

Rotch renovations may end this month

By Joey Marquez

The School of Architecture and Planning's Rotch Library has added 22,000 square feet — a tripling in size — in an expansion and renovation effort initiated 18 months ago. The newly constructed addition is already in use, and renovations to the older sections will be completed later this month or early in December.

The addition to the library employs a "unique form of construction," said Director of Libraries Jay K. Lucker. The floors of the new section are suspended from the roof beams, rather than supported from the ground, as is the case in most buildings. This was done to maintain the truck loading area, and to maximize available space.

Jean P. de Monchaux, dean of architecture and planning, said there were many problems with the library, including intense overcrowding, a lack of climate control, and a lack of space for books.

He added that the library "closed on certain occasions, because of the hot environment." Strong sunlight came through the windows, he said.

According to Lucker, Rotch was originally built in 1938 as a reading room for up to 30 architecture students. It was approximately 9000 square feet in area, and contained books, plans and historical documents.

When Lucker arrived at MIT in 1975, the president and provost at that time asked him to make an "assessment of library space."

He found that "additional space for Rotch and general space for storage of library materials" were the two greatest problems.

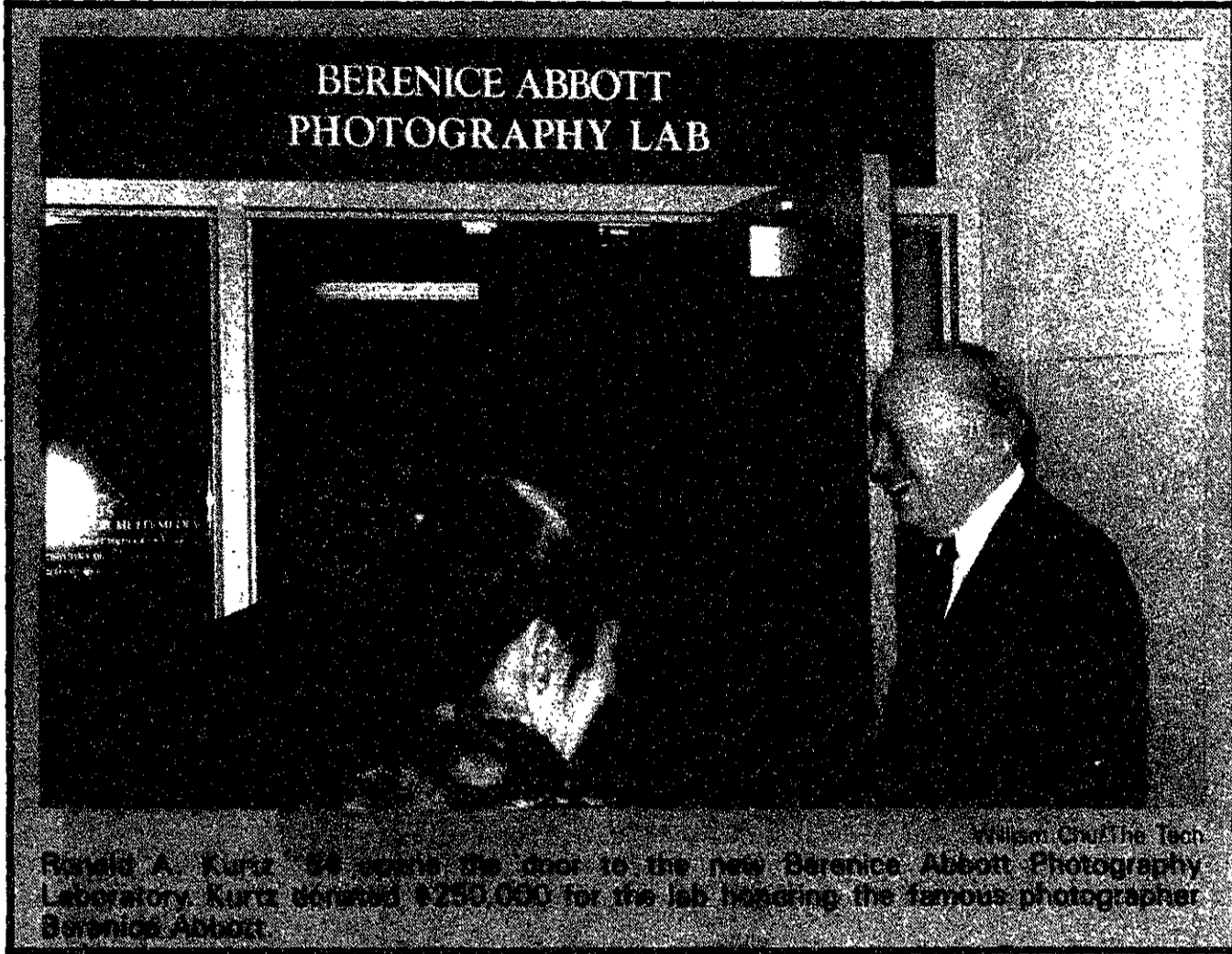
He brought his findings to the administration, which investigated possible places for the new library. After careful consideration, the "most feasible" idea was to "maximize the existing library," Lucker said.

