

Tech

The Commission on the Quality of Student Life at MIT... the meeting... Office of the Dean... includes a summary... by staff and students... groups... That the... by the subcommittee... sessions... tended to... life, the Commission...

Visiting Committee reports

By Andy Fish

The Visiting Committee on Student Affairs recommended that MIT address its lack of graduate student housing in a biannual report to the Office of the Dean for Student Affairs (ODSA). The committee published the report in October, eight months after the committee visited the MIT campus.

The committee, whose purpose was to examine the quality of student life, advised the MIT administration to renew its commitment to secure funds for the construction of housing. It also suggested limiting tenure in graduate housing to two years.



Many of the committee's findings echoed a 54-page report prepared by the ODSA last spring, which included a statement of objectives and priorities of that office, a summary of a survey on the quality of student life and papers by staff and students on the perspectives of particular student groups.

Holliday C. Heine '67, associate dean for student affairs, said this ODSA self-examination was the most important reason for the committee's visit. It is important "to take the time to think through issues," she said.

The committee believed that, "given the challenges, opportunities, restraints and budget limitations," the ODSA works "effectively on behalf of the students."

It did, however, recommend that the ODSA put greater effective effort into the process of communicating with students. "Too many students do not perceive the Office as a receptive listener and, when appropriate, an advocate of students."

Graduate housing

According to the Ashdown House Executive Committee, 1450 graduate students entered MIT this year, and only 18 percent were assigned rooms in one of the five graduate residences.

In a 1980 survey of graduate students, 50 percent of those surveyed indicated a desire to live on-campus. At that time, MIT only had enough space to house 30 percent of the graduate population.

MIT has established a fund to construct new housing, but this fund is growing at a very slow rate, said Janine M. Nell G, Graduate Student Council president, last September.

The Visiting Committee advised that MIT should change its housing policy in order to attract top graduate students to MIT and to improve the life of the graduate students.

It made two proposals: "(1) a reevaluation of the housing assignment practice to assure that the currently available allotment of housing is assigned in the fairest and most effective method possible, and (2) a renewed commitment on the part of the senior administration to secure funding for the construction of significantly higher levels of Institute-provided graduate student housing."

The committee proposed limiting tenure in graduate housing to two years and giving preference to international students. But limiting tenure to two years would not open up a significant amount of room, said Associate Dean for Student Affairs Robert A. Sherwood.

An alternative, limiting tenure to one year, would give the housing system "no sense of continuity" and a "hotel" atmosphere, Sherwood said.

Frank E. Perkins '55, dean of the graduate school, agreed with the hotel analogy. He added, however, "I'd go along with shortening tenure to one year if that were demonstrated to open housing."

Sherwood and Perkins endorsed the call for more graduate student housing. "I hope that it has an impact," Sherwood said. Graduate housing should be a higher priority on the capital fund, he added. "The only solution is to come up with more housing," he continued.

MIT should be more aggressive in negotiations with the Cambridge City Council concerning the development of the Simplex project, Sherwood said. Graduate housing should be a higher priority on the capital fund, he added. "The only solution is to come up with more housing," he continued.

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(Please turn to page 2)

Yale revises divestment policy

By Earl C. Yen

Last in a series examining anti-apartheid protests at other colleges. Today's article focuses on divestment at Yale University and Stanford University. Both universities have refused to sell their stocks in companies operating in South Africa.

Yale Corporation divided

The Yale Corporation revised

its South African investment policy Nov. 4 which could lead to a partial divestment of the school's South African-related stocks.

The revised policy calls for a review in June 1986 of Yale's investments in American companies which have not followed the Sullivan principles, a standard of desegregation policies for com-

panies hiring workers in South Africa.

The Corporation will review those companies which fall in the lowest category of Arthur D. Little, Inc.'s annual ratings of each company's compliance with the Sullivan principles.

Four of the 19 Corporation members dissented from the new policy, favoring a total divestment of Yale's investments in US companies doing business in South Africa. Paul Tsongas, former US Senator from Massachusetts, Paul Moore Jr., New York Episcopal Bishop, and Eleanor Holmes-Norton, former head of the Equal Employment Opportunity Commission are among the four.

"We believe that Yale's policy on South Africa must reflect a new reality and that full divestment is now the only appropriate course," stated a release issued by the dissenting Corporation members. "Only by seeking to amplify pressure against apartheid can

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Federal... red...

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Student course guide revived

By Donald Yee

The Student Course Evaluation Guide will be published starting in spring term, 1987, according to Dean Dellinger '88, a student heading the effort.

The guide, which has not been published since fall term, 1985, evaluates courses offered in previous terms. It rates professors and teaching assistants on a numerical scale for teaching skill and style. It also offers advice and comments to students interested in taking the courses evaluated.

Former Student Committee on Educational Policy (SCEP) Chairman Mark Fister '86 had said last fall that "a severe shortage of manpower" and "an increase in the number of courses evaluated" led to SCEP's decision to stop publishing the guide.

Almost 200 courses were included in the guide when SCEP cancelled its publication.

Publication of the guide had stopped due largely to the graduation of Steven Barber '84, according to Dellinger. Barber wrote many of the computer programs which had been used in preparing previous guides.

"He wrote some pretty good programs which worked, but when he left, no one knew how to use it as well as he did," said Dellinger. "We're starting with the program itself. We're not going to approach the departments until we have a working program."

An unspecified number of courses offered spring term, 1986, will be evaluated for the spring term, 1987, guide. Dellinger said that he hoped to continue printing a guide every term from then on.

John Keunzig '88 will write the computer program to tabulate response forms based on his previous data processing experience.

Professor Leonard A. Gould '48 of the Department of Electrical Engineering and Computer Science (EECS) is providing funds toward developing the program.

With EECS "being the largest department, we are concerned with getting the evaluations done," Gould said. "I happened to know some students involved with [the guide], so I offered money from the department to help develop software."

The data used in the guide is obtained from forms distributed to and collected from students in certain classes. One side of the form is used for numerical ratings, and the other provides a space for comments. Dellinger said comments for the guide will be chosen based on the number of similar responses made by students.

"I think the guide serves a useful purpose because it gives the

(Please turn to page 13)

Caltech admission yield drops

First of two parts.

By Robert E. Malchman

PASADENA, Calif. — A California Institute of Technology (Caltech) faculty committee report blames increases in the school's tuition and self-help levels for a decreased yield of admitted applicants.

The report, issued by the Ad Hoc Committee on Admissions Policies and Procedures, also stated that the students Caltech wants most are in many cases not applying because of its reputation as a narrow and pressurized school.

Caltech's yield of admitted students deciding to attend in the 1970s averaged 55 percent. That number dropped to 48 percent in 1982 and stayed below 50 percent the next two years. Caltech has

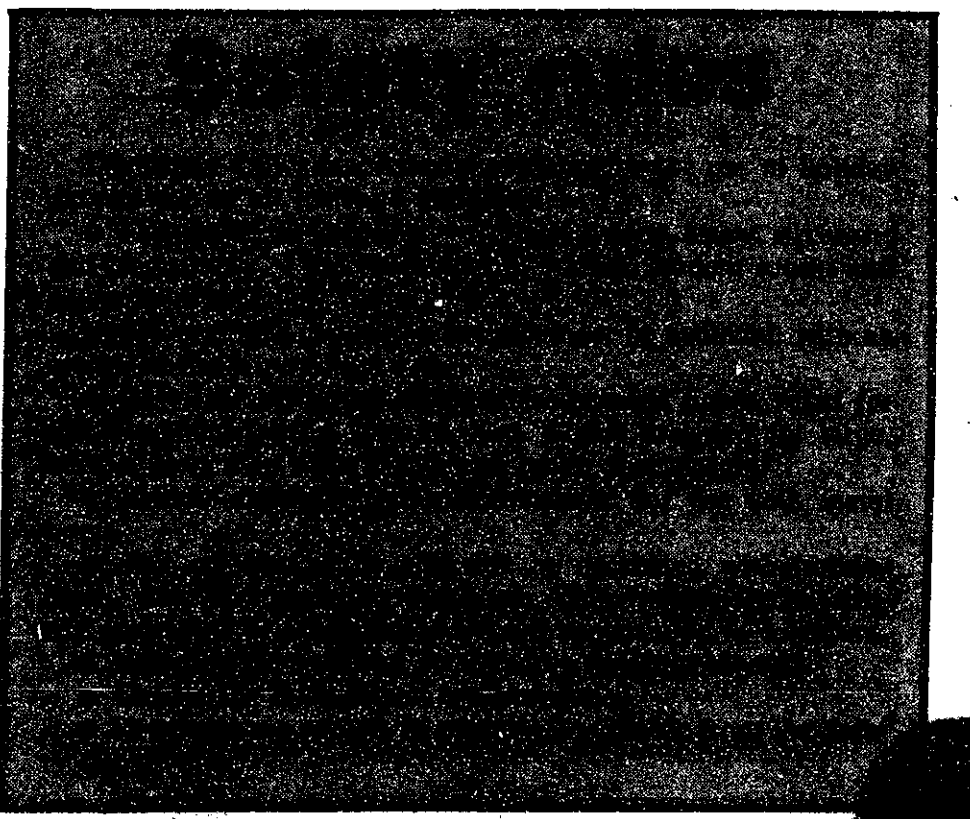
approximately 200 students per class.

The 1985 yield rose over 50 percent, perhaps attributable to "the innovative financial aid packages" Caltech offered, the report states.

MIT yielded 61 percent in 1984 and 59 percent in 1985. Harvard College annually yields approximately 70 percent, the highest in the country, the report stated.

Caltech is losing the more di-

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Committee examines student issues

(Continued from page 1)

ate, staff and alternate fraternity housing could be developed on the site, he said. "If we can get our students out of the Cambridge market it would be beneficial to both sides," he added.

Graduate housing is still a low-priority fund-raising interest, Perkins said. The Visiting Committee's report "puts one more log on the fire," he said. Perkins emphasized the need for strong lobbying in order to obtain more graduate housing. "Pressure from the academic departments would make the difference," he added.

