

## Course VI fears others top MIT

By Barry S. Surman

MIT may lose its ranking as the premier electrical engineering school in the country, and slip to third in computer science, according to a report being prepared by the Department of Electrical Engineering and Computer Science (EECS).

The draft report says Stanford University's program in very large scale integration (VLSI) may help it overtake MIT as the leading school in electrical engineering. Carnegie-Mellon University, the report says, may join Stanford in ranking ahead of MIT in computer science.

Professor Richard Adler '43, Associate Head of Course VI, said the report is available only to members of the EECS faculty.

EECS Head Joel Moses '67 is preparing the report in response to a request by Gerald L. Wilson '61, Dean of the School of Engineering, that all departments and laboratories in the school analyze their long-term needs and goals, according to Adler. Wilson and Moses are on vacation and were unavailable for comment.

The report may be given to the Corporation Visiting Committee on EECS when it meets for a two-day visit this fall, Adler indicated.

About a third of undergraduate majors at MIT are in EECS, the report states, but only a ninth of

the Institute's faculty and graduate students are in that department, forcing EECS to devote more effort to undergraduate instruction than in the past to maintain the quality of its undergraduate programs.

The department's computing equipment "is clearly inadequate" for its needs, according to the report. In the next two years, it claims, EECS will need at least 100 personal computers.

EECS should spend over \$400,000 annually to replace educational laboratory equipment including computers, the report states, but spends only about a fourth of that amount. Gifts of equipment "simply do not measure up to the real need," it says.

Major developments in the fields of electrical engineering and computer science, including VLSI, robotics, and communications, require "a large investment of time, money, and faculty appointments" for the Institute to gain a leadership position, the report says.

While other schools are diverting resources to concentrate their efforts in electrical engineering and computer science, Moses' report claims, "MIT is not able to readjust its priorities so easily."

The draft says the department's faculty has grown by 15 percent since 1977-78, and "new and re-

## 1141 enroll in Class of '86

By Charles P. Brown

September's freshman class will be the largest entering class since 1975, according to Peter H. Richardson '48, Director of Admissions.

As of yesterday, the class numbered 1141, and approximately 1130 of the 1909 admitted to the Class of 1986 are expected to register in September.

The Class of 1986 will contain about 270 women, a record number, but a lower percentage than last year. The proportion of minority students should be slightly higher than in last year's class, but not significantly, Richardson said.

Applications from women and minority students still do not reflect the makeup of the general population, Richardson noted.

"When I have twice the number of women applicants and twice the number of minority applicants, then we will be talking about success," Richardson said. "That day is not around the corner."

Richardson expects between 80 and 90 transfer students this year,

more than last year's 76, but less than the average over the past several years.

The Admissions Office hoped to enroll between 1075 and 1100 students in the Class of 1986.

"I admitted the same number [of applicants] as last year, and ended up with 100 more" acceptances this year, Richardson said.

Admissions officers thought many high school students would decide not to attend an expensive private university like MIT this year, because of uncertainty about the level of federal student aid available after Reagan Administration budget cuts.

"In spite of these facts, we enrolled a higher percentage of the students we admitted," Richardson noted.

More high school seniors enroll when acceptance letters are mailed before the Institute's spring break, Richardson observed. "[This year] our letters of acceptance were mailed on March 17, the earliest ever," he noted.

"Those years when we have mailed our acceptance letters after

spring break there has been a significant decline in our yield," Richardson said. "The cause of the drop is not clear..."

Spring break, he speculated, provides an opportunity for MIT students to talk to the admitted high school students.

"The minute they discover that MIT students are human, it relieves some of the anxiety," Richardson said.

## MIT signs \$8.5 M research pact

By Barry S. Surman

MIT will receive at least \$6 million from W.R. Grace, a New York chemical manufacturing company, in the next five years to support research projects in microbiology.

Grace will sponsor research focusing on using microorganisms to produce useful biochemical compounds and chemical methods of separating and purifying the products.

All research performed under the agreement with W.R. Grace & Co. will be openly published, according to Kenneth A. Smith '58, MIT's Vice President for Research, but Grace will be given pre-publication review to identify patentable results and proprietary information.

Any patents or genetic copyrights arising from the Grace-sponsored research will belong to the Institute under to the new agreement. MIT will have the right to grant Grace free use of the patents or copyrights, and to sell licenses to others.

MIT will also be able to grant Grace exclusive patent rights for a limited time period. The Institute will choose its patent policy at the start of each sponsored project.

The amount of money MIT receives each year will be determined by a research committee of four representatives from MIT and four from Grace. The committee will select faculty-proposed projects in microbiology for funding.

The agreement calls for MIT to receive between \$500,000 and \$1 million the first year, between \$1 and \$1.5 million the second year, and between \$1.5 and \$2 million each of the last three years of the pact.

Twenty percent of the funds will be available for unrestricted microbiological research by MIT, Smith said.

The agreement with W.R. Grace is part of a welcome trend of increased corporate sponsorship for basic university research, said MIT president Paul E. Gray '54.

MIT is receiving funds "that will help replace reduced govern-  
(Please turn to page 2)

## MIT cutting 400 jobs to reduce budget deficit

By Barry S. Surman

MIT will trim about 400 jobs from its payroll in the next three years, in an attempt to cut its operating budget by \$11 million.

The 15 percent reduction in administrative and support services will be made by cutting programs as well as personnel, according to Senior Vice President William R. Dickson '56.

The Office of the Dean for Student Affairs (ODSA), Student Financial Aid Office (SFAO), li-

braries, and medical department are among the areas facing cuts.

The cuts will not be applied uniformly to all departments, Dickson said, but will be made based on evaluations of individual programs. No decisions on specific cuts have yet been announced.

About half the personnel cuts will be made through normal attrition, Dickson estimated. "The remaining jobs will have to be

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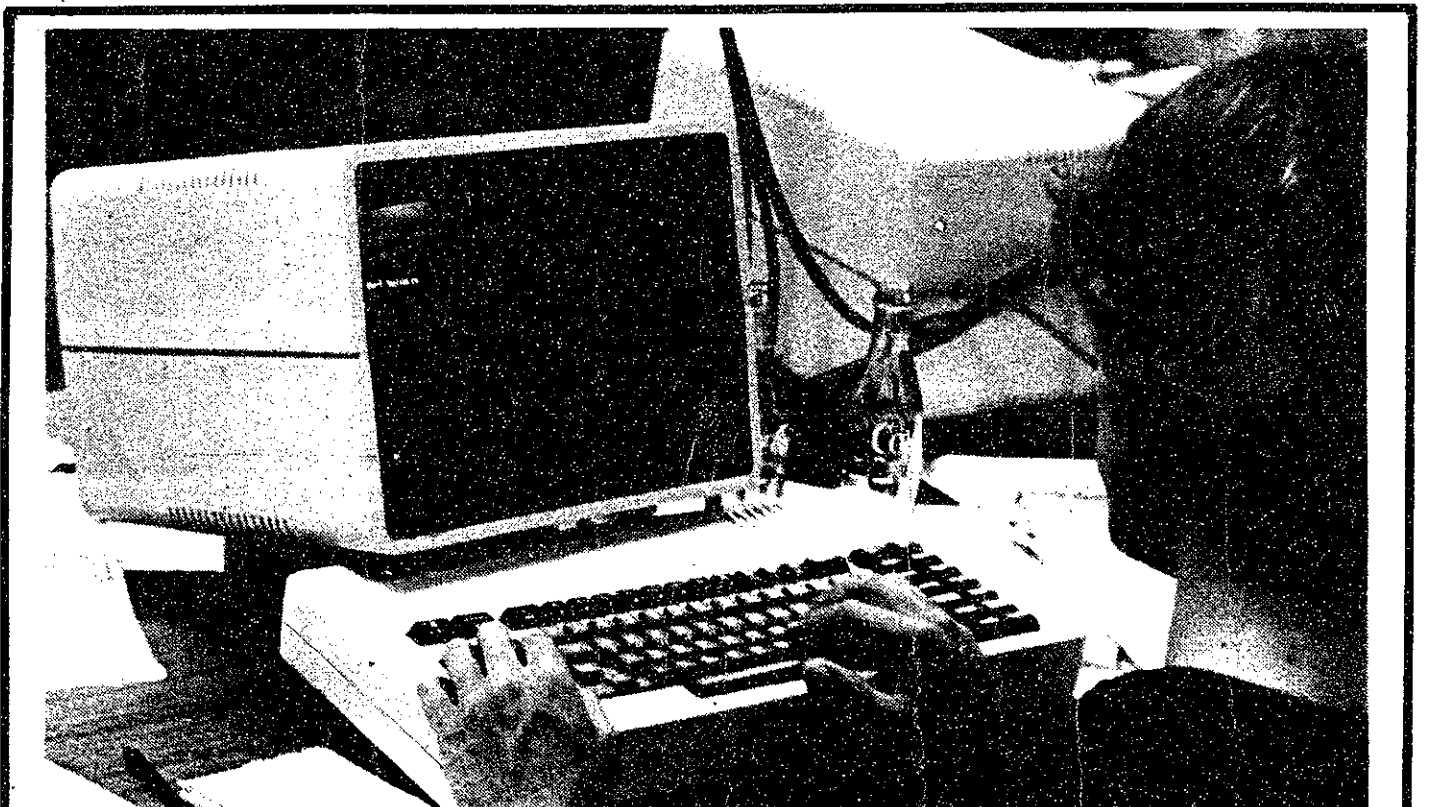
### inside

The governor faces the former governor in a tight primary race, page 2.