MIT took on the project, which has an estimated cost of \$6 million. The Department of Architecture helped meet some of the cost by soliciting donations from alumni.

MIT settled on a design proposed by Schwartz/Silver Architects of Boston, after interviewing five other proposals in the spring of 1988.

According to de Monchaux, the Department of Architecture is willing to rename the library after any donor who gives a large sum towards the project. If the library were renamed, the reading room would retain the "Rotch" title.

A formal dedication will be held in the spring.



Ronald A. Kurtz stands in the doorway to the new Berenice Abbott Photography Laboratory. Kurtz donated \$250,000 for the lab honoring the famous photographer Berenice Abbott.

KAT, DPi call first rush successful

By Chris Schechter

Two new independent living groups, Kappa Alpha Theta and Delta Pi, recently completed their first year of rush activities at MIT.

Both called their rushes successful, with DPi extending three bids to freshmen and KAT's national organization, known as the Grand Council, recruiting 56

members from all classes.

DPi President Lawrence P. Lubowsky '92 said that his fraternity, whose 34 members are former brothers of Alpha Epsilon Pi, gave out most of their bids a week ago. He said that their rush activities included several barbecues and a booth in Lobby 10. Expenses for the activities were paid by local fraternities, he added.

Lubowsky remained confident that more freshmen will be invited to join this year. None of the invited freshman have committed themselves to pledge yet, he added.

DPi's lack of a house means that its members are spread throughout the dormitory sys-

tem. Lubowsky admitted that "our fraternity is going through hard times," but added that "Delta Pi will be here next year."

