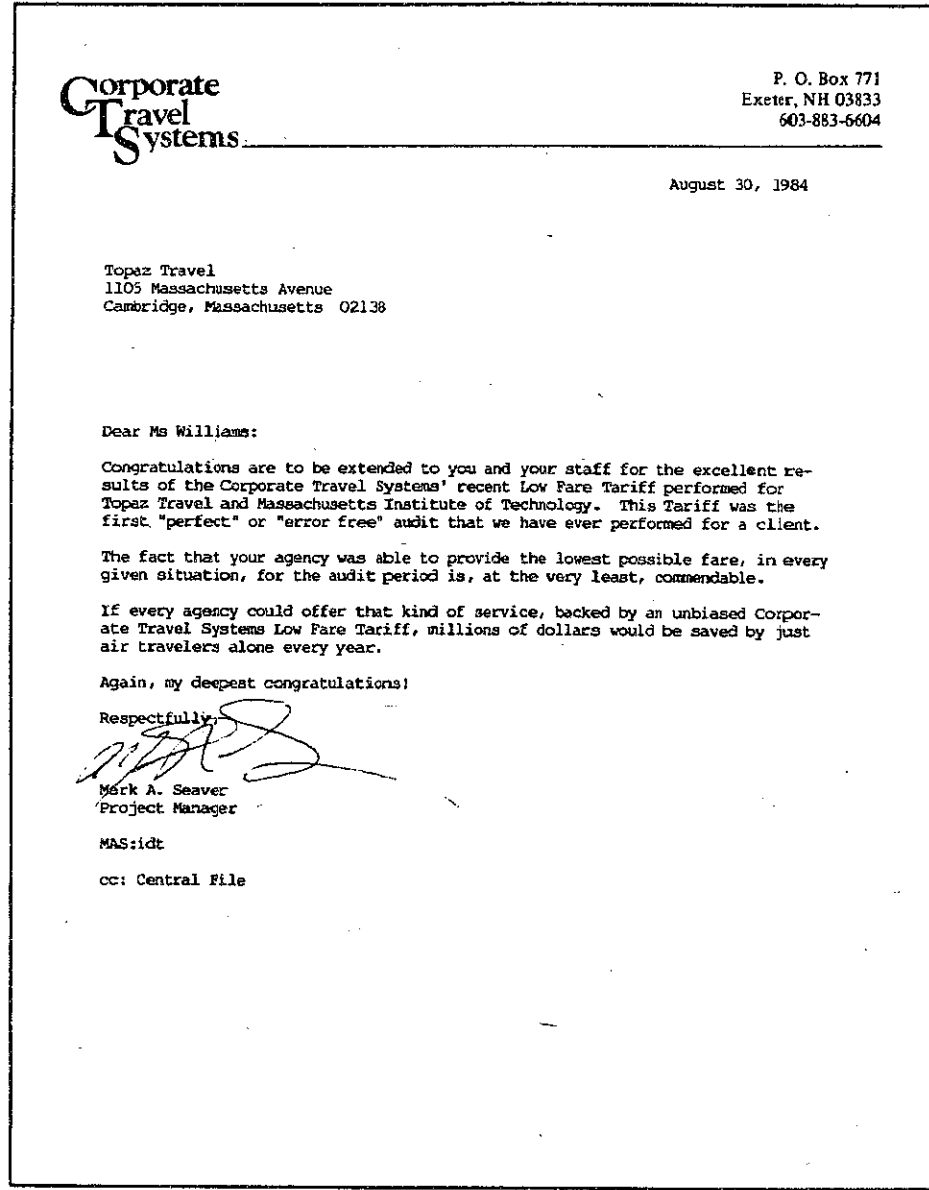
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sports

Sailing finishes second

The men's sailing team placed second among fifteen schools competing in the Northern Series III Regatta hosted by Harvard University Saturday on the Charles River.

The following day the team split up to compete in three regattas. One squad traveled to New Hampshire, where it finished third of seventh in the Dartmouth Bowl.

Another squad vied for the Hood Trophy in a competition hosted by Tufts University. The event attracted some of the nation's top teams. The Engineers placed a respectable eighth in the field of fourteen, finishing just one point behind Harvard.

The remainder of the Engineers stayed at home to compete in the Boston College Invitational, where it captured seventh place in the 14-school event.

The team will be busy again this weekend, taking part in the Wood Trophy at Coast Guard Saturday, and the Greater Boston Championships and the Northern Series IV Sunday.

Soccer goes on scoring spree

The men's soccer team clobbered visiting Suffolk College, 11-0, Oct. 6, breaking a school record for goals scored in a single game. The previous record of nine goals had stood since 1924, when MIT scored nine goals against Northeastern.

Grant Schaffner '88 led the scoring binge for the Engineers with three goals. Lucas Merrow '85 scored his first varsity goal and also contributed three assists.