Tip O'Neill speaks to students' concerns on financial aid, page 9.

The Class of 1986 may have to share its bedrooms, page 5.

Changes are in the offing for freshman pass/fail, page 12.



The Tech has purchased a new computer typesetting and editing system, used for the first time in producing this issue (see story, page 5).

Tech Photo by Jerri-Lynn Scofield

# MIT to cut 400 admin. jobs

(Continued from page 1)  
eliminated by layoffs," he said.  
Director of Student Financial Aid Leonard V. Gallagher '54 said Institute support for scholarships from general funds will increase by a over 25 percent this year despite the cutback. Gallagher doesn't yet know how large the administrative cuts his office faces will be, or how they will affect the services SFAO provides.

Dean for Student Affairs Shirley M. McBay was not available for comment on how budget cuts will affect ODSA's programs. The Dean's Office is responsible for campus housing and dining programs, student activities, undergraduate academic support, some counseling services, and the Institute's residence/orientation week programs.

## MIT, Grace sign pact for \$8.5M

(Continued from page 1)  
mental support," said Grace senior vice president Robert J. Kunze.

Four professors will represent MIT on the committee: Maurice S. Fox, Lester Wolfe '19 Professor of Molecular Biology; Robert E. Cohen, Professor of Chemical Engineering; Christopher T. Walsh, Professor of Chemistry and Biology; and William G. Thilly '67, Associate Professor of Genetic Toxicology in the Nutrition and Food Science Department.

Dr. Joseph W. Rakis, Dr. Martin B. Sherwin, Dr. Gerald G. Lovinger, and Alan L. Peterkovsky will represent W.R. Grace on the research committee.

the deans of MIT's five schools are reviewing academic budgets for possible additional cuts.

The cutbacks are being made in reaction to an estimated \$2 million deficit in fiscal year 1982. The fiscal year ended June 30.

The MIT budget for the previous five years was essentially in balance, Dickson said.

Without budget cuts, Dickson said, larger deficits would be likely in future years, due to "the lag

between growth rates of revenues and expenses."

The Institute must simultaneously reduce expenses and find new sources of revenue to prevent such deficits, Dickson said.

Other administrative departments affected by the cuts include physical plant, admissions, information processing, campus police, safety, alumni operations, and the offices of the president, vice presidents, and provost.

## Industry ties examined

By Tony Zamparutti

The new agreement between MIT and W.R. Grace is one of a spate of recent research and funding ties between universities and corporations. Government funding for university research has decreased and corporate interest in university research, especially in microbiology, has greatly increased.

Under the Institute's agreement with Grace, MIT can choose to grant either free, non-exclusive patent rights or limited, exclusive rights to the corporation. MIT will decide its policy at the beginning of each Grace-sponsored project.

In addition, Grace will have pre-publication rights to sponsored research. The projects will be proposed by MIT faculty and chosen by a committee of four Institute and four Grace representatives.

Participants from five large research universities—MIT, Harvard, the University of California, Stanford, and the California Institute of Technology—and from several corporations discussed potential problems and conflicts arising from such ties at a conference last March in Pajaro Dunes,

California.

The final statement from the conference described some of the tentative issues and conclusions discussed at the conference.

"If not carefully managed, these patterns of affiliation among university faculty, universities and industrial firms, beneficial though they may be to the transfer of technology, may lead to serious difficulties," warned the statement. "It is important that universities and industries maintain basic academic values in their research agreements."

Participants at the conference disagreed on guidelines for patent agreements with corporations, reported MIT President Paul Gray '54 after the conference.

Participants disagreed whether or not universities should grant the exclusive patent license rights to corporations in return for research funds.

The statement also warned: "It is important that universities not influence the nature of the research proposed by professors, postdocs or graduate students by pressing them to do work of potential commercial importance or to become involved in other commercial activities."



Gubernatorial candidates Michael S. Dukakis (left) and incumbent Edward J. King.

## Governors vie for post

By Richard Salz

With the September primary date looming, the Democratic gubernatorial candidates have stepped up their attacks on their opponents personalities and records.

Former Governor Michael S. Dukakis has recently come under fire for a tape made by a campaign staff member which made fun of incumbent Edward J. King and his wife. While apologizing for the tape, a Dukakis spokesman claimed the tape was never to have been publicly aired.

King staffers, however, claim the opposition is trying to take advantage of an investigation of Stanley Barczak by claiming there is a link between Barczak and King when, in fact, none exists.

Barczak is the subject of a grand jury investigation into corruption in the state revenue department. Barczak worked for King in the 1978 gubernatorial campaign.

So far the major issue of the campaign has been taxes. King's advertising campaign has concentrated on his efforts to repeal the 7.5 percent state income tax surtax originated by Dukakis during his tenure in the State House.

Dubbed "the Dukakis surtax," King is using the surtax as a focal point in his claims that he has

been working to reduce all taxes since his election.

Dukakis' supporters claim the surtax is a sham, however, and in a debate with King Wednesday evening, Dukakis claimed the average Massachusetts family would save only \$5.86 a year if it was eliminated.

The two candidates differ in their positions on crime and law enforcement. King has repeatedly announced his support for the death penalty for first degree murder, saying capital punishment is necessary to reduce the state's high crime rate.

Dukakis is opposed to the death penalty, saying King is using it to cover his failings as Governor. Dukakis claims the crime rate has risen during King's tenure and that a major revamping of the state law enforcement and judicial systems is the only solution.

While King and Dukakis fight it out in the spotlight, the state's Republicans are scrambling to get media attention. At a press conference last week, the GOP candidates offered themselves as an alternative to what they called the "monolithic state government" that is directly responsible for the state's current economic and crime problems.



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# news roundup

## World

**Britain to defend her firms against US pipeline restrictions** — The British government announced Wednesday it would try to protect companies against American penalties if the firms choose to defy the Reagan Administration's ban on the sale of US-licensed equipment for the proposed Soviet gas pipeline to Western Europe. Spokesmen for the Conservative Party government, noting the government would not order companies to defy the ban, felt it could not interfere in the affairs of private companies by forcing them to take action which could lead to a costly legal battle with the US. The company chiefly affected by the US ban, John Brown Engineering, is continuing to work on its pipeline contract, the production of turbines worth about \$200 million.

## Nation

**Reagan predicts slow recovery** — At his press conference Wednesday evening, President Reagan announced that although the present economic recovery will be "more or less permanent," it will also be a slow one. "It's slow now," he added. He placed part of the blame for the slow growth upon Democrats in Congress, asserting that recovery would have been much faster had they approved all of his proposed budget cuts and passed the income tax reductions exactly as he proposed them. Reagan also blamed the Carter Administration for the state of the economy, calling our economic troubles "the direct result of the mistakes of the past."

**Reagan downplays pipeline controversy** — The President described the conflict with Western Europe over the sale of US technology to the proposed Soviet pipeline as "a fight inside a family, but the family is still a family." He added, however, that the Administration would approve the continuation of the sale of American grain to the Soviet Union. On other foreign policy questions, the President expressed uncertainty as to the possibility of a summit meeting with Soviet Premier Leonid Brezhnev in the near future, said he wanted to develop US-China relations while adding that he would not abandon "our longtime friends and allies on Taiwan," and defended this week's decision to certify El Salvador for continued US aid.

**Volcker sees higher budget deficit** — In testimony before the Senate Budget Committee, Federal Reserve Chairman Paul A. Volcker backed the budget forecast issued by the Congressional Budget Office (CBO) which showed a budget deficit nearly \$40 billion higher than Reagan Administration forecasts. Volcker estimated the federal government would have to borrow about \$100 billion by the end of 1982 to cover spending. This estimate was confirmed by the Treasury Department. The CBO presented its forecast, which estimates next year's deficit at \$140 billion to \$150 billion as compared with the Administration's \$114 billion estimate, on Tuesday before the Senate Budget Committee. The CBO further predicts deficits through 1985 ranging from \$140 billion to \$160 billion. The Administration, however, predicts a \$100 billion 1984 deficit and a \$70 billion 1985 deficit.

**House links draft registration to student aid eligibility** — The US House of Representatives, by a 303 to 95 vote Wednesday, approved an amendment to the \$177.1-billion military authorization bill which would prohibit students who have not registered for the draft from receiving financial aid from the federal government. The Senate has already passed a similar measure. Critics of the amendment argued it would create enormous problems for the Education Department and the universities administering federal loan and grant programs. Some representatives argued this action discriminated against poorer students, allowing wealthy students who could attend college without federal aid to ignore draft registration. A proposed amendment allowing students to register for the draft at the time they apply for financial aid was defeated 241 to 161. Approximately 700,000 eligible Americans have not signed up since registration was reintroduced in 1980.