The Visiting Committee also noted that the decentralized nature of the graduate school isolated students. The committee proposed reopening Ashdown dining hall and forming a graduate student center to ease this problem.

Perkins also favored the reopening of Ashdown dining hall. It was a "great place for interaction," he said. He was skeptical, however, that a graduate center would improve the interaction of graduate students. "The problem is not from a lack of opportunities, it is from a lack of time," Perkins said.

The Visiting Committee noted that graduate students were often confused about the roles of ODSA and the Office of the Dean of the Graduate School.

Residence/Orientation Week

Some committee members suggested "a complete review of the current residential policy at MIT." The Institute's residence system is "bizarre from other universities' perspective," Sherwood admitted. MIT alumni on the committee, however, had no complaints about the system, he added.

"We do look at it [residence week] every year," Sherwood said. "We're trying to fine-tune the system." The Dean's Office is currently examining "what we can do to minimize the negative impact [of fraternity rush]," Sherwood said.

Sherwood recognized the benefits of moving some orientation to a later point in the year.

Advising

The Visiting Committee recommended that MIT pay greater attention and allot greater resources to its advising system.

It proposed: (1) naming one advisor that a student would have for several years and providing

that advisor with incentive to get to know the student advisees, (2) identifying a freshman's professor as the freshman's advisor, (3) making fuller use of associate advisors and (4) placing a stronger emphasis on student relations and support in faculty review processes.

The ODSA is pursuing the idea of identifying freshmen instructors as advisors, Heine said. The ODSA is also expanding the role of the associate advisors "in the spirit of the suggestion [for pay]," she said.

The emphasis on student relations was the most important recommendation, Heine said. Professors need to know that involvement with students through advising, seminars and living groups is of value to their departments, Heine said. "People need release time from their other activities," Heine said.

Other issues

● **Student satisfaction:** The Visiting Committee reported that white, male middle-class science and engineering students are generally happy. Women, minorities, gays and students in the social sciences and humanities are less satisfied.

● **Student Life Survey:** The Committee recommended that a more refined and meaningful survey be given in the future.

● **Pace and pressure:** Important aspects of a college education are perhaps being sacrificed in the pursuit of academic excellence.

● **Extracurricular activities:** Students should be encouraged to

balance their schedules with extracurricular activities.

● **International students:** The Visiting Committee reported that international students have some difficulty adjusting to life at MIT. Graduate students are concerned about losing funding. The needs of international spouses should also be addressed.

● **Women:** The committee recognized the concern over pornography and urged that the issue be used in an educational endeavor.

● **Blacks:** The committee recognized the lack of black faculty and recommended the active black alumni support of students.

● **Minority students:** The committee recommended peer advisors to help minority students deal with academic performance, financial aid and the MIT environment.

● **Transfer students:** Peer advisors were also recommended for transfer students.

● **Teaching assistants (TAs):** The committee finally recommended "serious review" of the policy of allowing a student to take a course for credit and TA the same course simultaneously. The committee also recommended that TAs should have a minimum level of English competence.

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?

SEXUALITY

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The GAMIT (Gays at MIT) contact line is now staffed during the following hours. If you have questions, or need information on gay and lesbian issues or problems, or if you simply need someone to talk to about your sexuality, call us at 253-3440. Or better yet, stop by our lounge (30-306, Walker Memorial) and talk to our trained staff members in person.

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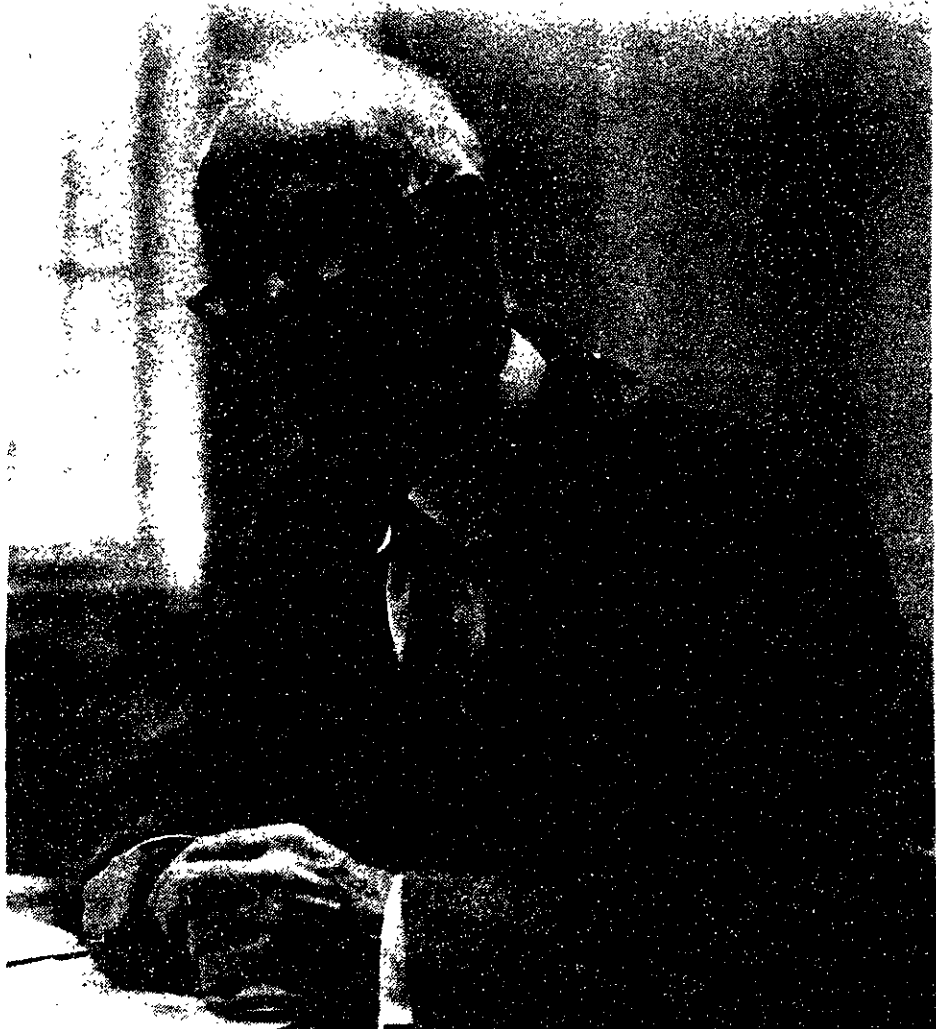
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Philosophy

■ **Distribution Subjects**

24.04 Moral and Legal Responsibility
3-0-6

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MWF 2-3 36-155

THOMSON: Every society needs to determine for itself, and express in its legal code, the ways in which it will fasten responsibility on those of its members who cause harm to others of its members. Considerations of morality and efficiency enter into the decisions the society makes. The class will look at the ways in which moral conceptions of fault are expressed in a society's legal rules, and at the sources of change in a society's legal system - in particular, at those places at which a society may decide to relax its concern for fault in the name of efficiency.

reading per week: 25-50 pages
writing per term: 25-30 pages
3 8-10-page papers
no quizzes
no mid-term exam
3-hour final exam

Political Science

■ **Elective Subjects**

17.247 National Security and Democratic Values

Prereq.: 17.241, 17.243 or 17.245 or Permission of Instructor

3-0-9

The growth of national security concerns poses important challenges and problems for individual freedom and democratic processes. This course examines this phenomenon and congressional and presidential initiatives to deal with these perceived problems. Intelligence agencies, loyalty-security clearances, secrecy and classifications, espionage, freedom of press, of travel, of scientific exchanges, and defense spending will be examined.

Menand T 3-5 10-280

news roundup

World

Soviets prepared to offer broad arms reductions — The Soviet Union may offer to reduce offensive weapons up to 60 percent once the Geneva arms talks reconvene on Jan. 16, according to a Soviet bloc diplomat. The United States will have to set terms for limiting the Strategic Defense Initiative before any agreements on medium or long-range weapons can be discussed, the official added.

Mandela breaks South African speaking ban — Winnie Mandela, wife of black leader Nelson Mandela, defied the South African government by speaking to a crowd of blacks at a soccer stadium Monday. She pledged vengeance for 15 blacks slain by police on Nov. 21. Mandela has been "banned" by the South African government, a restriction which prohibits her from meeting with more than one person at a time and addressing public meetings.

Nation

National security advisor resigns — Vice Admiral John M. Poindexter was appointed national security advisor after President Reagan accepted Robert C. McFarlane's resignation from the post Wednesday. Administration sources said McFarlane left because of frustration over ongoing fights between factions at the White House. Poindexter, a nuclear physicist, is a "hard-line pragmatist," one official said.

Pentagon suspends General Dynamics from new contracts — The Pentagon prohibited General Dynamics, the nation's third largest military contractor, from receiving contracts for any new work for any branch of the government Tuesday. The Pentagon's action followed the indictment of the company and four top executives on fraud charges.

Local

New Hampshire high school dropout takes hostages — Louis Cartier Jr., a 16-year-old Concord, NH High School dropout, was critically wounded by police Tuesday after he went to the school armed with a double-barreled shotgun. Cartier roamed the halls and briefly held two students captive. The two students escaped unharmed, but one police officer was injured in an exchange of gunfire between police and the youth.

Sports

Celtics beat Bucks — Boston defeated the Bucks in Milwaukee Tuesday night, 112-109. Kevin McHale led the Celtics in scoring with 29 points, although Dennis Johnson proved the game's real hero by sinking a three-point fadeaway jumper with 1:37 remaining to even the score, 107-107, after which the Celtics never looked back.

Weather

Snow will dust Northeast — There is a 40 percent chance of snow today, with highs in the upper 30s. Cold but fair weather is forecasted for the weekend with highs in the 30s and lows in the teens.