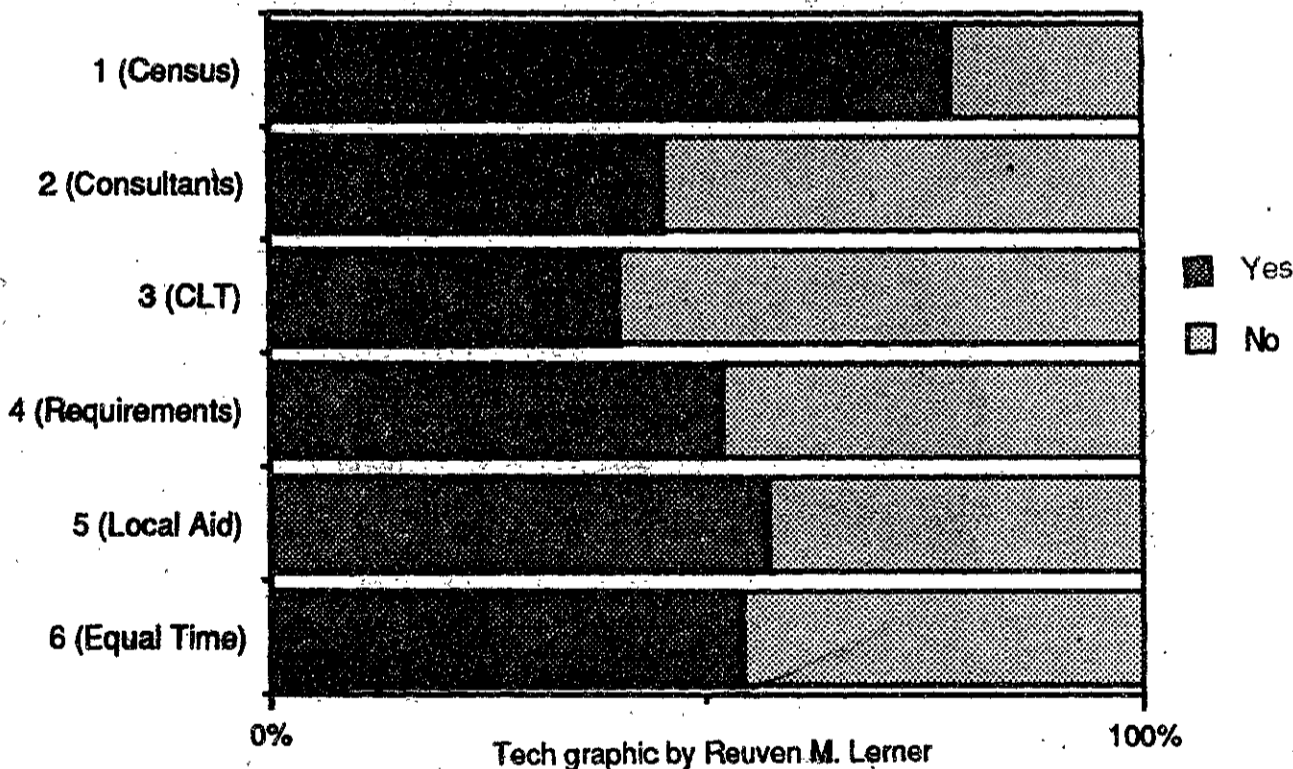
DPi was formed after the MIT chapter of AEPi was reorganized by its national organization last spring. The national claimed that the chapter violated its group insurance policy guidelines, and ousted all but 10 of the members.

Some of these members went on to form DPi, which has no national organization. DPi was given membership in the Interfraternity Council soon after its formation.

AEPi was restarted several weeks later with six new founding fathers, including one senior who

(Please turn to page 2)

Massachusetts referenda results



Weld beats Silber; Democrats gain seats

By Brian Rosenberg

Massachusetts voters elected Republican William F. Weld governor over Democrat John R. Silber, and defeated the controversial tax rollback referendum, Question 3, in Tuesday's election.

In midterm congressional races, the Democrats picked up one seat in the Senate to increase their majority to 56-44, and eight seats in the House of Representatives.

This year's elections have been viewed as a referendum for change, though not as strong as some had predicted. Many incumbents remained, despite nationwide voter dissatisfaction with the status quo.

The Republican ticket of Weld with Paul Cellucci for lieutenant governor defeated the Silber and Marjorie Clapprood team by a vote of 1,174,916 (52 percent) to 1,098,022 (48 percent), with all but one of the 2,138 precincts reporting.

Governor-elect Weld, the first Republican to be elected governor of Massachusetts in 16 years, resolved to repeal part of the \$1.2 billion revenue package passed over the summer. Weld said he believed voters wanted a leaner state government. He argued that cutting the sales tax on

services would only cost the state government \$71 million.

Weld's campaign benefited from voter mistrust of his opponent, who is president of Boston University. Election night polls indicated that as many as half of the voters who chose Weld did so to prevent Silber from being elected. Silber had been noted for his heavy-handed style and controversial remarks during the campaign.

Question 3 soundly defeated; Kerry beats Rappaport

Question 3, a proposal by the Citizens for Limited Taxation (CLT) to cut state taxes by \$2.1 billion, was defeated by a vote of 1,394,173 (60 percent) to 933,159 (40 percent), with all but one precinct reporting.