Michael Shimazu

a unique Southeast Asian treat

# MANDALAY

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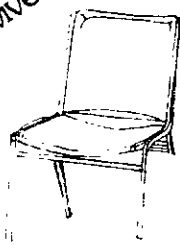
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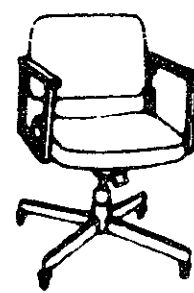
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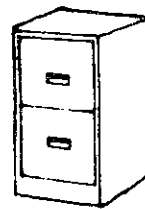
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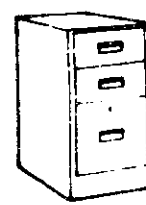
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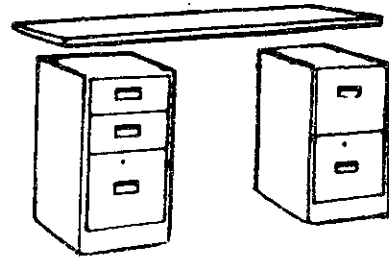
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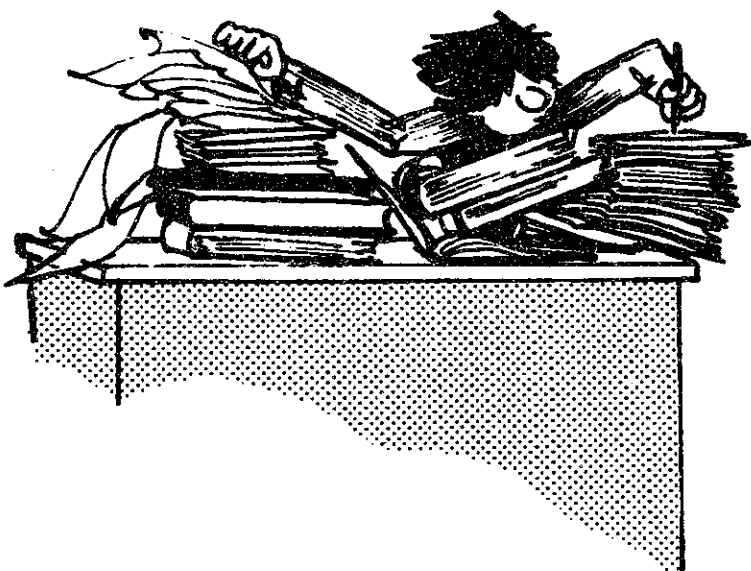


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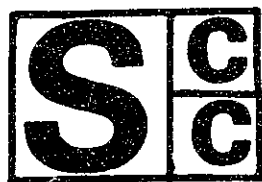
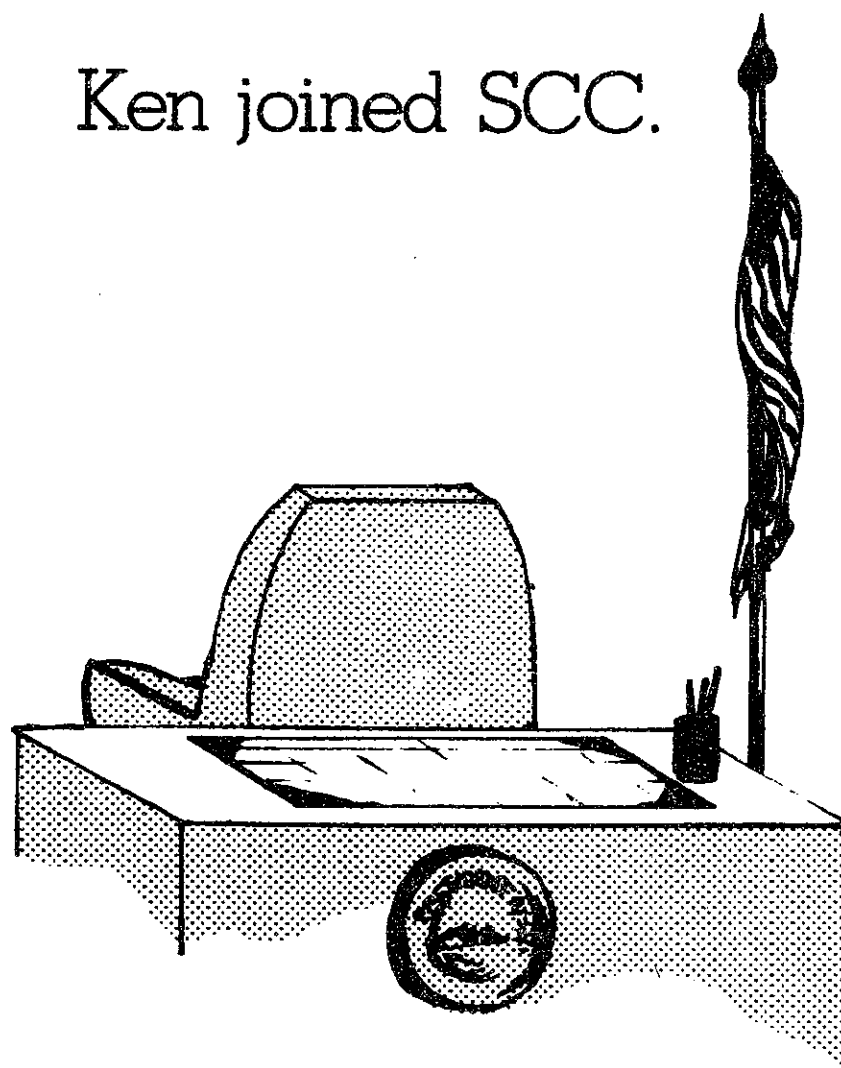
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John was an "A"-student in college.



Ken joined SCC.



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# Opinion

Jerri-Lynn Scofield

## Getting to know and love the 'Tute

August is almost upon us and the new term will soon follow. By now, most incoming freshmen have been showered with information about various aspects of MIT. Forty-four living groups, countless student activities, and assorted academic programs have already sent pamphlets to their presumably captive audience, attempting to pique curiosity and recruit fresh new faces for their cause. Even this issue of *The Tech* is another piece of propaganda, cleverly designed to introduce freshmen to our view of MIT.

There is another message, however, in the pile of mail sent to each entering freshman, that reveals much about the MIT environment. Our community is comprised of myriad interest groups, whose members share little with their supposed peers. Yet MIT itself, a reservoir of enormous talent achievement and a haven for thousands of brilliant individuals, may promote this splintering effect.

When first coming to MIT, I was struck by the lack of any cohesive school spirit. Many students seem to disdain the Institute, while at the same time reveling in enjoyment of an individual project or experience that only MIT made possible. This appreciation for the parts and disdain for the whole is paradoxical.

One reason many students profess little love for the Institute is rooted in the apprehension we all felt the summer before arriving here. The Institute's reputation is well-known, and many students are terrified, usually unjustly, by the prospect of entering such a vibrant, high-powered intellectual environment. MIT is so large, all-encompassing, and overpowering that it fails to foster loyalty; it is impossible to get to know, let alone love, all that is MIT. As a whole, it is difficult to swallow; in parts it is much easier to digest.

Another cause for dismay grows from realizing it is impossible to excel at everything MIT offers. Most of those who come here are accustomed to being the best at whatever they set their minds to do. To learn otherwise is quite a shock. Frustration at the limits of one's abilities frequently translates into an overblown hatred for MIT.

The variety of experiences available at MIT is enough to challenge anyone who seeks them. The secret to getting the most from time here is identifying a niche and seeking to explore it fully. Such a quest will bring enjoyment and may make you appreciate, if only in part, that which is MIT.

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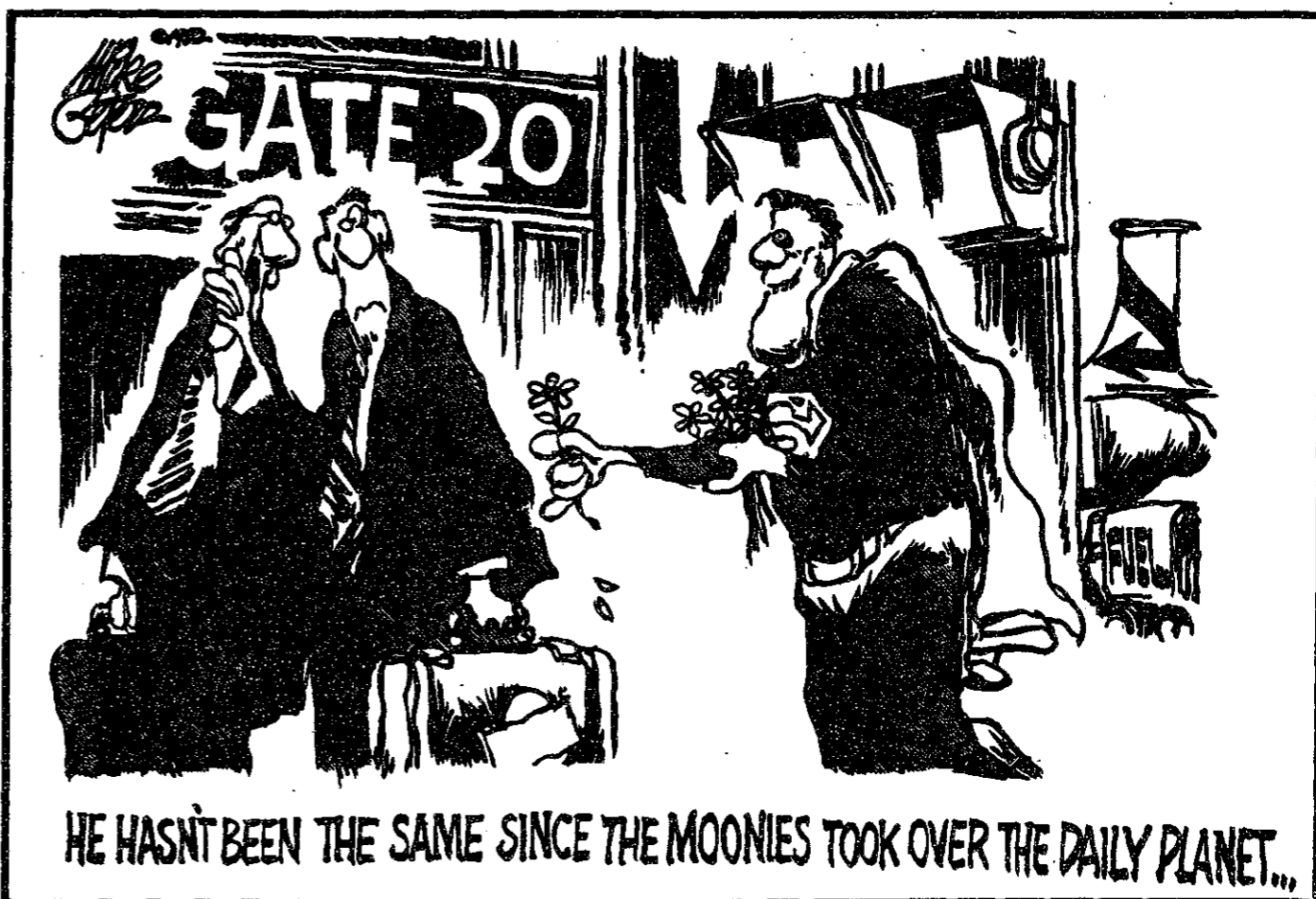
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## ResBook misrepresents