David P. Hamilton
Craig Jungwirth

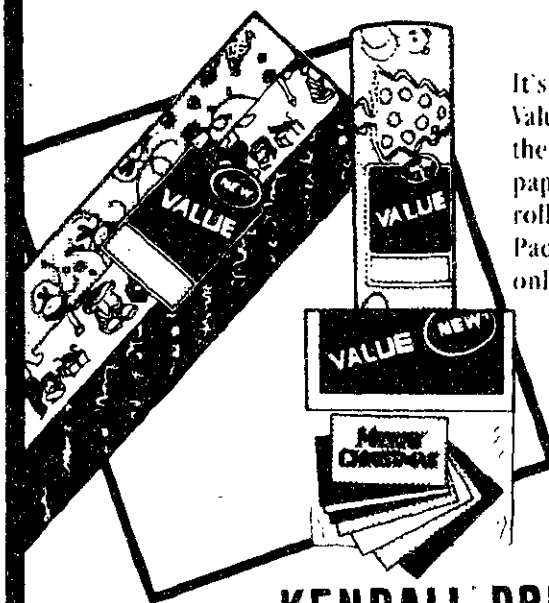


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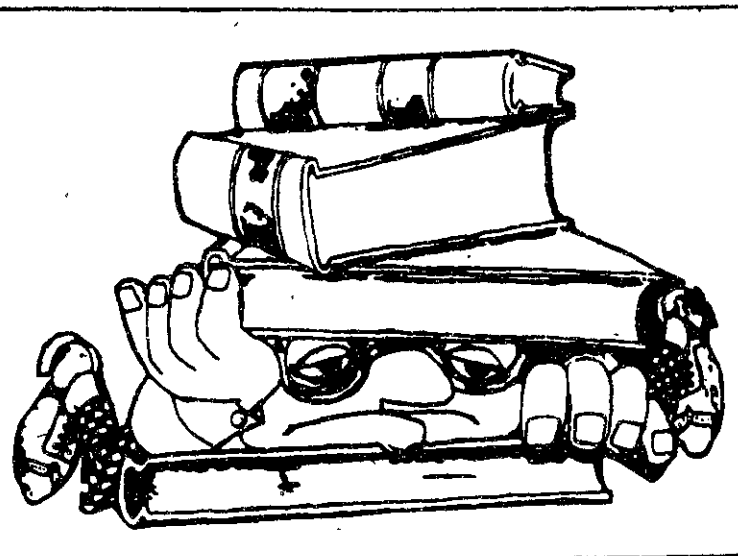
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opinion



feedback SDI research should not be given priority

To the Editor:

I have just read the letter by Pitrelli and Theobald ["SDI ensures our retaliation" Nov. 22], and I feel compelled to point out how totally flawed their reasoning is.

Pitrelli and Theobald claim that the Strategic Defense Initiative does not have to "guarantee that no warheads will hit their targets on a first strike. Rather, the intention is that a high attrition rate on a Soviet strike would ensure that most of our retaliatory force would survive, so that the Soviets would realize that attacking the United States would be suicidal."

They go on to say that the Soviet Union will thereby never be able to blackmail the United States, nor carry out a "successful preemptive strike." Do these statements imply that the Soviet Union today or at some other point in the foreseeable future could believe that they can effectively launch a surprise attack on the United States, Western Europe, (possibly China), and perhaps a country in the Middle East, knocking the entire foundation under the Triad and then sit back, cross their legs, and not expect devastating retaliation?

It seems absurd even to hypothesize. No statesperson in his or her own right mind would consider even the remotest chance of surviving an all out nuclear exchange and SDI does not change that one little bit!

A few weeks ago there was a debate at MIT that was intended to focus on the topic: "Can the computational requirements of SDI be met?" As an undergraduate student in computer science with a keen interest in loosely coupled distributed systems, I went to listen, hoping to be presented with an outline of some new and exciting theories about how the SDI scenario might be approached. I was disappointed. Nobody on the panel seemed to have a clear idea about what they were actually discussing, but some of them did seem to believe that, whatever it was, it would work.

Prof. Parnas, one of the panelists, brought up an interesting idea, though. If we go ahead and build a Star Wars-like system, it is important that the Russians think it will work. I assume this is also the opinion of Pitrelli and Theobald when they say that the system would make the Soviets "realize that attacking the United States would be suicidal." Parnas on the other hand raised the issue of our own confidence in the system. If our own military and political leaders do not have faith in the system, then what?

In other words, if the expected reliability of a "Star Wars" implementation was not very high on the American side, we cannot assume that any general, admiral or president would dismantle their offensive systems nor decrease their rate of buildup. On

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TheTech

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feedback The Coop should stay in the Student Center

To the Editor:

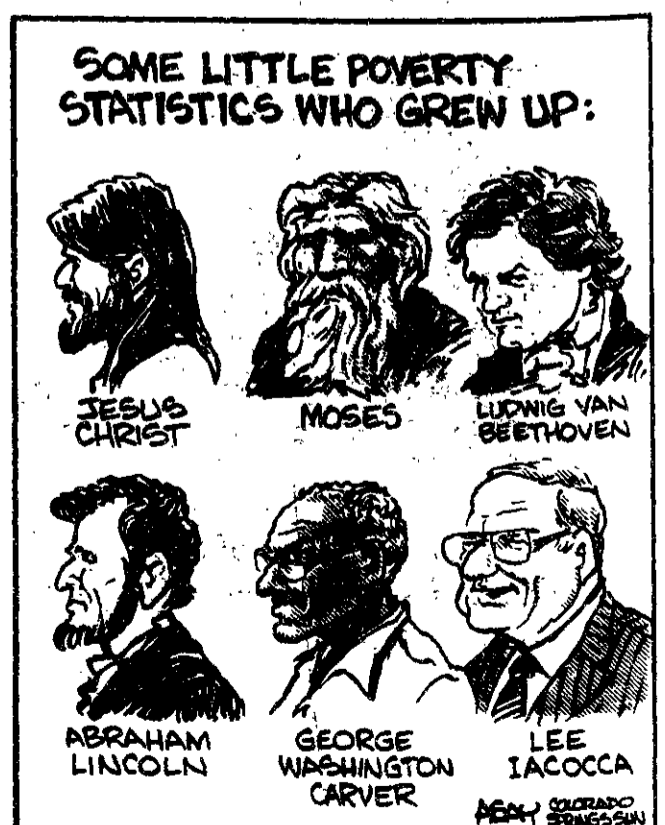
The Coop is moving to Kendall Square! And what are we going to do about it? Well, from what I read in *The Tech* the other day, there's a Coop committee set up to acquiesce while the Coop plots its strategy. The purpose of the committee (other than simply acquiescing) is to decide what to do with the space after the Coop is gone. Doesn't anybody want the Coop to remain in the Student Center? Why isn't anyone protesting the move?

During four and one-half years at MIT as a grad student, I've never really loved the Tech Coop. It's an inefficient and unresponsive organization. Have you ever gone to the stationary department to buy a pad of your favorite writing paper (or some other particular item) and found it to be out of stock? Yes, it was in stock two weeks ago, but they're now sold out and it will be another month before the next shipment comes in. Or, have you ever tried to get a special order book from the book department? Six weeks later, when you go inquire why it hasn't yet arrived, they tell you that the order was sent to the publisher only last week. It makes you wonder about the Tech Coop's inventory and management practices.

Despite the inefficiencies of the Coop, it is nevertheless conveniently located and is near the center of many social activities at MIT (like having lunch and coffee and generally hanging out). It also has a captive clientele, in particular the undergraduate MIT students who live in the dorms west of Massachusetts Ave. Has anyone from Burton or MacGregor contemplated what it's going to be like at the beginning of each semester when you have to lug a ton of textbooks from Kendall Square to your dorm? And what if you just wanted to browse in the bookstore? Are you going to walk 20 minutes (there and back) in order to browse for 10 minutes?

From what I can see, the motivation for relocating the Coop is purely economic. The Coop wants to tap into the lucrative market provided by the yuppies who are going to work in the new office developments at Kendall Square. What about service to the MIT community? Where is the Coop's sense of responsibility to the customers who have provided its income for so many years? Instead of moving to Kendall Square to find new markets, might not the Coop increase its profits by simply eliminating some of its present inefficiencies?

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ACAP COLORADO SPRINGS SUN COPY NEWS SERVICE

opinion

feedback

MIT should not serve as a defense lab

(Continued from page 4.)
the other hand, our generals would see a Soviet reaction to SDI in whatever form that might take and surely — judging from history — plunge into another offensive buildup to counter this new perceived threat.

So what have we achieved? A defense system that cannot be properly tested in a realistic scenario and therefore probably cannot be counted on as fully reliable by those who must depend on it, and an offensive arsenal equal to or larger than what we already have. Are we winning?

Pitrelli and Theobald write about shooting down the SLBM's and ICBM's using high energy laser technology. They indicate that cruise missiles are easy targets (as long as it is not cloudy) since they travel slowly, and they suggest that battle station satellites are easily defendable (since they are in weightless condition).

They also write about how difficult it would be to thicken the nose cone of a Russian SS18 as a countermeasure, and they question a column by Alan Szarawarski where figures like one trillion US dollars are used to estimate the cost of an implemented "Star Wars" defense system. These ideas and numbers

might all be right but chances are they are all wrong, and the bottom line is that everything is based on guessing.

As it was proposed to a highly non-critical (uninformed) American public, SDI was delivered in a "moral wrapping" under the pretext of being totally defensive. Please correct me if I am wrong, but it seems quite evident to me that any weapon capable of penetrating layers of the atmosphere with enough energy to cause damage to a missile travelling a few times the speed of sound, could also be directed against soft targets on the earth. Such targets could be anything from oil-refineries to ships and buildings; and although our good intentions would surely be proclaimed, I am not convinced that our adversaries would feel insecure if the Soviet Union had a system with comparable capabilities.