Following the record-breaking game, the team dropped an away game to Harvard, 4-1. The Engineers quickly bounced back, defeating visiting Nichols, 2-1, Thursday. Josh Spielman '88 scored both goals in that contest, and goalie Mike Schoen '87 made 10 saves.

The team took its 3-5-1 record into yesterday afternoon's make-up game against Brandeis University in Steinbrenner Stadium. The Engineers will be on the road the rest of this week, taking on Tufts tomorrow and Colby Saturday. The squad returns home next Wednesday, when it hosts Stonehill at 3 pm.

Men's tennis ends fall season at 4-1

The men's tennis team, under first-year coach Bob Bayliss, ended its season with a 5-2 victory over host Clark College. The win gave the Engineers a 4-1 final record, capping one of the team's best fall seasons in several years.

Women's tennis wins 9th match

The women's team won its ninth match in ten outings, beating visiting Salve Regina College, 6-2, Friday. The team placed fourth out of six teams competing in the Massachusetts Association for Intercollegiate Athletics

for Women Class "B" Division Tournament at Brandeis over the weekend.

The squad hosts Rhode Island College at 3:45 pm today and will be at Mount Holyoke College Friday and Saturday for the New England Division III championships.

Volleyball faces stiff competition

The women's volleyball team faced its toughest competition of the season when it traveled to Pennsylvania to compete in the Juniata Tournament. The Engineers compiled a 3-3 record against the top Division III teams on the East Coast.

MIT defeated Wilkes College, Pa; Eastern Mennonite, Va; and Cortland State, NY; while dropping matches to Nazareth College, NY; Brooklyn College, NY, and Shippensburg University, Pa.

The Engineers were more successful in dual match play, returning home to roll over Wellesley College in duPont Athletic Center, 15-4, 15-0, 15-2.

The team also participated in

the Springfield Invitational tournament this weekend. The Engineers played five tough matches in one day to take first place in the twelve-team event.

MIT's victories came at the expense of the University of Hartford, 15-12, 15-8; Bentley, 15-6, 15-6; the University of Bridgeport, 15-4, 15-6; Bentley again in the semifinal round, 15-12, 15-5; and host Springfield College, 15-8, 15-5 in the finals.

The volleyball team will be in action again tonight at 7:45 pm against Harvard University in the duPont Athletic Center. Admission is free.

Women first in Franklin Park race

The women's cross country team outran four other teams at Franklin Park Saturday to take first place and raise its record to 5-1. The score of the meet was MIT 27, Simmons 50, Regis College 64, and Emmanuel 94.

The Engineers will end their season this weekend, when they travel to Rhode Island College.

Steven H. Wheatman

Pack running leads to cross country victory

By Robert Zak

The men's cross country team remained unbeaten on the season, overpowering teams from Southeastern Massachusetts University (SMU), Holy Cross, and Springfield Friday afternoon.

The race started with host SMU's Jim White leading a pack laced with MIT runners though the first mile. Each position is assigned a point value, and the scores of the top five runners for each school are added together for the team's total score. The goal of a cross country team is to score as low as possible.

Coaches from SMU, Holy Cross and Springfield were dismayed to find their first few runners competing with the seventh and eighth runners from MIT. The lead pack of Engineers never relinquished its hold on the race during the remaining four miles.

The final results of the afternoon's race reflected excellent races by SMU's Jim White, whose first place time of 24:47 bettered the previous course record by nine seconds, and by Brent Coon who finished first for

Springfield, second overall, in 25:21.

MIT's Bill Bruno '85 passed SMU's Helder Braz for third place overall, and Terry McNatt '87 recorded a time of 25:38 to finish fifth.

The remainder of MIT's top five, Anton Briefer '88, Will Sauer '85, and Eugene Tung '88 all finished with personal records. More importantly, the threesome completed the race before the bottom two of SMU's top five runners. SMU went on to finish second in the meet.

The final results were MIT 35, SMU 43, Holy Cross 71, and Springfield 87.

MIT head coach Halston Taylor was very pleased with his team's efforts. "I guess we couldn't have done much better than that," Taylor said of the Engineers' fast times and close finish.

Williams and Tufts will provide the opposition as the Engineers defend their unbeaten record again this weekend at Boston's Franklin Park in the final meet of the regular season.