To the Editor:

It has recently come to our attention that the Class of 1986 will be arriving soon. (Gee, I feel old). (Me too). So, the Dean's Office, in its yearly ritual, decided to send out a book to all the freshlings telling about all the neat places to live here at MIT.

Naturally, it isn't possible to give a completely accurate picture of each living group in this book. For instance, it's not a good idea to have Delta Tau Chi bragging that they can outdrink Ruttle House, so all living groups were requested not to mention alcohol in their presentations. Well, a few living groups did have some references to alcohol in the text, or pictures of people with drinks, and in general it looks like the Dean's Office decided to be pretty mellow about it, because quite a few of these actually got published in the book.

But, lo and behold, they did see fit to "reserve editorial prerogatives" in a big way in the case of Senior House. The house motto, "Sport Death," which has appeared in the book in previous years, and never seemed to cause much of a reaction in people beyond puzzlement, has been barred from these hallowed pages. According to an article in *The Tech* (6/1/82), this is apparently because the phrase "Sport Death" is "potentially embarrassing to the Institute or offensive to freshmen or their parents." Well, if the readers of this book are future MIT students, they're going to hear the phrase eventually, so the

embarrassment shouldn't be a concern in this case.

I guess this means that it's offensive. Well, look. The whole point of this publication is to give the Class of 1986 some idea of just what each living group is like. Sure, maybe some freshling would see the phrase and get a little turned-off and not check the place out. Well, fine, the place he'd visit instead would probably be more to his liking, anyway. That's what impressions are for. By the same token, somebody else won't visit Mu Goo Gamma Foo because they all seem like macho jocks. Contrary to Dean Sherwood's wishes, "an environment that all

students will be comfortable in at each dormitory" simply doesn't exist. That's called diversity. That's why we have Rush Week, Bob.

Well, that's sort of the idea. Not that ruding people out is anybody's intent, but that the whole presentation gives an impression. And in the case of Senior House, "Sport Death" was supposed to be part of it.

So, basically, some house officers, residents, and groupies of Senior House are concerned about the Dean's Office decision. Some people "wondered if it was drug related."

Jean J. Cote '83

## Food trucks sorely missed at lunchtime

To the Editor:

The purpose of this letter is to call attention to our distress at the banishment of the food trucks from Mass. Ave. At the least, we would like an explanation of this. There are a number of reasons why we think the trucks should be allowed to return.

Compared with the cafeteria food service provided on campus, the fare available at the trucks is, quite simply, better. There is a wider array of choices, the food tastes better overall, it is portable for those of us who eat lunch on the run and it is more economical. Also, as epitomized by the exam-

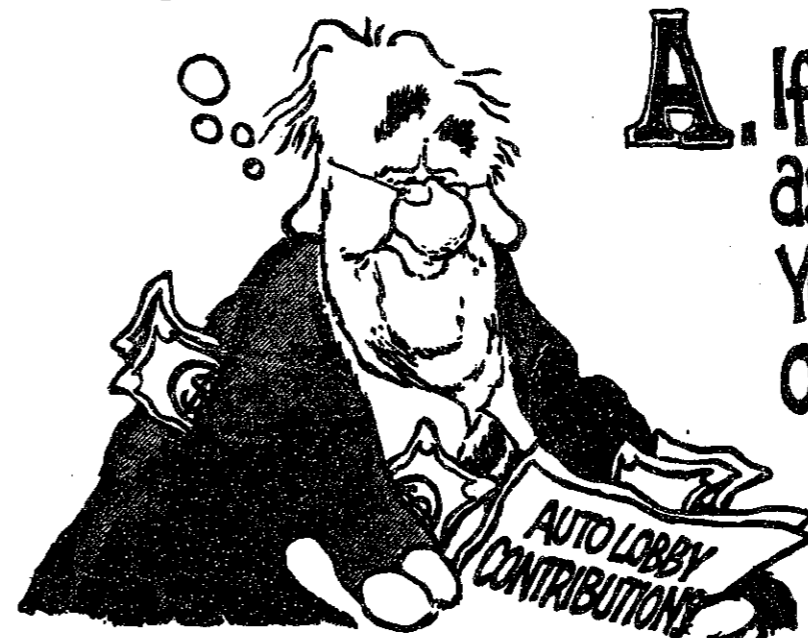
ple of Andy (the man who operates the hot dog cart), the service is friendly and fast. Generally, the financial well-being of the people who serve food from the trucks is dependent on how much business they do and because of this, we think they try harder. Unfortunately, this cannot be said of the cafeteria employees.

All we are asking for is the opportunity to choose, within a reasonable distance of our work place, what we eat for lunch.

Shelly Fitzgerald  
 Edward Kruzel  
 Robert Peisch

**Q. HOW MUCH IS A GOOD CONGRESSMAN WORTH?**

**A. If you have to ask how much you can't afford one...**



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# Dorm overcrowding seen

By Charles P. Brown

The Office of the Dean for Student Affairs (ODSA) says the size of this year's incoming class will force more overcrowding in the housing system than previously planned.

It is too early to estimate how many dormitory rooms will be overcrowded, administrative assistant Barbara Chuck said, but the Dean's Office does not expect overcrowding to be as severe as it was two years ago.

In September 1980, the dormitory system was crowded well beyond capacity. Seven freshmen spent the fall term living in a converted lounge area in the basement of Ashdown House, a graduate student dormitory.

The Dean's Office blamed the overcrowding on the return of more upperclassmen than expected to the dormitories, leaving less room for freshmen.

The fraternities and independent living groups hope to house 415 freshmen this year, 35 more than last year, said Stephen Immerman, ODSA's Advisor to Fraternities and Independent Living Groups.

No fraternities are under rush restrictions this year. Two houses, the Women's Independent Living Group (WILG) and Fenway House, will begin their rush before other living groups, because they need more new members than usual, Immerman said.

The rush goal increased this year because several fraternities were not full last year, and others are increasing their capacity, Immerman explained.

Last September, 62 beds in the dormitory system were left vacant. Associate Dean for Student Affairs Robert A. Sherwood blamed a small freshman class and fewer housing requests than expected from transfer and returning students for the vacancies.

The opening of a new dormitory at 500 Memorial Drive added

about 350 beds to the dormitory system last year.

The Institute plans to install kitchens in East Campus and Senior House, but construction will not begin until 1983, said Director of Housing and Food Services H. Eugene Brammer. The new kitchens will reduce the capacity of those two dormitories.

Two bedrooms in the MacGregor housemaster's apartment are being converted to a two-room double, several rooms in Baker are being reconverted to lounges, and tutors' apartments are being installed in Spanish and German Houses, reducing the dormitory system's total capacity by two beds this summer, Brammer said.

## The Tech buys new editing system

By Burt Kaliski

The Tech installed a new \$72,000 electronic text editing and typesetting system last week, replacing equipment purchased in 1976.

Tech Electronic Newsroom (TEN), an Automix Keyboards, Inc. UltraType 4001, represents the largest single investment by an MIT student activity with its own funds, according to Margaret Gibson, accountant for the Undergraduate Association.

The total cost of the system was approximately \$72,000, said Richard Salz '83, TEN project director.

The Tech borrowed \$30,000 from the Institute to finance the project, Salz said. The money is supposed to be repaid over five years, he said, "but we expect to pay it back well ahead of schedule." The loan is at 10 percent annual interest.

"We wanted to buy a front-end processor and a typesetter," Salz said, "but we couldn't afford both."

The Tech's board of directors decided to purchase a system with high-quality editing features first, he explained, "and we hope to have a good typesetter donated later."

Managing Editor V. Michael Bove '83 remarked, "We can now provide our staff the type of experience they would gain working

for a well-equipped large city newspaper."

"This is the most sophisticated and up-to-date system of its type in use by any college paper," Bove said. "In fact, few professional papers have equipment of this caliber."

"We'll never outgrow this system," Salz said.

Frequent breakdowns in The Tech's old equipment prompted the paper to buy the new system, Salz explained.

In March, The Tech contacted forty companies about electronic newsroom systems. Six firms returned proposals and submitted bids.

The AKI equipment, Salz said, was the easiest system to use, and can interface to a variety of typesetters. These advantages, he explained, as well as the reputation of the manufacturer, led to a contract.