All estimates are taken out of thin air. I have been following the SDI debate for a while, and I have seen renowned physicists (with all the stars on their collars) proclaim that the system based on lasers is physically impossible, and I have heard the exact opposite from equally "decorated" noblemen of the sciences.

So I conclude the following about SDI:

- The implementation of an SDI-like system will be extremely expensive.

- SDI will not offer an "astro-dome" like shield, "rendering nuclear weapons impotent and obsolete," as Reagan proposed in his March 1983 speech.

- And a system, if it works, will not be defensive.

Finally I would like to request that Pitrelli and Theobald read more than the "propaganda" offered by the proponents of SDI. I find it quite offensive that they end their article suggesting that those opposed to yet another escalation of the arms race and militarization of space are not informed. This is the particularly unreasonable after having themselves offered what cannot be but uninformed (guessed) statements on the feasibility of specific "Star Wars" "defense" scenarios.

I found myself agreeing with Pitrelli and Theobald's final point that suggested infeasibility of a proposed research project cannot be considered grounds for demanding its cancellation. My reasoning behind this statement is one based on a belief in the freedom of speech (research) that this country constitutionally of-

fers on the first amendment principles.

The demand for cancellation of research because of its proposed infeasibility cannot be justified. But: *MIT is not a defense laboratory.* Specific research favored by the DOD should not be given higher priorities over other research projects, and criteria for fundings for future projects should be made to depend on the possibility that the research can contribute to SDI. This is what many fear is happening and is much of the reason for concern.

Surely scientists should study and develop high energy laser technology. In computer science, distributed systems are an important and interesting field, and there is very much yet to be discovered. We do not need SDI or special SDI funding to perform this research.

Nuclear weapons are different than conventional weaponry. Damage assessment after a nuclear exchange cannot be measured along a continuous curve. If nuclear weapons start exploding over New York City, over the Ninth Fleet, or in my backyard, it does not matter whether we can set up an effective shield of 87.93 percent. One bomb at any soft target is enough.

Hans Peter Brondmo '86

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

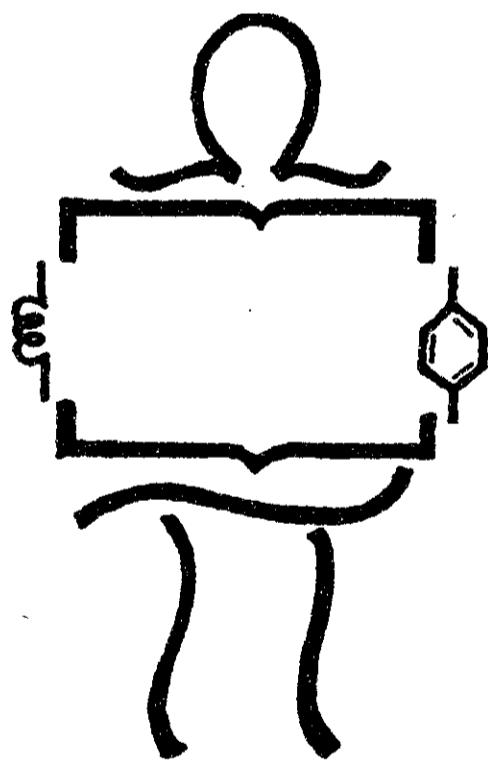
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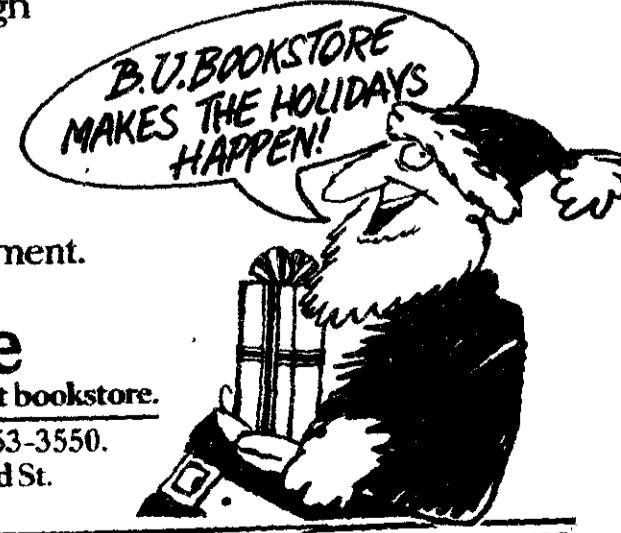
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opinion



Universities are a place for open meeting

To the Editor:

Dimtry Zarkh '86 should read my letter ["Unruly audience was true obstacle to peace," Nov. 26] a little more carefully. I did not attempt to defend the visiting Soviet delegation, which I described then as "dogmatic" and I describe now as evasive and obfuscatory. I am not as gullible as Zarkh supposes, and I have not "learned about the Soviet Union from particularly biased textbooks." In fact, I have visited the Soviet Union as well as three other socialist countries, and I have spent nearly half a year in Eastern Europe.

The purpose of my letter was not to support the Soviets present, but to criticize the conduct of a few Americans. I do not need to mention this anti-social behavior again, because Zarkh recapitulates it so well. He admits to trying to tell our guests that they "are not welcome on our campus." (italics mine) Who does he think he is? By what authority does he claim censorship over other MIT community members?

If others wish to hold a lawful and peaceful meeting of any kind whatsoever, surely they should be able to do it on a university campus of all places. Are the freedoms of speech and assembly things which Zarkh is willing to compromise in order to preserve his personal vision of America?

Julian West G

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opinion



The Coop is insensitive to MIT

(Continued from page 4)

As an undergraduate, I went to a university where there was a "campus store." It was much like the Tech Coop and was similarly located near the center of the university's social activities. Unlike the Coop, it always seemed to have the interests of the students in mind and hence deserved the name "campus store." It is obvious that the Coop, on the other hand, thinks of itself as an entity independent of MIT.

Instead of trying to decide what to do with the space after the Coop leaves, the Coop committee should first try to persuade the Coop to renew its commitment to MIT and stay at the

Stratton Student Center. If that fails then they should start thinking about how to transform the space presently occupied by the Coop into a real "campus store."
Sam Liao G

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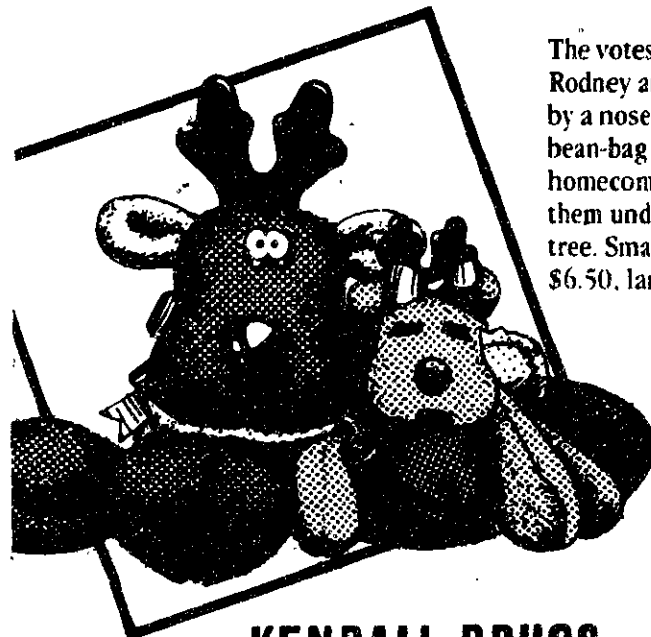
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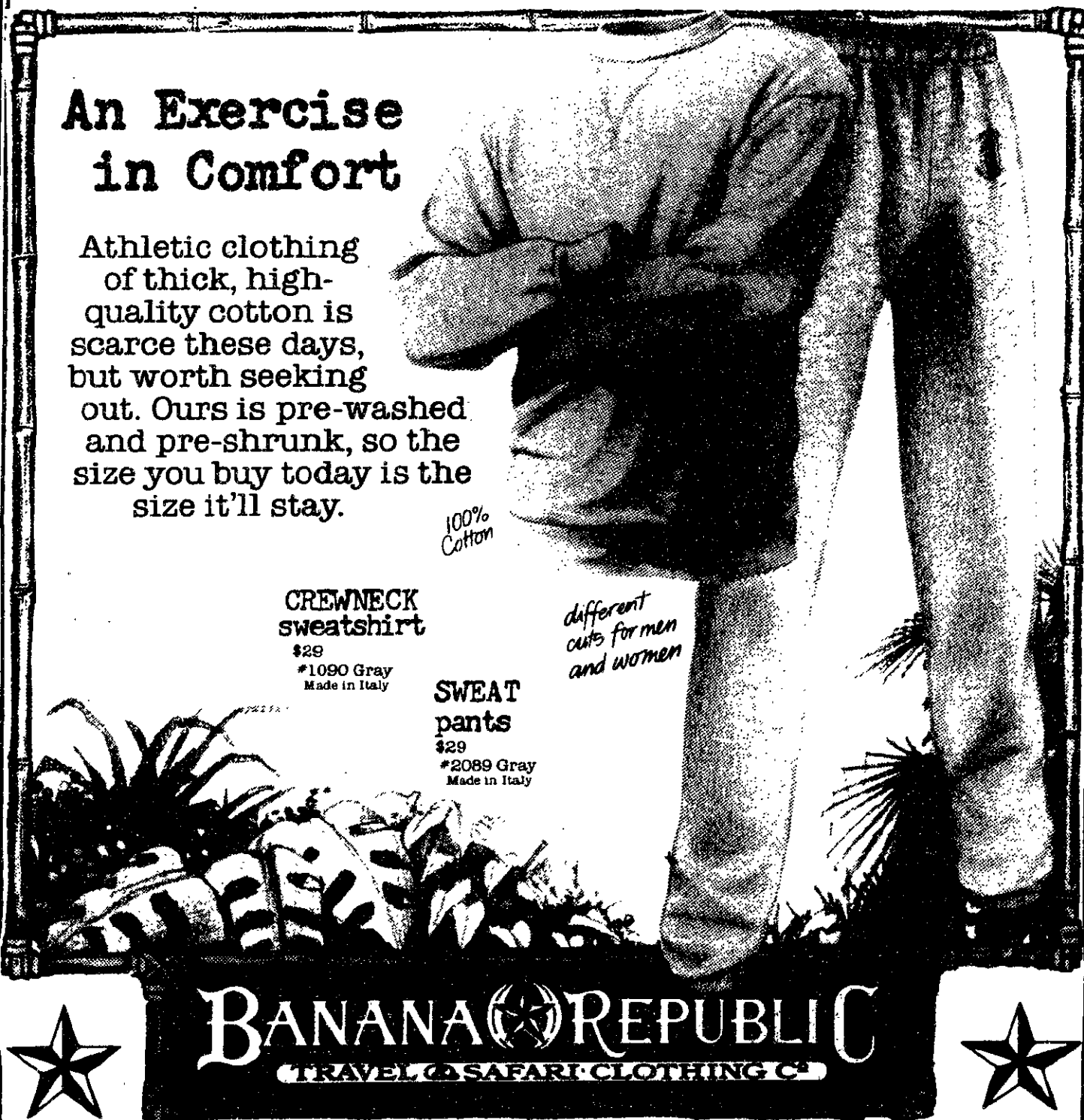
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ARTS