Of the remaining five initiatives on Tuesday's ballot, four were voted in: Question 1, a proposal to eliminate the state's decennial census; Question 4, a proposal to ease requirements for political parties to gain recognition; Question 5, a proposal to require 40 percent of all state tax revenue to be returned to cities and towns; and the purely advisory Question 6, which asked if

(Please turn to page 11)

College Board updates SAT to reflect education trends

By Jeremy Hylton

Beginning in 1994, the Scholastic Aptitude Test (SAT) and achievement tests will undergo a radical change in content, focusing more directly on reasoning and higher-level thinking skills, according to the College Board. The changes were made to keep the tests up to date with changing educational trends, college curricula and testing methods.

The new battery of tests will eliminate the Test of Standard Written English and the English Composition with Essay tests. The new exams will add subject tests in writing, Chinese, and Japanese.

Accompanying the changes in content are changes in the classification of the tests. The exam will no longer be called the Scholastic Aptitude Test, but simply the SAT, said Janice A. Gams, associate director for public affairs for the College Board. The standard battery will be called SAT I Reasoning Test.

The achievement tests, including the added tests, will fall under the SAT II Subject Test category. The new tests will be used in the 1993 Preliminary Scholastic Aptitude Test (PSAT) before being introduced in the 1994 SAT.

The College Board had considered changing the test for several years. "[These were] deliberate and planned changes," Gams