Salz hopes The Tech's old equipment, an older AKI system, can be retired in the fall. The new system, he hopes, will be linked to MIT's Chaos computer network.

Today's issue of The Tech is the first to be produced using the new electronic system.

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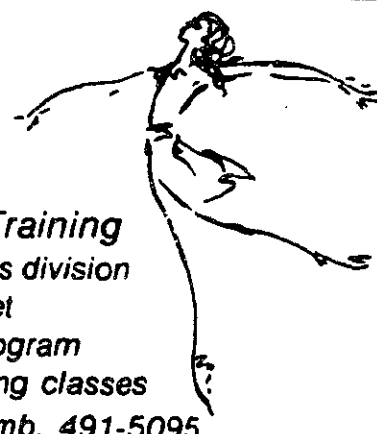
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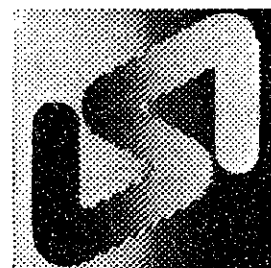
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## CEP drafts changes in frosh pass/fail

(Continued from page 12)

Instructors presently assess freshmen's performance twice a term with written evaluation forms. Some instructors include the letter grade the student would have earned without the pass/fail system.

Under the new proposal, instructors would send freshman students written evaluations in the middle of fall and spring semesters. Instructors would be required to report equivalent grades for freshmen at the end of the fall term on those evaluation forms. At the end of spring term fresh-

men would receive a printed sheet of their equivalent grades from the Registrar.

The hidden grades are intended to be seen only by the student and his or her advisor.

The CEP considered changes to the freshman pass/fail system for much of the last academic year. The proposed changes are "stretching the concept of pass/fail a bit," noted Felix Villars, Chairman of the Faculty. "There's considerable sentiment in the faculty that two terms of pass/fail are excessive."

### Attention: Graduate Students

In the next week or so you will be receiving your Financial Registration Packet from the Bursar's Student Accounts Office, E19-215. Among other informational items, the packet will contain your Financial Registration Form which lists your expected charges and credits for Fall Term 83-1. If you expect to receive a TA or RA appointment for the Fall Term and wish to pay your fees by payroll deduction it is most important that you check the box labeled "Payroll Deduction Plan" on the form and return the top two copies of the form to the Bursar's Office by August 2, 1982. This is necessary in order to code your account for payroll deduction and thereby prevent you from being assessed a monthly finance charge as outlined in the new Bursary Payment Plan. Please do not hesitate to call the Bursar's Office if you have any questions at all.



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Imagine a light so bright it cannot be seen,  
Imagine a force so immense that it cannot be subdued,  
Then you have the essence of *Da Force*."

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# ARTS ARTS ARTS

## De gustibus non disputandum\*

**Linda Fratianne Dance and Exercise with the Hits, music and vocals performed by The Beachwood All-Stars, on Columbia Records.**

Aerobicise began appearing on the Showtime cable network during 1981. The five minute shorts presented two or three attractive young women in Danskins stretching and exercising to the throbbing disco beat heard in the background. The tremendous success of the programming in video brought a flock of audio follow-ups.

We all remember Linda Fratianne from the XIII Winter Olympics in which she received a silver medal. Now she provides the voice-over on Columbia's *Dance and Exercise with the Hits*. To the rhythm of such pop hits as "Sweetheart" and "Bette Davis Eyes"—all in remade form, however—Linda's fresh young voice encourages the listener with "... that's it ... now you've got it ... now you're looking great ...". An illustrated instruction manual is included with the album; the manual includes an advertisement for exercise and dance apparel as well as instructions for which exercise routine is to be used during each track.

With the Aerobicise video, new routines appear almost weekly. This is impossible with a record; after two or three listenings, the owner of *Dance and Exercise with the Hits* would undoubtedly begin longing for different steps, faster music, or a new sound altogether. The album is a good start and will serve Columbia's purpose of introducing Linda Fratianne to "a whole new audience via their home stereo systems." Hopefully, a follow-up is in the offing with less talk and a better beat.

Stuart Gitlow



**Hot Space, Queen on Elektra/Asylum Records**

Rarely have groups been capable of attracting both rock and disco fans to their albums. Queen has apparently done just this with *Hot Space*. The first side of their twelfth album is pervaded by bass rhythms, quite familiar to funk listeners but only occasionally heard on album oriented rock (AOR) stations. Rapidly rising the charts from this section is "Body Language," released in April to pop, AOR, R&B, and dancemusic radio stations. Freddie Mercury as lead vocalist and Brian May on the guitar even manage to add heavy metal flavor to many of the songs — but not too much flavor: just the right touch.

Side two issues a change of pace as we listen to Queen's tribute to John Lennon, "Life is Real." Memorable lyrics as "Life is cruel/Life is a bitch/Life is real—so real" appear in this cut. Rock groups seem to get a kick out of incorporating lines of foreign languages within romantic ballads; Queen takes its shot with "Las Palabras de Amor (The Words of Love)". The sequence of songs doesn't quite belong in the album, but it *does* sound good. The album is wrapped with a little help from David Bowie and "Under Pressure," also heard on *Queen's Greatest Hits* album, released late last year.

Like all albums, this one takes a few listenings to grow on you. In fact, because of its unusual beats and rhythms, give it a few extra. In May I would have said that one, possibly two, of the cuts on the album were interesting. Now I find eight or nine of the eleven songs worth listening to repetitively, and the rest not so bad that I have to skip them. If you liked Queen before, you'll still like them. If you didn't like them, you may like them now. Give *Hot Space* a try. They even include the lyrics.

Stuart Gitlow

### \*(There's no accounting for taste)

**Hooked on Classics II, Louis Clark conducting The Royal Philharmonic Orchestra on RCA Records.**

Ever since Stars On 45 cut their Beatles medley about 18 months ago, a resurgence in popular music samplers has occurred. We've heard a Stevie Wonder medley, a Beach Boys medley, a Supremes medley, and more recently a Hooked on Swing, Turned-on Broadway, and a Hooked on Classics medley.

The usual complaint is the constant underlying 150 beats per minute thumping. *Hooked on Classics II* has managed to avoid the problem slightly by using the beat for only half the album or so while maintaining a bright, invigorating rhythm which keeps the tracks enjoyable and interesting. Segues between selections have been admirably accomplished, the most amusing being the

that between "Rhapsody in Blue" and "Camptown Races" in the "Hooked on America" track.

Unlike the *Turned-on Broadway* album which seems to be confused as to which song it intends to portray, *Hooked on Classics II* maintains the structural integrity of the original music. This, along with the detailed index on the back cover of the album, makes the record a fun way to learn the titles of compositions you've probably heard many times before.

Tracks on the album include "A Night at the Opera," "Hooked on Baroque," and "Tales of the Vienna Waltz." Definitely worth your attention, *Hooked on Classics II* is a step above the rest of the medleys. Enjoy.

Stuart Gitlow



Graphics by David Shaw

## Medieval mannerisms

**The Medieval Manor, 370 Commonwealth Avenue, Boston, 262-5144.**

The minstrel came out to escort us in shortly after 8pm. We were brought down into the dark recesses of a basement restaurant/theatre just off of Mass. Ave., and greeted by the court jester and the oaf (just ask him), and shown to our table. Although it was a slightly tight fit, the chairs were comfortable, and the atmosphere relaxed.

Soon thereafter, the entire 'company' (the king, the minstrel, the jester, the oaf, and all the wenches) greeted us in song. Then came the food and drink. All you can eat, and all you can drink. First came bread and cheese (and cider, wine, and dark beer), then soup. Then more song, and more food. And more drink. And more food. And more song. And so on.

And so the evening progressed. The food was excellent: tasty, suitably medieval, and suitably filling; the entertainment fun: song, play-acting, and royal courtliness. One comes away most uplifted by the whole thing — even if the immersion is not total

(there is often a jest made concerning recent political events), even if the simulation is not exact — there is enough table-banging, yelling, screaming, eating, and drinking to get just about anyone to let go for a while and enjoy himself.

The cost of all this merriment and frivolity is 21 dollars/person, though, so perhaps it isn't quite suitable as a regular treat. For that amount of money, however, you *do* get all you can eat and drink, and an evening's entertainment, and the flagon you've used, softening the blow to your wallet. Also, the experience of eating a whole "bird" with your hands is rather interesting. If only for once in a lifetime, I would heartily recommend it.

#### Other things you should know:

The food is (I think) kosher (at least in the more liberal interpretations), but not vegetarian. You can drink non-alcoholic apple cider if you wish. It's best to go with a group (3-10 people), and reservations are a must.

Bill Coderre



# Lack of Technique



Technique 1982. Yearbook of the Massachusetts Institute of Technology. Volume

had hoped that the interminable delay publishing *Technique '82* meant that the book would be a significant deviation from norm. I was wrong. An examination of proof copy (it still hasn't been printed) reveals the book to be a manifestation of half-baked *avant-garde*/new wave artistic ideas of the editor. Where previous *Technique* editors-in-chief were content to contribute many photos and add a few personal touches to their book, this year's editor practically forces her taste down our throats.

The adjective that best describes the book is *smaller*. From the overall size of volume (about 8 X 10) to the postage stamp photos that grace many of the pages, every aspect seems to express economy. What will outrage most seniors, however, is the arrangement of the senior portrait section — a collection of photos cropped just to show the faces, rendering the section a sea of similar expressions. If that isn't enough, the portraits are scattered in batches through the first 200 pages, forcing the reader to search long and hard for his (or anyone else's) picture. The arrangement seems to be a tactic designed to force the reader to look at the faces of the book, a task very few will wish to undertake.