John Bottoms as de Flores and Diane d'Acquila as Beatrice-Joanna in a scene from Robert Brustein's production of Thomas Middleton's *The Changeling* in repertory at the American Repertory Theatre until February 19. Highly recommended.

Rostropovich gives exhilarating performance

Boston Symphony Orchestra, Mstislav Rostropovich, soloist, Symphony Hall, December 1.

Boston was privileged to hear Mstislav Rostropovich — very probably the greatest cellist of our time — join the Boston Symphony Orchestra in a sold-out Symphony Hall on Sunday afternoon: Rostropovich surpassed even the loftiest heights demanded of an artist already established as a perfectionist.

Seiji Ozawa conducted Beethoven's *Egmont Overture* with a fine appreciation for the work's programmatic content: *Egmont* is a very heroic character, and the BSO performance was dramatic, from the powerful opening chords, through the forceful and troubled middle section, to the concluding brilliant victory march.

Although Rostropovich must have played Tchaikovsky's *Variations on a Roco Theme* dozens of times, he maintained a freshness and high level of concentration throughout the ensuing performance. Daunting technical difficulties posed no problems at all. Rostropovich established a close ensemble relationship, maintaining communication, not only

through Ozawa, but also with individual members of the orchestra. All of Rostropovich's subtle shades of color and dynamics were well matched: the performance was a success for both soloist and conductor.

Dvorak's *Cello Concerto in B minor* is both one of the most popular and most difficult concertos in the repertoire. The solo part was once more brought off with a show of flawless agility, and the special rapport between cellist and orchestra established during the Tchaikovsky endured for the Dvorak. The opening *Allegro* was alternately energetic and tender. The *Adagio ma non troppo* was warm and sincere, its melodies evoking a longing melancholy. Rostropovich's clear, singing tone was poignantly highlighted here, his apparently effortless execution of the most difficult passages making his playing all the more enjoyable.

The last movement, a feisty *Allegro moderato*, brought the evening to a fiery, joyous conclusion and earned Rostropovich a heartfelt standing ovation.

Richard Gotlib

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ARTS

Joan Sutherland in powerful concert opera

Anna Bolena, with Joan Sutherland, conducted by Richard Bonyngue, Wang Center for the Performing Arts, December 1. Event in The Tech Performing Arts Series.

It was billed as a Joan Sutherland special, but there was good-singing all-round in the concert performance of Donizetti's *Anna Bolena* — the spiced-up story of Anne Boleyn, Henry VIII's second wife (and the first to be beheaded) — given last Sunday night in the Wang Center.

Sutherland grew in stature as the evening developed: she ended the third scene of Act I movingly, then blossomed for a consistently-powerful Act II. Anna's prayer, *Dio, che mi vede in core* had considerable depth and focused attention on the character's plight. Her singing in the second scene of the Act, backed by gentle heart-beat pizzicato, was psychologically revealing, Anna's growing introspection displayed by increasingly concentrated singing.

Sutherland showed particular strength in drawing ensemble together, as in the trio *in dall'eta piu tenera*. Her own singing here was haunting, but her expressive power was augmented by her ability to cement ensemble scenes, to form bonds with other characters without costumes, scenery or staging.

In Donizetti's opera, Anna has an fiancé, Lord Richard Percy, and Jerry Hadley's portrayal of the role — which in-

cluded some of the strongest singing of the evening — was particularly vivid. Hadley's lyrical voice brought us a dark ruby-red blooded *Da quel di, lei perduta*, in which Percy describes the bitterness of his exile — having lost Anna's love, fine orchestral accompaniment adding further color.

Hadley's dramatic singing made him a compelling partner to Sutherland; in tandem, their performance was magnetic.

Judith Forst's voice is a tightly-controlled instrument. It was put to particularly strong use in *Ah! pensate che rivolti*, where Giovanna — Jane Seymour — pleads for clemency for Anna. Her singing was clean and firm, but also well-colored and full-blooded: Her stage presence demanded attention.

Richard Bonyngue — Sutherland's husband — drew an inspired performance from the orchestra, which painted the scenery as effectively as any actual props might have done. The orchestra provided a suspenseful introduction to the mournful choral number *Chi puo vederla*, creating a poignant ambience for Anna's ladies-in-waiting to reflect on Anna's unfortunate condition. Woodwind was used to especial effect to convey Anna's tragedy in the final scene. Against such a supportive backdrop, Sutherland's *Al dolce guidama castel natio* was particularly touching.

Jonathan Richmond Joan Sutherland



Glass discusses opera at MFA

Philip Glass, lecturing at the Museum of Fine Arts, December 4.

A well-filled auditorium at the Museum of Fine Arts last Wednesday heard composer Philip Glass comment on his operas, *Akhnaten* in particular. The theme of the latter being Egyptian, it was left to the Museum's curator for Egyptian art to introduce Glass — as the main composer since Verdi to gather inspiration around the Nile.

The evening did not quite come up to expectations. Contact with *Akhnaten*'s actual performance consisted of some ten slides and no more than a few minutes of taped music, and Glass's high-speed oral presentation left something to be desired, too. Still, there was a lot to be gained from listening to Glass who, after all, is one of today's most important composers, one, moreover, in a pivotal position on the verge of classical, pop and jazz.

Known to the movie-going public through scores such as *Koyaanisqatsi* and more recently *Mishima*, Glass still derives

most of his reputation from three major operas. The first (and, many would say, best) of these, the 1976 *Einstein on the Beach*, was a co-production with Robert (CIVIL WarS) Wilson. Glass explained that he did not initially think of *Einstein* as an opera; its classification as such derived from the fact that its large scale made it fit only in opera houses.

Satyagraha, about the young Gandhi, followed in 1980, and at the request of the director of the Stuttgart opera Glass then undertook to work on a piece to complete the trilogy. ("Germans like that," he said.) His attention was drawn to *Akhnaten* by a book of speculator Velikovsky, identifying the Egyptian pharaoh as the source of the Oedipus legend, as well as by Freud's work on monotheism. *Akhnaten*, it will (or will not) be recalled, temporarily replaced the Egyptian pantheon with a single deity, manifesting itself in the disk of the Sun.

Glass's attitude toward history in *Akh-*

naten is somewhat ambiguous. The above references do not suggest a particularly positivist approach to the subject, and his intention to substantiate Freud's claim that *Akhnaten* was "the first individual in history" seems at odds with the unfortunate circumstance that the king's personality is shrouded by the clouds of the past. Yet Glass stated he "didn't want to invent things." To achieve the utmost in authenticity, he even decided to use original Egyptian, Akkadian and Hebrew texts for the libretto (just like *Satyagraha* has Sanskrit). As for the pronunciation of these languages, "there was hardly anybody to complain about it." Only *Akhnaten*'s *Hymn to the Sun* was sung in English.

The three acts of *Akhnaten* (Rise, Reign and Fall) each consist of separate fragments. Thus, Glass intends to mimic the corresponding museum experience; watching his opera is like "seeing archeology." The "critical choice" in the composition was that of making the protagonist a countertenor, halfway between his mother

(a soprano) and his wife Nefertiti (an alto).

As for the music, Glass did not intend to "sound Egyptian" — the large size of his troupe, for one thing, being in obvious contradiction with the presumably modest volume produced in ancient Egyptian music. Still, it had to be "a bit exotic." As always with Glass, the basis consists of repetitive, cyclic structures, the stock in trade of his Minimalist style. His instrumentation in *Akhnaten* emphasizes the lower strings, brass and percussion. This gives a sense of tragedy to the work, in contrast to the "apocalyptic, high energy" *Einstein on the Beach* and the "lyrical" *Satyagraha*.

Having played down the influence of Wagner, Glass finally left for the American Repertory Theatre to attend a rehearsal for his chamber opera *The Juniper Tree*, which will open this weekend. He described it as a play "not for children." We shall see.

Michiel Bos

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Players may choose to compete with a handicap. That is, those who do not know a great deal in any or all of the categories may play at levels one and two while other players with some knowledge will play at levels three, four and five. In this way, novices can compete with those who think they are experts.