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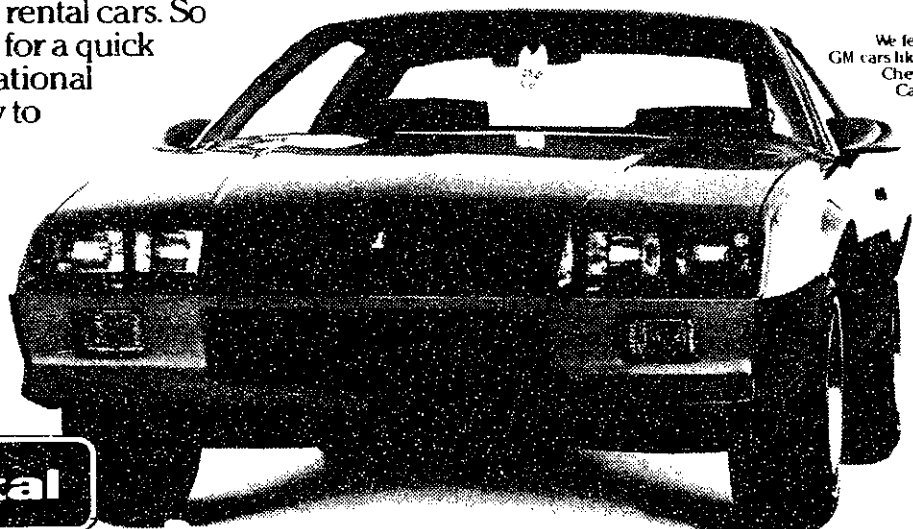
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sporting notices

Entries are due Wednesday, Oct. 17 for IM hockey. There is a \$15 entry fee per team. For further information contact the IM office, W32-121.

Monday, Oct. 22 is the deadline for all IM basketball entries. Contact the IM office for specific information.

sports

Football club falls

By Martin Dickau

A close first-half contest turned into a second-half rout, as the men's football club suffered its first loss of the season, 29-15, at Assumption College Saturday.

The loss broke the Engineers' three-game winning streak and knocked MIT out of the top spot in the league standings.

After winning the toss, nothing went right for the Engineers. MIT was forced to punt after its first three plays, and Assumption took over on its own 20-yard line.

Three plays later, Greyhound quarterback Tim Dolan found wide receiver John Irwin alone behind the MIT secondary and threw a 75-yard scoring strike to give the hosts the lead.

The Engineers were again unable to make substantial progress on their next series and punted once more. The MIT defense, second in the league in yards allowed, shut down the Greyhound offense, forcing Assumption to punt in turn.

The wind-assisted kick went over Shane Arnold '88, MIT's deep man. Arnold elected to let the ball roll, hoping it would go into the end zone, but the Greyhounds stopped the ball on the one yard line.

MIT fullback Dan Curran '85 was hit behind the line of scrimmage on the ensuing play and was tackled in the end zone for a safety, giving Assumption a 9-0 lead.

The Engineers got back to within two points early in the second quarter on a drive set up when linebacker Nick Nowak '86 recovered a Russ Guertin fumble on the MIT 25.

A series of strong runs by Curran and quarterback Dave Broecker G brought the Engineers deep into Assumption territory. Running back Hugh Ekberg '88 found a hole in the line and brought the ball 27 yards to the two yard line.

Chris Adams '87 could not get through on two tries, and finally Broecker forced his way up the middle for the touchdown. Peter Gasparini '88 made his kick good, and the score stood 9-7.

Assumption expanded its lead to 16-7 with slightly over three minutes to go in the first half on a five-yard Guertin run. MIT had a chance to answer, but Ken Corless '86 could not pull down a 21-yard pass in the end zone with 49 seconds left on the clock.

Turnovers proved to be MIT's undoing in the second half. A fumbled punt return set up the first of Assumption's two third-quarter field goals. Tim Jepson split the uprights from 34 yards out to give the hosts a 19-7 edge with five minutes gone in the half, and added another from 23 yards five minutes later on a drive set up when defensive back Ken Harrison intercepted a pass pass on MIT's 42.

MIT cut the margin to one touchdown with just two seconds

Greyhounds, 29-15

AC	9	7	6	7	-	29
MIT	0	7	8	0	-	15

AC—Irwin, 75 pass from Dolan (Jepson kick)
AC—Safety, Garrity tackled Curran in endzone

MIT—Broecker, 1 run (Gasparini kick)
AC—Guertin, 5 run (Jepson kick)
AC—Jepson, 34 field goal
AC—Jepson, 23 field goal

MIT—Broecker, 18 run (Curran pass from Broecker)

AC—Kane, 25 pass from Dolan

	AC	MIT
First downs	13	12
Rushes-yards	54-210	45-196
Passing yards	163	50
Return yards	55	71
Passes	13-6-0	15-5-2
Punts	6-234	6-210
Fumbles-lost	2-1	3-2
Penalties-yards	5-45	1-5