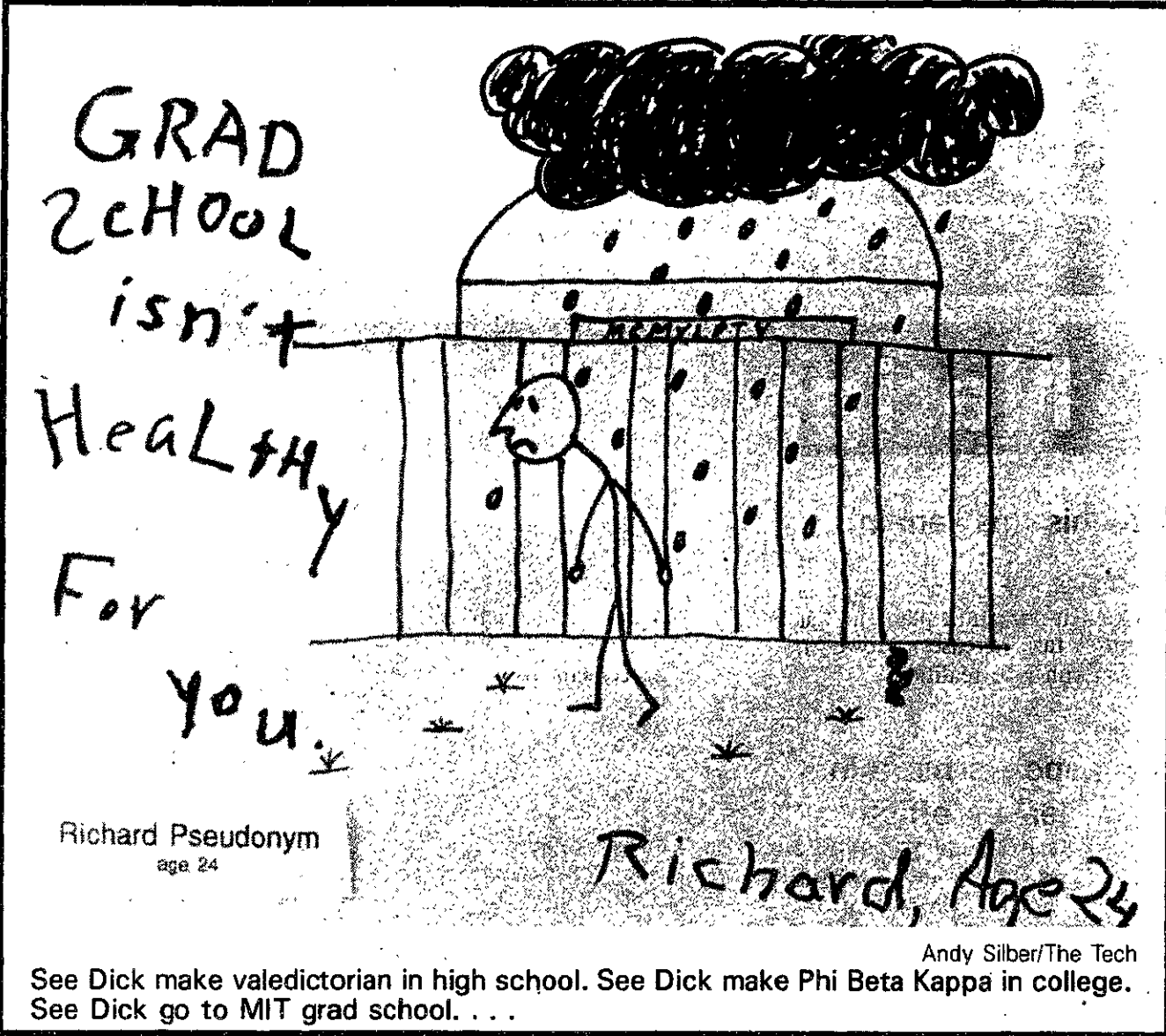
Tech file photo

Director of Admissions
Michael C. Behnke.

said. But the changes are not as significant as those envisioned when the revision process began five years ago. "When we started the investigation, we wanted to change the test more dramatically," said Michael C. Behnke, director of admissions and a trustee of the College Board.

Behnke and Gams agreed that the future of the SAT lies in computer-adaptive testing, in which computers administer tests that base questions on the student's earlier responses. Behnke acknowledged that it will take five

(Please turn to page 10)



ENROLL IN THE MARROW DONOR REGISTRY

The lives of over 16,000 victims of leukemia, including Chris Corcoran and Jonathan Lee, two members of the MIT community, depend upon a marrow transplant. If you are between 18 and 55 and in good health, you are urged to enroll in the marrow donor registry on

**Sunday, November 11
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for more information.**

DPI extends 3 bids; 56 pledge KAT after successful fall rush

(Continued from page 1) remained from the old chapter. Members are currently housed in dormitories, but the national organization has apparently promised them use of the chapter's house on Bay State Rd. starting next year.

While AEPi would not release rush figures, sources close to the group said they have pledged five freshmen. The group is no longer a member of the IFC, but has joined the Association of Student Activities.

Fourth sorority on campus

KAT, the newest sorority on campus, rushed during the third week of the term. The Grand Council sent some alumni to select new members, with a goal of pledging about 60 sisters.

To recruit members, the soror-

ity set up an information booth during rush week, followed by an informal party and interviews a few weeks later. This process will be repeated in the spring, when KAT will rush again in order to invite more sophomores and freshmen.

According to KAT Chapter Consultant Sara Spellman, the colonization of MIT was a great success. She did not feel the new sorority was put at a disadvantage by its delayed rush. "A lot of women waited for Theta" and are now "meeting the challenge of creating a sorority very well," Spellman said.

Although the initial rush was at the council's expense, the chapter is now on its own, drawing funds from fall dues. Theresa L. Fuentes '91, president of KAT, is confident that next fall her sorority will rush as an equal to the other sororities on campus.

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news roundup

from the associated press wire

World

US forces in Gulf to increase

Administration officials said yesterday that President George Bush will dispatch more ground troops to the Persian Gulf, many of them from Europe. Some reports said the new deployment could include at least 40,000 soldiers.

Secretary of Defense Dick Cheney added that the new deployment will include combat units of the Army National Guard for the first time. He said divisions from Georgia, MS, and Louisiana will be activated. Cheney would not say how many troops will be added to the region.

Soviets admit military force could be needed in Iraq

Soviet Foreign Minister Eduard Shevardnadze acknowledged yesterday that there could be circumstances requiring the use of military force to get Iraq out of Kuwait. His announcement came after discussions with Secretary of State James A. Baker III. Shevardnadze stressed that any decision to use force should be taken by the United Nations.

Baker was in Moscow looking for support for a Bush administration effort to get UN Security Council authorization for the use of force as a last resort.