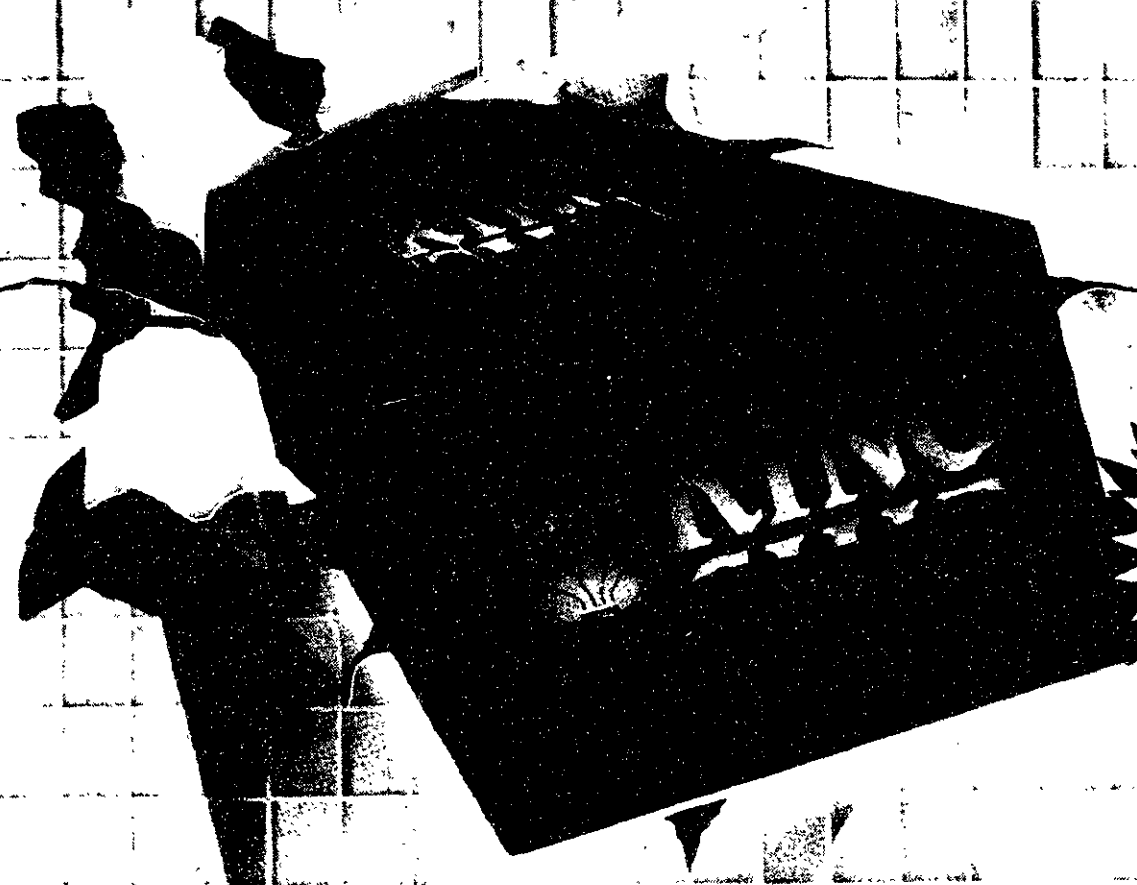
We warn you that level five questions have been created to challenge even the experts. There is a great deal more to the computer industry than the "index register of a 6502 microprocessor". Levels one and two are designed to capture the basic elements of what computers and technology are all about. If you have any desire to know more about the computer industry or are somehow involved with it, you will want this game. There are questions on virtually everything you can think of from word processing and computer operations to arcade games, movies and applications software. The question and answer format is similar to extracting key points in a book or course — but in an exciting and entertaining way.

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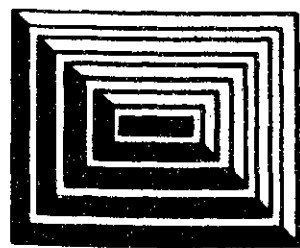
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Text of the Visiting Committee Report

(Continued from page 1)

most students the quality of life is acceptable. At the same time, however, specific improvements are of great importance to particular sub-groups of students. Some of the desired changes can be evaluated based on merit and cost, whereas others are more complicated because they involve the interactions between students. Given the challenges, opportunities, restraints and budget limitations imposed on the ODSA, the Committee believes that the Dean and the staff are working effectively on behalf of the students.

Recommendations

The major recommendation by the Committee is that the ODSA needs to put greater effective effort into the process of communicating with the students. Too many students do not perceive the Office as a receptive listener and, when appropriate, an advocate of students.

Regarding the quality of student life, the overall situation is good, but various opportunities for improvements are indicated in the body of this report.

Quality of Life — Some Underlying Issues

1. The mainstream students (white, middle-class males in science and engineering) are generally quite happy (notwithstanding the pace and pressure issue). Less satisfied are women, ethnic minorities, gay students and students in the social sciences and the humanities. It is quite clear that the Institute should pay attention to the needs and disaffections of these groups and to understand better what the basic problems are. For example, are the minority groups unhappy because they want a fairer share of the "good life" enjoyed by the majority, but are not able to get it, or are they unhappy with the prevailing model of the "good life" itself? Until we have a more differentiated understanding of an issue of this kind, we will have difficulty devising the necessary remedies (if such remedies are available). The Office of the Dean for Student Affairs should obtain a better understanding of this matter.

The Dean's Office must be commended on its willingness to embark on such a time-consuming undertaking as the Quality of Student Life Survey. Given the concerns expressed at the meeting about the methodology used and some of the conclusions expressed, the survey must be considered a first attempt with more refined and meaningful efforts to follow in the future.

The issue of pace and pressure requires focused attention. At the outset of our meeting it did not seem surprising that MIT students should be working very hard; on the contrary, it seemed reassuring to hear that such was the case. But, by the end of the meeting there was greater concern at what may be unreasonable demands being placed on students (as well as students placing demands upon themselves). In the wholly worthwhile pursuit of academic excellence and professional training, other very important ingredients of a college education are perhaps being sacrificed at MIT. As one student put it, "I feel that I am missing out on the experience of going to college." This statement came from a very serious and solid student and has given us serious pause as did a similar statement at the Committee's previous meeting.

Subsequent to the meeting of the Committee the announcement of changes in the Provost's Office was made. The greater attention to the undergraduate program is welcomed by the Committee, which suggests that the following issues merit attention:

What is the present course burden on undergraduates with respect to the number of units and the content of the courses? How have these changed over time?

Are new requirements always incremental on past ones or is there a mechanism to subtract from as well as to add to the academic burden?

What is the context for students to probe the nature of impact and opportunity of their technologies?

What are the arenas in which they are encouraged to advance their communication and interpersonal skills?

How do their career choices shape the planning of their curriculum and the balance of skills and knowledge required?

How early in their MIT education are they exposed to leaders (or role models representative of the diverse student body) in the full range of career possibilities?

How do these leaders communicate the skill sets for effectiveness in their sector?

How are academic advisors plugged in to optimize on a total development strate-

gy and not just sequential knowledge acquisition?

In an era where information is highly accessible and obsolescence comes quickly, what curriculum adjustments have been made to balance the process with content and possibly free up time for critical development?

The remainder of this report deals with various issues on which the Committee wishes to register its views.

Graduate Students

In its discussion of the quality of student life, the Committee's attention was particularly drawn to the situation of the graduate students. A detailed discussion of the situation is contained in the Attachment to this report entitled Graduate Student Concerns.

Graduate students are basically recruited, admitted and educated by their individual academic professional departments. These students have common needs which transcend departments.

Many of these needs are or could easily be fulfilled by ODSA or the Dean of Graduate School. There seems to be a lack of communication about such available services to the students who tend to get trapped in their academic departments.

Housing for graduate students is an Institute-wide issue deserving further attention and quantity.

The current practice of initial assignments to graduate student housing appears to be relatively fair, using what is essentially a lottery system to determine which entering students receive offers of housing.

Given the severe shortage of housing, however, we think it might be wise to re-evaluate the current policy which allows graduate students to remain in assigned housing for their entire time at MIT — as much as six years or longer.

It is clear that entering students, (most of whom are quite unfamiliar with the Boston area and its housing options) are in greatest need of Institute-provided housing. This is particularly true of international students who usually have even greater culturization problems than incoming Americans.

Accordingly, we recommend instituting a policy to restrict the normal tenure in graduate student housing to two years.

Preference should be given to entering students, particularly entering international students, when assigning graduate students to available Institute housing. Since international students comprise 60 percent of the occupancy of married student housing, many of them would have to move after two years to make room for newcomers.

At present the Institute provides housing for 30 percent of its graduate students. Given the continuing restrictions on off-campus housing in Cambridge and Boston, the Committee suggests that this percentage should be raised to at least 50 percent.

Unfortunately, it is not easy to raise money to pay for housing, as most potential donors are more easily enticed by research facilities or endowed chairs where there name will be linked with exciting intellectual advances. However, this does not reduce the seriousness of the graduate student housing problem or the obligation of the administration to tackle the difficult problem of raising the needed funds.

ODSA personnel informed the Committee, and President Gray confirmed, that student housing currently carries a low priority on the Institute's target list for capital funds. We strongly recommend that the administration reevaluate the need for additional graduate student housing and begin a vigorous campaign to raise capital funds to construct new graduate student housing facilities and to renovate existing housing stock as necessary.

Freshmen

R/O Week is filled with activities, information and decisions to be made by the student. It seems hard for the student to digest such information amidst all of the distractions. Since much of that information is so important, perhaps more of the information-oriented programs of R/O Week should be repeated during the academic year (IAP?).

Some members of the Committee continue to express concern that the haste with which the students are obliged to choose their residences, and then to stay with them, is not conducive to either the best choice or a welcoming orientation week. They suggest a complete review of the current residential policy at MIT.

General Issues

Advising

Students want an advising relationship with a faculty member which becomes a close personal relationship. They seek advice on personal matters, on career choices and on individual course programs — all under the name of advising. Aware of this, and in full recognition of the fact that nobody's advising system will ever get unanimous support, the Committee makes the following observations:

Advising could use greater attention, or, what is more likely, greater resources from MIT. Students at the open forum voiced strong frustration with the quality and quantity of the advice that they were receiving about course choices.

Several possibilities that have had some success on other campuses are:

(a) To name one advisor for a student to have for several years and to provide that advisor with sufficient incentive to get to know the student advisees beyond the mere mechanics.