With all the time available to *Technique's* photo staff, one would have expected them to explore many of the aspects

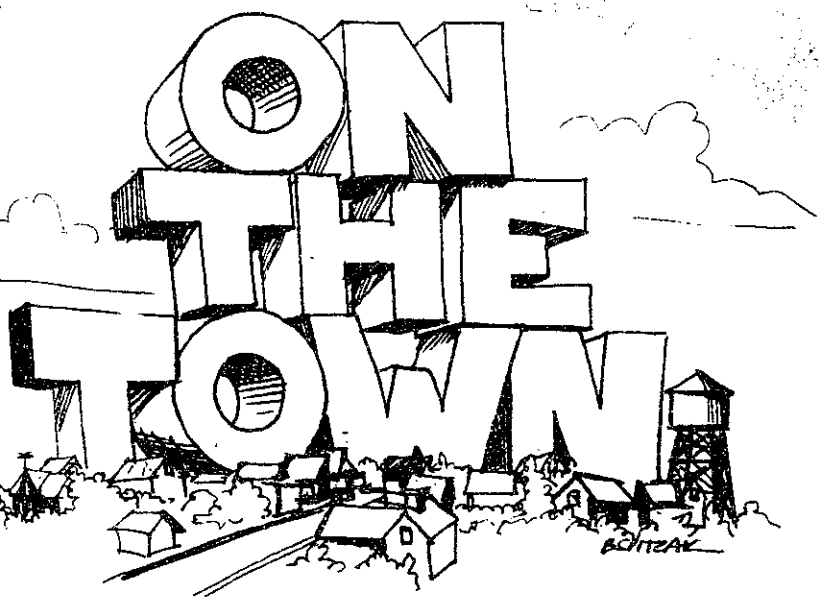
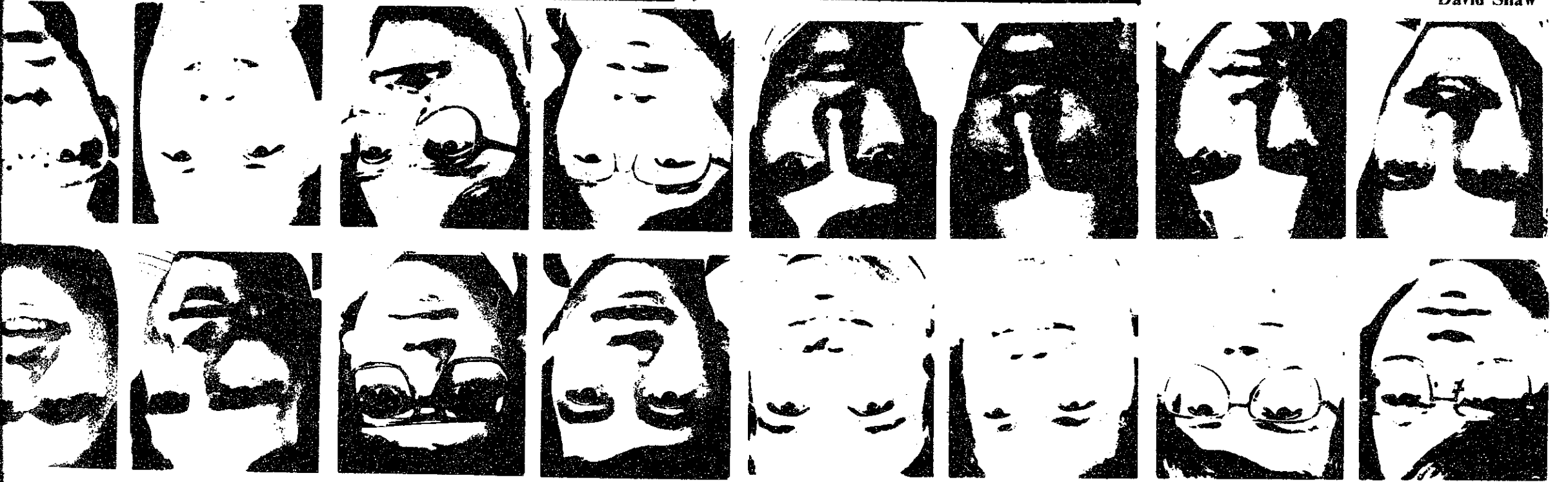


that constitute MIT life. What they actually produced was a dated set of photos of the denizens of Senior House and Central Square plus some artsy bridge photos. Where are the sports pictures? Or the student activities pictures? They've been omitted in favor of the forty pages of hallway photos and interviews (with three professors on the subject of scientific thought). C'mon guys, after three years don't you realize that nobody reads that stuff?

A yearbook is supposed to be a chronicle of a year's worth of life at MIT, a collection of information and memorabilia that allows the reader to recollect past experiences. There's very little in this book to inform us about what happened, the two incidents chosen (articles reproduced from *The Tech*) were George Bush's visit to MIT (a meeting we were not permitted to attend) and the tuition increase (news we'd rather forget). The one positive change in this year's book is the inclusion of reminiscences from various seniors about their lives both in and out of MIT. These observations, scattered throughout the senior portrait section, show the diversity of the students and opinions at MIT, a subject that seems to be ignored in the rest of *Technique*.

In a desire to be different, *Technique '82* alienates; in an attempt to be impressionistic, it obscures; in an attempt to economize, it omits. It won't be worth the wait. At least we'll be able to look at our diplomas.

David Shaw

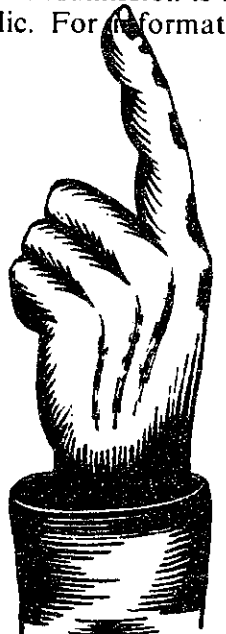


This weekend's LSC movies:  
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**Witness for the Prosecution**, Friday, 9:00 in 26-100.  
**Norma Rae**, Saturday, 8:00 in 26-100.

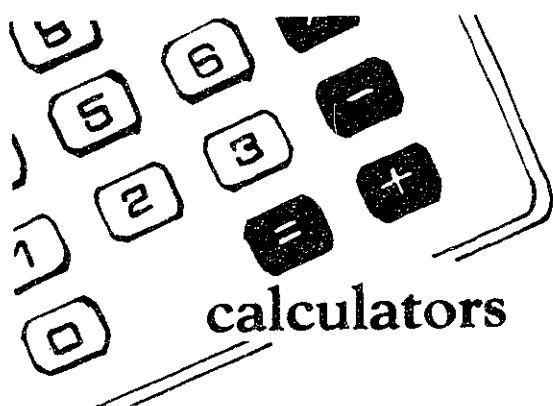
The MIT Community Players present **High Spirits**, a musical comedy by Hugh Martin and Timothy Gray, based on the play **Blythe Spirit** by Noel Coward. The play will be shown on Thursday, Friday and Saturday from July 29 to August 14, plus a Sunday performance on August 8. All shows are at 8:30 pm in the Kresge Little Theatre. tickets \$5, \$4 with MIT ID. For reservations and information call 253-2530.

**The Brood**, the Midnite Movie, Saturday July 31, second floor of the Student Center.

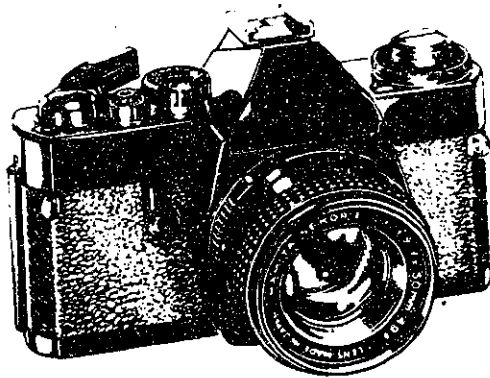
The MIT Experimental Music Studio will present a free concert of **New Music for Instruments and Computer Processed Sound**, on Friday, July 30 at 8:00 pm in Kresge Auditorium. Admission is free and open to the public. For information call 253-2906.