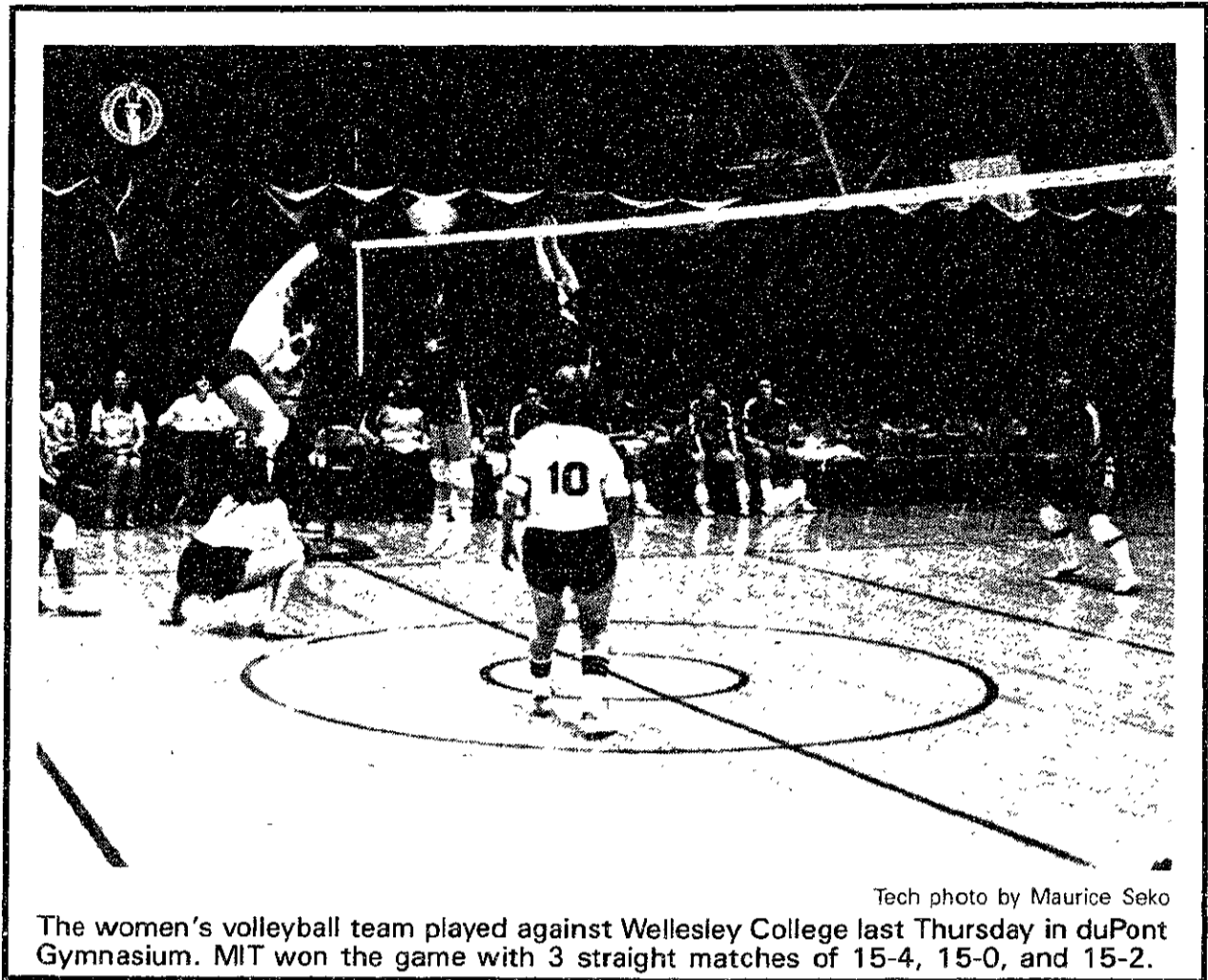
Individual Leaders
Rushing—Assumption, Guertin 23-95, Kane 13-81, MIT, Broecker 16-93, Ekberg 8-61.
Passing—Assumption, Dolan 13-6-0-163, MIT, Broecker 15-5-2-50.
Receiving—Assumption, Irwin 3-101, MIT, Jonas 3-27.

remaining in the third when Broecker ran wide 18 yards to cap a 68-yard scoring drive. Broecker and Curran then teamed up for a spectacular play to get the two-point conversion.

Broecker, beginning his fall toward the ground in the clutches of a defender, tossed a wobbly pass into the end zone, where Curran, himself closely covered by another defender, hauled the ball down for the extra points.

The touchdown was the last gasp from the MIT offense, however, as it gained only 18 yards on seven plays in the fourth quarter. The Engineer defense, tired from having played so much of the contest, fought gamely, allowing only one more touchdown, but two more turnovers prevented the offense from taking advantage of the defensive efforts.

The Engineers will be in action Saturday, when the team hosts Worcester State — the top club team in the country — in the annual homecoming game. The contest will be held in Steinbrenner Stadium and begins at 1:30 pm.



Tech photo by Maurice Seko
The women's volleyball team played against Wellesley College last Thursday in duPont Gymnasium. MIT won the game with 3 straight matches of 15-4, 15-0, and 15-2.

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