(b) To identify as an advisor a faculty member in a course which the student will take in the freshman year, so that the faculty member and the student can see each other on a continuing basis, and the faculty member will get to have some sense of the students interests and talents, and the student will feel more comfortable in seeking advice from the faculty member.

(c) To make fuller use of upperclassmen as team advisors with faculty. Give them a small stipend and a continuing orientation so that they then become the omnipresent and well-informed first advisor to whom a student can turn for specific information about courses, faculty, etc. Such a program of peer advisors has other rewards as well. It cements a relationship between students, and it involves students in a team association which helps to counterbalance the pressure for the fulfillment of individual potential. In other words, it makes students who are egocentric as a result of their level of maturity and external pressures learn a bit about giving as well as taking.

(d) To conduct an annual training program for all advisors. Such a program would provide the opportunity to retrain people for the role of advising and would highlight the current concerns of various constituencies at MIT.

(e) To place stronger emphasis on student relations and support in faculty review processes.

Student Extracurricular Activities

The status of extracurricular activities was not a specific subject for the Committee this year. From various observations, the Committee does note that fewer and fewer students are willing to invest the time and effort to assume leadership roles. It is part of the pace and pressure issue, but ultimately it comes back to the financial burdens that students must bear today. The high self-help levels and the need for so many of our undergraduates to take term-time jobs to survive financially, does deny them the enriching experience of university life beyond the classroom. This enrichment is not only necessary for them personally, but to our whole purpose in educating young people to mature participation in and contribution to the affairs of the world. The exercise of leadership must be learned. Undergraduate activities provide not only an outlet for relaxation and advocacy, but for the development of leadership skills. Some way must be found to instill their desirability in the students for all these reasons. While we continue to fight the issue of tuition, self-help, aid, loans, grants, etc., we must find a way to encourage the students to the idea that a balance in all their affairs must be structured.

Issues for Particular Groups

International Students

The climate that international students on the MIT campus is one that is ever-changing. The period of adjustment that takes place at the beginning of an international student's stay is sometimes long and painful, but there are a few things of concern to us all.

The male/female ratio is a concern for many of the international (and American) undergraduates. The ability to "fit in" socially with the American students also poses problems. The amount of peer pressure here differs from many of their countries and is sometimes hard to deal with. For graduate students, the fear of losing their support, either from the department

or from their sponsors in their country, is also a concern. For American students who may lose their funding or need to take a term off to work to get more money, the process is much easier than for the international student. The biggest problem is that the money available to them in their countries is substantially less than they would be able to make in the United States. However, immigration laws are tough to get around and may be impossible for most students. This can cause problems in being able to finish their degree programs.

A large problem faces the international student who brings his/her spouse to the United States. Many times the student gains exposure to the US only being a student; however, his/her spouse has the disadvantage of staying home in a strange environment and perhaps being too shy or scared to ask for the help of a neighbor. Although the groups that are formed for wives are very helpful, the spouse may not feel comfortable in approaching them. Also, there is very little to do for husbands of MIT students. The ratio is low, but they may nevertheless have needs that should be addressed.

The needs of international students in the MIT environment merits future attention by the DSA.

Women

The showing of sexually explicit films is a major concern, particularly for women on the campus, but also for faculty, students and staff of both sexes and still seems unresolved. It seems that the matter of the offense that pornographic films represent against women might lead to a serious educational undertaking. The issue could be looked upon as a means for furthering the social education of MIT's undergraduates. To some extent this "education" has begun through the forums on pornography. These should be repeated and expanded.

The new pornography issue did not seem to poison the relationship between the ODSA and a variety of sectors. The Committee is pleased to note that progress is being made on this issue. There is a policy in place which is scheduled to be reviewed in September and there is an *Ad Hoc* Screening Committee, chaired by a faculty member, that seems to be functioning.

Blacks

Black students continue to be frustrated by the lack of black faculty as role models. Active support and involvement with students by black alumni is an especially important alternative which is receiving support from the Dean and merits all possible encouragement from the Institute generally.

Minority Students

Minority students report themselves to be anxious about their academic performance, about financial aid assistance and about the environment in which they have placed themselves. It might be a good idea to form a student supportive group (peer advisors) that will serve not only as ombudsmen, but, also, as representatives in the Institute community to whom minority students can turn for help of various kinds or for referrals.

Transfer Students

The issues that were raised by the representatives of this group do not seem to be particularly difficult to resolve: special advising for transfer students, special assistance in finding housing and a special support group to assure that they become members of the Institute. The Committee's recommendation is to use peer advisors drawn from upperclass transfer students who themselves have been through the process.

Teaching Assistants

The Committee was shocked to learn that it is possible for a student to take a course for credit and TA the same course simultaneously. Such a situation is not fair to either the TA or the other students in the class. Serious review of this policy is warranted.

The Committee understands that foreign students are given some coaching in English before they are permitted to TA courses; however, it did not get the impression that they must achieve some minimal level of competence before they will be permitted to TA a course. Simply offering coaching without some performance standard is not very meaningful.

D. Reid Weedon Jr. '41, Chairman,
and the 15 other members
of the committee

College guides skew Caltech

(Continued from page 1)
 verse students to other schools, the report continues. In the 1970s, "Caltech got 60 percent of those who were accepted at both Caltech and MIT or Stanford, but [now] . . . we are getting only 40 percent."

At Caltech, 39 percent of the Class of 1988 was rejected by MIT, up from 28 percent for the previous class, and from 9 percent for the Class of 1977.

The reasons for this percentage are unclear, the report states, concluding only Caltech employs a different, more narrowly academic, admissions standard.

Applicants' strengths in the humanities is "totally overlooked," according to committee Chairman Bruce Cain, a professor of political science. Some students with interests in the humanities were even discouraged by faculty

members and staff from coming to Caltech, he said.

Historically Caltech sought pure science majors, but in recent years "there have been a disproportionate number of engineers," Cain said. The professor said he would like to see Caltech recruit a "broader mix" of students.

Caltech is also not attracting as many of its traditional type of students, the report states. Not one of the top ten winners of the 1984 Westinghouse Science Talent Search went to Caltech. Three went to MIT.

Caltech has no overcrowding in any of its departments.

"Beating" by college guides

"Caltech tends to take a beating" in college guides that pur-

port to describe schools from the insiders' views, the report states.

The prevailing negative images focus on "the curriculum's intensity, . . . the weakness of [Humanities and Social Science (HSS)] offerings, . . . the absence of easy sex, . . . and the unattractiveness of Pasadena . . ." the report continues.

The guides usually also mention Caltech's strengths in faculty, research opportunities, good training and the honor system, the report states.

The committee made 27 recommendations among five areas in its 88-page report.

(Editor's note: A summary of the committee's recommendations will appear as part two.)

MIT subject guide returns

(Continued from page 1)
 students some student feedback when choosing classes," Dellinger said. "Admittedly, you can ask an upperclassman, but with the guide, you have not just one student's opinion, but a collection of many students' opinions," he explained.

Dellinger expects to plan the size and the contents of the guide during Independent Activities Period. He encouraged all interested in helping to contact him.



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Stanford policy reconsidered

(Continued from page 1)

Yale re-affirm its most fundamental commitment to human equality, liberty and dignity."

The disagreement over the university's South African investments marked the first time in nine years that Yale Corporation members have publicly disagreed on a policy, according to *The Yale Daily News* reporter Guy Maxtone-Graham. "A lot of people were surprised by the dissent," said Maxtone-Graham.

Matthew Countryman, spokesman for the Yale Divestment Campaign Steering Committee, praised the dissenting Corporation members for calling for divestment of the school's South African holdings.

The revised policy is not substantially different from Yale's previous policy, according to Countryman. The earlier policy already prohibited the school from maintaining investments in Sullivan signatory-companies which do not comply with the principles.

The new policy only stipulates a date for Yale to begin a review process which may lead to divestment from these companies, he explained.

The prospects of Yale withdrawing its South African-related investments are not very high, Countryman conceded. "I really don't think the Corporation will divest," he said. "I hope I'm wrong."

"We've certainly exercised the proper channels [to] excess," he added. "Our purpose is not to bankrupt the university, but we don't feel Yale has to sacrifice morality in order to maintain a sound financial basis."

Divestment protests at Yale have remained very active throughout the fall term, according to *The Yale Daily News* reporter Ann Toker. Two rallies, including one on National Anti-Apartheid Day on Oct. 11, have attracted more than 300 members of the Yale community. A group of Yale and Harvard students demonstrated at the Harvard-Yale football game on Nov. 23.

Yale has \$330 million of its \$1.3 billion investment portfolio in companies doing business in South Africa, Toker said.

Stanford considers divestment

The Stanford University Commission on Investment Responsibility (CIR) on Nov. 7 proposed a selective divestment of the school's South African-related stocks to the Stanford Board of Trustees. The Board will respond to the proposal early next year.

The proposed policy calls for Stanford to invest only in companies that receive a "high rating" in Arthur D. Little's evaluation of each company's compliance with the Sullivan principles.

The proposal also stipulates that Stanford will evaluate each company on its participation in the American Chamber of Commerce and the US Corporate Council, two organizations involved in promoting equality in American businesses hiring workers in South Africa.

Joel Bellenson, student representative on the CIR, described the proposal as "all words and no action."

Bellenson and Jonathan Turk, another CIR student representative, suggested changes in the

proposal to "make Stanford more accountable for what [it is] doing." One idea was to eliminate the Sullivan categories as a criteria for judging a company's efforts in promoting racial reforms.

The proposal resulted partly because of campus activism in favor of divestment, according to David Risser, news editor of *The Stanford Daily*. More than 50 students and one professor were arrested in a series of anti-apartheid protests from Oct. 11-16, Risser noted.

Stanford President Donald Kennedy, who opposes full divestment from companies in South Africa, has repeatedly said that protests will not bring about divestment of the school's South Africa-related holdings, according to *The Stanford Daily*.