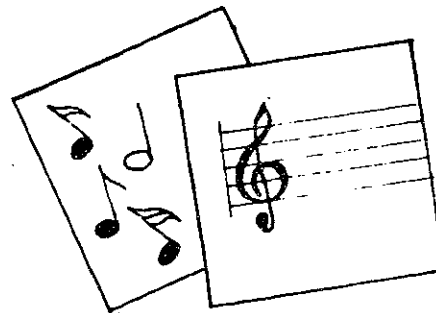
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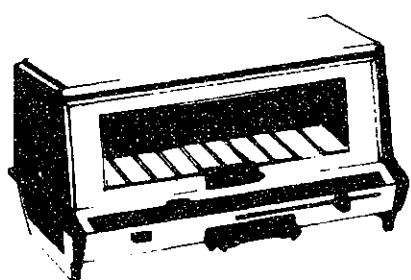
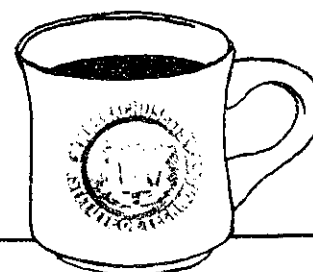


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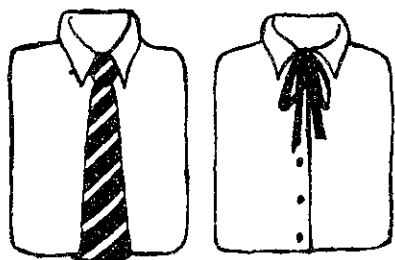


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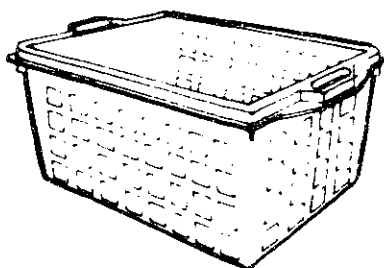
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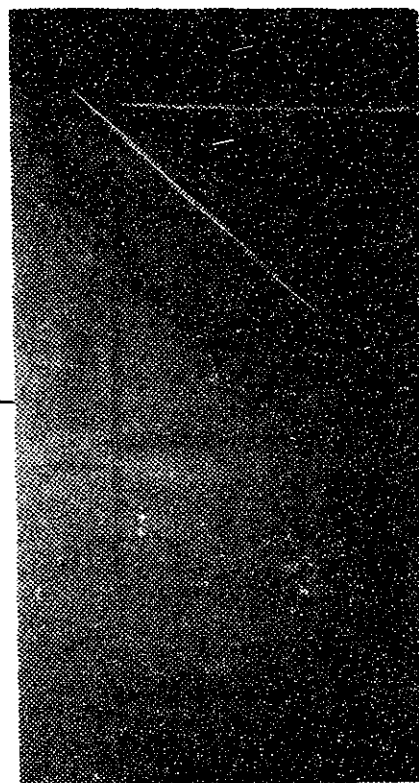
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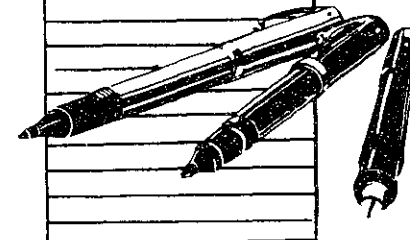
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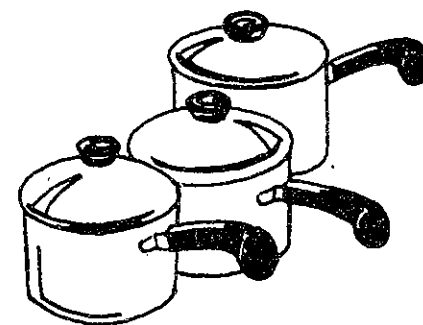
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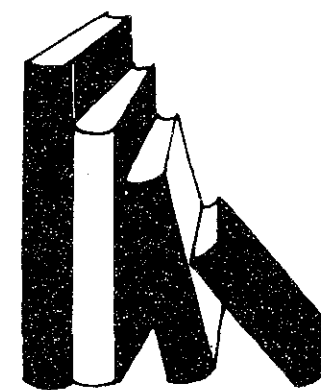
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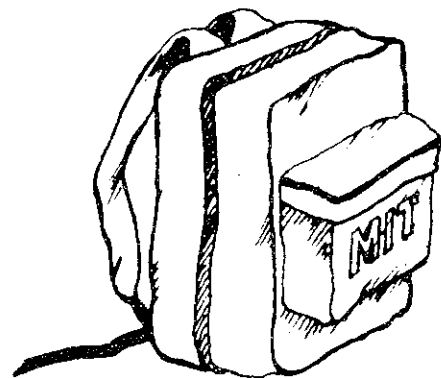
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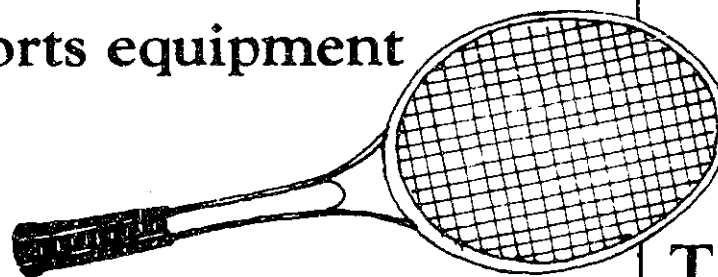


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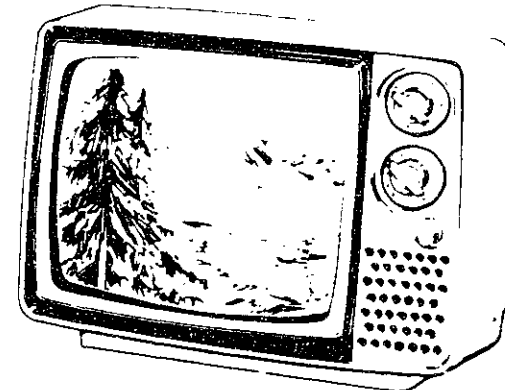


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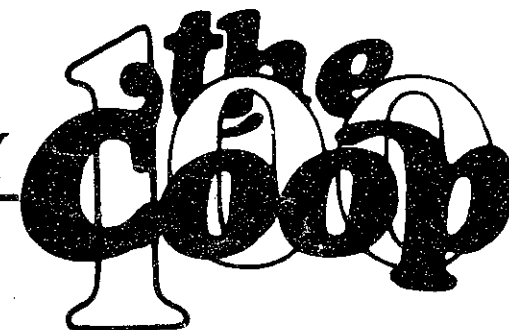
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# Tip O'Neill on education, politics

By Barry S. Surman

Thomas P. "Tip" O'Neill, Jr., Speaker of the US House of Representatives, has represented Massachusetts' eighth congressional district since John F. Kennedy gave up the seat to run for the US Senate in 1952. The Speaker has carried his district, which now includes Cambridge, Boston's Back Bay, Beacon Hill, South End, and Fenway, Allston, Brighton, Somerville, Arlington, Belmont, Waverly, Waltham, East Boston, and Charlestown, with at least 75 percent of the votes cast in each of the last three congressional elections.

**Q:** Mr. Speaker, the President's economic program relies largely upon cuts in entitlements to reduce the federal deficit. How will such cuts affect funding for higher education, and how likely is the Congress to go along with the proposed cuts in student aid programs?

**A:** I would hope that the will of Congress at the present time is that we wouldn't go along with this proposal of further cuts in the field of higher education. But [President Reagan] has been very, very persuasive in the past and the student lobby is only coming into being, and America really acts to the will of the American public.

So his proposals for the future? Of course, he wouldn't expect to do and hope to do the same as he did in the social security. If your dad had died . . . and you were receiving social security, you had an automatic education built into the social security system. That has been eliminated. Only those who were in college prior to May 1 of this year are eligible for the social security grant that had been in effect since 1965 and, as you know, that is being reduced out in four years. So the person who gets it for the first year this year, will only get 75 percent the next year, 50 the next one, and 25 the next.

He has the same intent with regards to the Pell Grant, which is only for the poor student, on the basis that they should be put into the same class and category as everyone else in the nation and should get it out of the general education loan bill.

The whole program is completely disturbing to our educational system, and particularly me. I believe that education is the greatest asset that America has and it's the greatest resource that we can rely on for the future. What he's doing to this program is devastating. We're so far behind West Germany and Japan today in technical abilities and skills; some people estimate that we're about 10 to 20 years behind them. To be tinkering and spoiling and devastating the student loan program at this time is disastrous for the nation.

**Q:** I believe there are 22 colleges and universities—

**A:** About that in my district.

## "We have devoted too much of our research and development to military might. . ."

**Q:** If the President's program, or something resembling it, is enacted, how do you think it will affect—

**A:** We think this year, because of the effects of the program last year, there are approximately a million who will be denied the opportunity of higher education. If the program comes out to its completion, we would have to figure that about 25 percent, or of 12 million students in America, a minimum of 3 million, would be denied an opportunity for an education—most of those in the poorer class level.

**Q:** What about funding for research—research at universities in particular?

**A:** That's another field where we're trying to hold at what the cuts were last year. . . We have devoted too much of our research and development to military might and not enough research and development in the field of health, in the field of improving business, in the field of making us competitive in the word as far as future trade is concerned.

**Q:** How confident are you that you'll be able to defeat the President's proposals, given the narrow Democratic majority in the House and the Republican majority in the Senate?

**A:** Well, if the boll weevils stay together, I don't have a majority, to be perfectly truthful. It's been very interesting that the Democratic party had a higher percentage of voting together last year than we did in the 30 previous years. . . But we have about 50 boll weevils; they're southern conservatives who, through the years, have al-

ways voted for the Republicans. Last year we lost 33 seats to Republicans, and the year before we lost 12. That was a switch of 45 votes. There were always 30 to 35 Republicans—what we called gypsy moths—who through the years always with the Democrats.

The Republicans had an unprecedented 100 percent loyalty in the House. . . The persuasiveness of the President in the media was absolutely devastating, as far as the programs that the Democratic party had built through the years, and that helped make this country great, and consequently we had the losses of last year. But we didn't have the defections from the Democratic party—any more defections, or as many defections—as we had in previous years. We were better united than we ever were, but because of the two things that happened—the loss of the boll weevils and the loss of the gypsy moths—that's why.