The arrests prompted Kennedy

to request an investigation of police brutality allegations made by several protesters. The report of the investigation, published Nov. 4, criticized the Stanford and Santa Clara, Ca. Police for employing "wrong and unjustifiable" tactics in making the arrests during the October rallies.

All of the arrested protesters have pleaded not guilty to charges of trespassing, unlawful assembly and refusal to disperse from an unlawful assembly, Risser said. The protesters will be tried in January, he added.

Stanford has \$217 million invested in US companies hiring workers in South Africa, Anna Schipper of the Stanford Investments Office told *The Tech*. That amount represents approximately 16 percent of Stanford's \$1.37 billion endowment, Schipper said.

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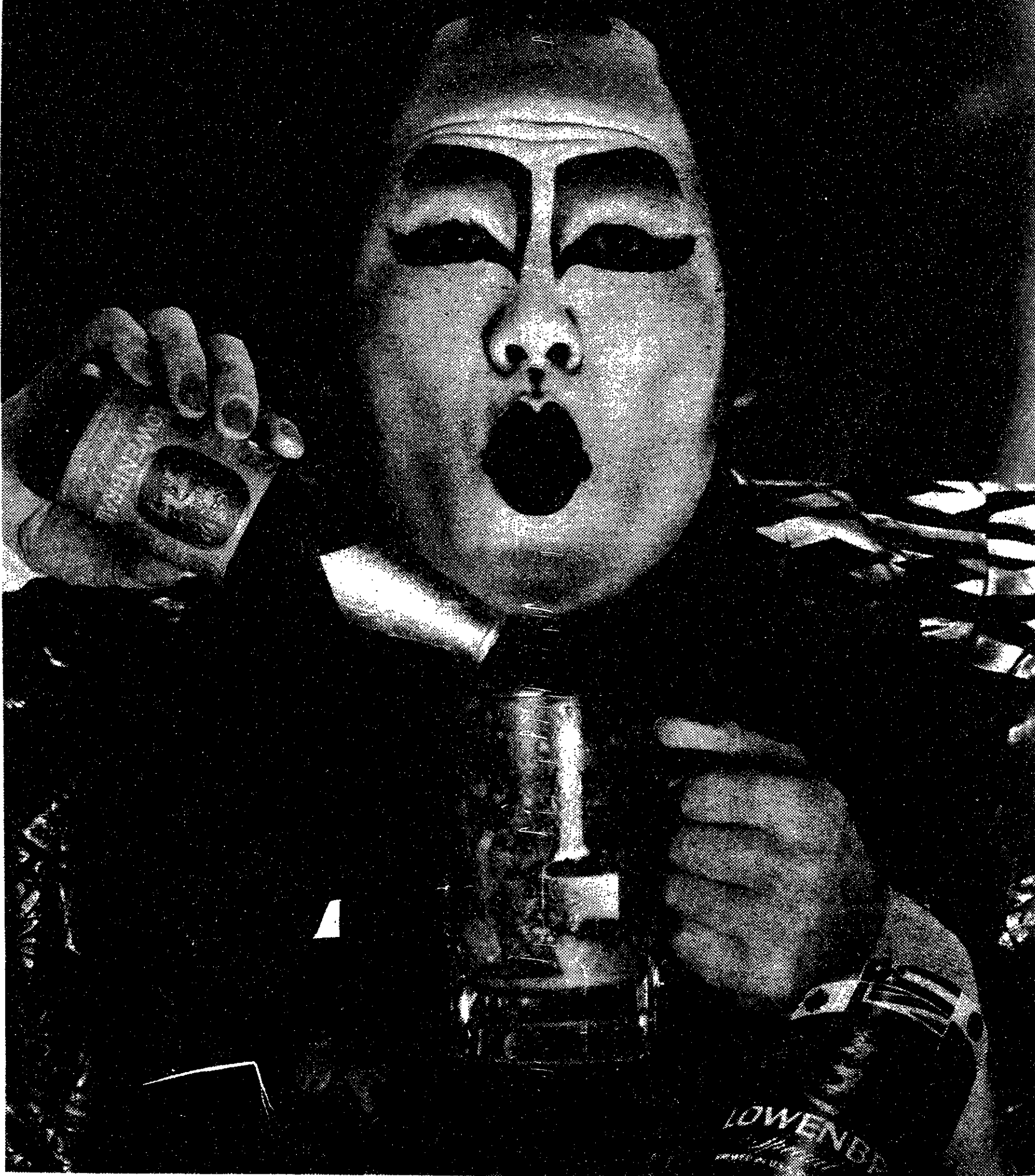
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Congress weighs education cuts

(Continued from Page 1)

two main aid programs — GSL and Pell Grants — but would redirect those funds to the neediest students after 1986.

Other aid programs, such as college work-study and National Direct Student Loans, would maintain or increase current funding levels, but increased contributions from participating colleges would be required under the bill.

More restrictive needs analysis would be used to discourage those students whose aid needs could be met solely by grant programs from applying for loans. But maximum borrowing levels would increase from the current \$12,500 to \$14,500 for undergraduates and from \$25,000 to between \$25,000 and \$40,000 for graduate students.

Uncertainties introduced

Most banks would drop out of the GSL program if the Senate plan takes effect, forcing the program to shut down, said Carl A. Modecki, president of the Consumer Bankers Association, in *The Chronicle*. The threat of across-the-board spending cuts

alone would stop banks from offering loans to students, he said.

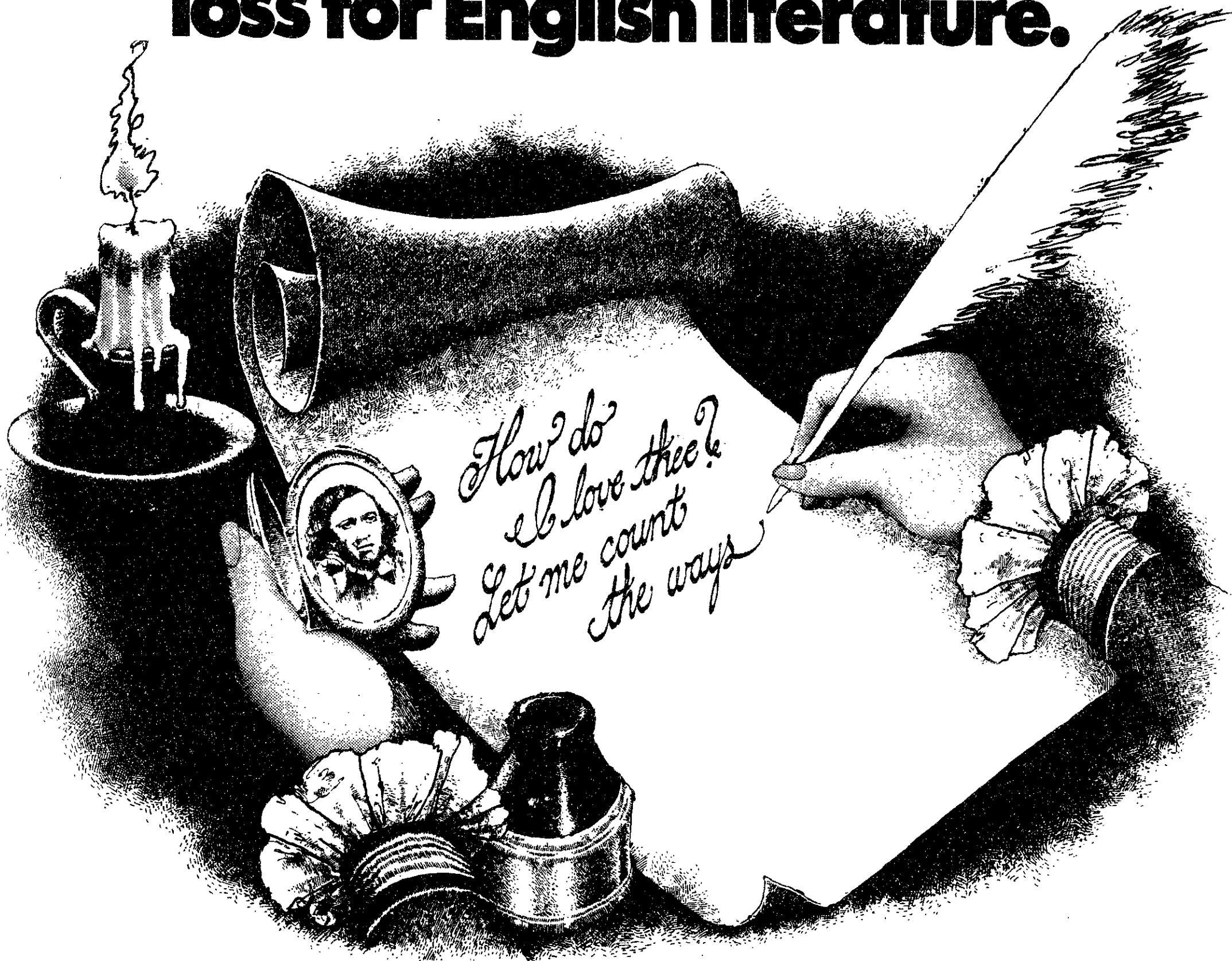
Furthermore, students borrowing from banks participating in the program under the Senate deficit reduction proposal could not accurately predict the amount available from the loan program from year to year. Reductions in spending might dictate a cut in the loan funds made available to the program, thereby reducing the total amount of money available per student.

Funding for the Supplemental Education Opportunity Grant and College Work-Study programs could be cut by up to 60 percent in fiscal 1986, estimated the Committee on Education Funding, a lobbying group, in *The Chronicle*. The committee also projected that funding for the Pell Grant program could be cut by 15 percent.

Over 60 percent of the \$947 billion federal budget would be exempt from the cuts, said Susan Frost, executive director of the committee in *The Chronicle*.

Higher education funds would be reduced disproportionately, because they would be among \$300 billion of unprotected programs cut to balance the budget.

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