Now we figure that we're going to get about 50 percent of the boll weevils back and we're going to get a good portion of the gypsy moths back—the moderate to liberal Republicans—and we figure we're going to have victories around here; that in many instances we're going to be able to thwart his program this year, which will be cutting more severely into the entitlements.

**Q:** With a party that's been divided for the last few years and no President to lead the Democrats, many have suggested that you are the person to lead the Democratic party now. Do you feel comfortable in that role?

**A:** Sure, and I think we've been playing it very well, to be perfectly truthful.

You know, the press keeps saying, "Where are the Democratic alternatives?" They don't appreciate the fact that we always had alternatives. You can't have an alternative unless we report out a Republican bill, and we never reported out a Republican bill. We reported out a Democratic tax bill, the Rostenkowski bill. We reported out the Jones budget bill, and to each bill we offered open rules with the amendments placed in order.

We offered the Udall amendment; we offered the black caucus amendment; we offered—what was the fellow from Ohio there that had a substitute bill? Well, we didn't win on any of them. I think on the Obey bill we had about 150 or 160 votes.

So we have alternatives, and it's to those, the alternatives that we offer, that they offer an amendment or a substitute bill or beat the previous question and offer a bill of their own.

Now, the interesting fact is when the press says to me, "What about the Democratic alternative," I say, "What are you asking me about a Democratic alternative for? We had one before and you never reported it.

All you were interested in was whether Reagan was go-

ing to defeat Tip O'Neill, was Reagan going to defeat the Democratic party, was Reagan going to defeat the Jones bill, was Reagan going to defeat the Rostenkowski tax bill; you were never interested in what the Democratic alternative was. You never told the American public that the Democrats had an alternative bill."

**Q:** So do you feel, then, that it's—

**A:** Well, do I play a part in what our alternatives are going to be? The answer is yes, I play a part in what the alternatives are going to be. Are we working on alternatives? Yes.

You know, the biggest victory we had last year was we stopped the President cold in his tracks with regard to social security. The only time you can stop him cold in his tracks when he's running high is when the American people speak out, and 93 percent of America thought he was wrong on the Social Security bill, and so he withdrew it in a hurry.

You know, interestingly, nobody spoke out on the student loan bill, and so he assumed that he was doing the right thing. Now they're speaking out, now the will of Congress will be—or the will of the American people will be—with Congress in regards to the student loan bills.

**Q:** Then you think it's more productive to fight than to reconcile with the Senate and present a compromise plan?

**A:** Well, we've had a plan of strategy. Our plan of strategy last year was not to thwart the Republicans. I had many



members of my party say I have the power, the power of the Speaker is the power of the gavel, which is the power of recognition, the power of scheduling. Legislation can't get to the floor unless I allow it to get there.

In no way did we frustrate the President's program; in no way did we try to obstruct . . . so it's their economy and it's their deficits that are out there right now. . . The American public was crying for it. That's the will of the Congress; follow the will of the American people out there.

We're the opposition; we're the adversary. Tell them where we were wrong. Now the American people, in the most part, are agreeing with us, that the Reagan program was wrong.

**Q:** You were once a member of the Cambridge School Committee . . .

**A:** Many years ago.

**Q:** What is your view of the future of public education, especially in urban areas, in the next 15 or 20 years?

**A:** Well, I've got so many domestic problems, that isn't one that I've really looked into to be perfectly truthful.

Educationwise there's no question that the local schools are going to be badly hurt . . . from their libraries right down to their food programs, their nutrition programs, and their vaccine programs that they had in the schools, and those are being severely hurt.

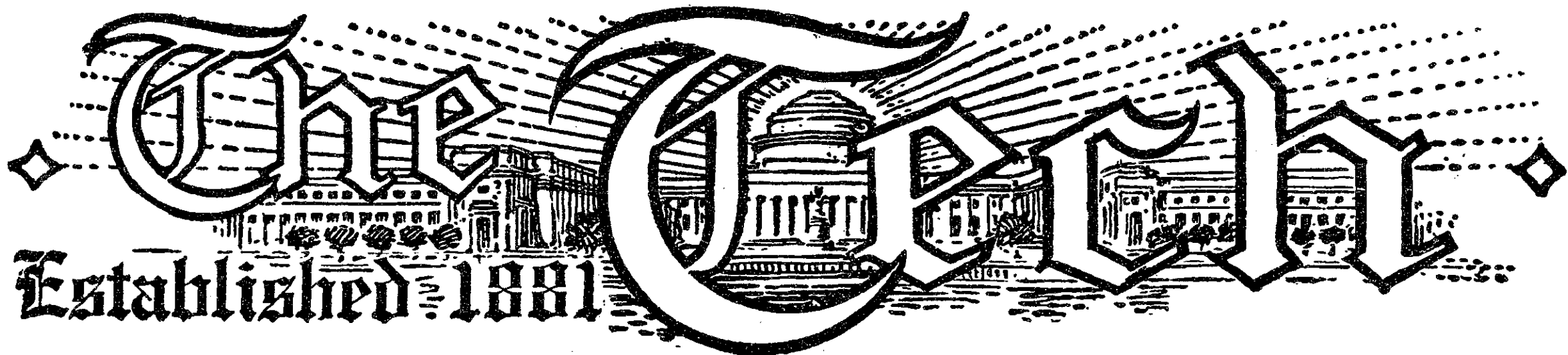
I don't know if that answers the question broadly, but I haven't been asked that before and I haven't given it that depth of thought, to be perfectly truthful.

**Q:** Since attempts to move a constitutional amendment requiring a balanced federal budget through the state legislatures failed, supporters of such an amendment have turned to Congress to call a constitutional convention. How do you feel about the proposed amendment?

**A:** We were within three votes of having a constitutional amendment for a balanced budget. On the face of it, everybody is for a balanced budget. But those who were reporting a balanced budget, the Javits' and people like that, they were reporting in the same way that they wanted a three-year tax bill, because by having a balanced budget the way they would do it, they would strip the programs of little America, of the poor, and of moderate America.

If you were to have a balanced budget in this country on the basis of the amendment that they had asked for, higher education in America would be destroyed. All you'd have out there would be the basis of a military complex, and you lower taxes at the rate that you're going, and I think it would be devastating. . .

I think a constitutional convention would be the most devious thing that this nation could have. It would bring up birth control, it would bring up busing, flags in the schools—prayer in the schools, rather. It would bring up a million things.



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# Councilor says MIT condo buy unlawful

By Tony Zamparutti and Monica Menis

MIT's recent purchase of eight townhouses in Cambridgeport violates two city council resolutions, one binding and the other non-binding, Cambridge city councilor David Sullivan '74 claimed.

Walter Milne, Special Assistant to the President for Urban Affairs, contended neither claim is valid and MIT's purchase was legitimate.

In 1981 the city council passed the "Institutional Expansion Ordinance," prohibiting non-profit institutions from building dormitories in specific residential areas, including the location of the new townhouses.

The resolution defines "dormitory" as any housing for institutional affiliates who are not permanent residents, Sullivan said.

The townhouses will be sold or rented to members of the MIT community who are permanent residents, Milne said.

In 1980 the city council unanimously passed a resolution asking MIT to refrain from purchasing land in the Cambridgeport Industrial Area, which includes MIT's Simplex land, until the Cambridge Planning Board finished a

zoning review.

MIT sent a letter to the council in March 1980 pledging not to purchase land in the area for one year during the zoning review.

The review ended about one year later, but the city council has not been able to pass any zoning change for the area.

"MIT is morally bound" not to purchase property until the city council changes the zoning, Sullivan contended. "The reason the city council didn't do anything is because MIT lobbied us," he added.

MIT is not being fair or cooperative in proceeding with development of the land, including the purchase of the townhouses, with the "excuse that zoning plans are not happening, when in fact the rezoning is being worked on," city councilor David Wylie said.

Milne contended "this particular parcel was never the subject of rezoning by anybody," and added that since the planning board study has been completed, the Institute is no longer bound by its letter or the 1980 council resolution.

MIT purchased the townhouses from the FAR Group; the Institute's sixteen units in the development should be completed in the fall.



Tech Photo by Rod Wester

MIT recently purchased condominiums on the corner of Sidney Street and Putnam Avenue.

# CEP considering the future of pass/fail

By Tony Zamparutti

Next fall the MIT faculty will consider a proposal made by the Committee on Educational Policy (CEP) to modify freshman year pass/fail in several ways, including instituting a system of internal grades.

CEP members are now reviewing a draft report on freshman pass/fail, according to Peggy Richardson, Executive Director of the Undergraduate Academic Support Office (UASO). The report will be published when finished.

As a result of a mistake made by the UASO, this year's Freshman Handbook describes the proposals as having already taken effect, and states, "... instructors will give you letter-grade equivalents as part of your end-of-term evaluations."

"We jumped the gun," Richardson said. The Handbook should have stated "may" rather than "will," according to Richardson.

(Please turn to page 5)

# Course VI fears it will slip from top rank in nation

talized programs in VLSI and robotics ... have received strong Institute support," but the "process of revitalization" must continue for EECS to remain in a position of leadership.

The number of undergraduates in EECS has stabilized, the report states, partly because the number of transfer students accepted by the department has been reduced.

"There are now more undergraduate majors in EECS than there are in all the fifteen depart-

ments outside the School of Engineering," the report says.

One of the four subjects EECS requires all undergraduate majors to take, Computation Structures (6.032), will be expanded to include three units of laboratory when the new EC&G Educational Center is in full operation, the report states.

The department hopes the \$250,000 in new computer and electronics equipment necessary for the change will be donated.

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