Iraqi military chief replaced

Western analysts were surprised yesterday by the news of a change at the top of the Iraqi military. The Iraqi army newspaper reported that President Saddam Hussein fired his military chief of staff, a hero of the Iran-Iraq war. His replacement is the commander of the elite Republican Guards. Some experts said this could indicate the presence of opposition to Hussein's refusal to pull out of Kuwait.

Marcos, Philippine government discuss embezzlement charges

A Philippine government official said Imelda Marcos, widow of the former Philippine dictator, has agreed to give the government 60 percent of the money she has in Hong Kong banks if the government drops a lawsuit accusing her of embezzling government funds. The official said the government will agree to the settlement if it gets more than \$200 million.

Nation

Read his lips (again)

President George Bush is reviving his "no new taxes" pledge. Although he had to break his original promise to win approval of a deficit-reduction plan, he said he will not support any more tax increases. However, he also said, "Sometimes you run into realities."

Bennett speaks his mind as he leaves office

William Bennett spoke his mind yesterday as he resigned from his position as the president's drug policy advisor. He said Washington, DC, Mayor Marion S. Barry made his job more difficult. Bennett said he devoted special attention and resources to the nation's capital because its drug problem was so serious. He also said Barry, who has been convicted of drug possession, was part of the problem.

Bennett also called House Drug Committee Chairman Charles B. Rangel (D-NY) "a gas bag" and said he has "nothing to do with drug policy." Rangel had blasted Bennett's performance, saying that Bennett is "smoking cigarettes without any print on them if he's going to say there's been a reduction in drug use in this country."

Noriega's lawyer to ask that charges be dropped

Manuel Noriega's lawyer accused the federal government of violating his client's rights by recording the ousted Panamanian dictator's private conversations with his defense team. Attorney Frank Rubino won a court order barring Cable News Network from airing the tapes it obtained. Rubino said he will ask that all charges against Noriega be dropped.

Authorities at the prison where Noriega is being held said monitoring phone calls is normal procedure, though calls from attorneys are supposed to be confidential.

Rubino's action came after CNN aired excerpts from the tapes yesterday and announced that it was planning to broadcast more last night.

Cranston will not run in 1992

Senator Alan Cranston (D-CA) said yesterday that he has prostate cancer and will not run for reelection in 1992. The 76-year-old Cranston is one of five senators who allegedly intervened with federal regulators to help savings and loan owner Charles Keating.

American bases in Philippines under negotiation

Negotiators meeting in Manila report progress in their talks on the future of US military bases in the Philippines. The bargainers said they are discussing security issues, but would not give any details. A *Manila Times* report said the Philippine government has drawn up a draft agreement to give American forces limited use of the bases after the current leases expire next year. In return, the Philippines wants economic concessions.

Weather

Snow?!?

A potent low pressure system currently over the South Central states will move slowly northeastward, displacing any fair weather by Friday night. After a rainy Saturday, some drying may occur on Sunday. More clouds and precipitation are expected later on Sunday and into Monday, with a significant drop in temperatures to occur early next week. With cold air positioned to the north and west of New England and a potential for further development of the storm east of Cape Cod late in the forecast period, the possibility of some snow, especially inland, cannot be excluded.

Friday: Sunny start followed by increasing clouds in the afternoon. Winds becoming lighter and shifting to the southeast at 10 mph (16 kph). High temperatures around 48-50°F (9-10°C).

Friday night: Cloudy with temperatures near 40°F (4°C) in the city, low to mid 30s (0-2°C) inland. Precipitation, mostly in the form of rain (except well to the west and north, where it may begin as wet snow), will begin after midnight.

Saturday: Rainy and cool temperatures throughout the day, with a high around 52°F (11°C).

Saturday night: Partial clearing, remaining cool. Lows in the high 30s to low 40s (3-6°C).

Sunday outlook: Partly cloudy with a chance of some precipitation later in the day. Daytime highs in the 40s (5-9°C), dropping to the mid 30s (1-2°C) overnight.

Forecast by Marek Zebrowski

Compiled by Brian Rosenberg

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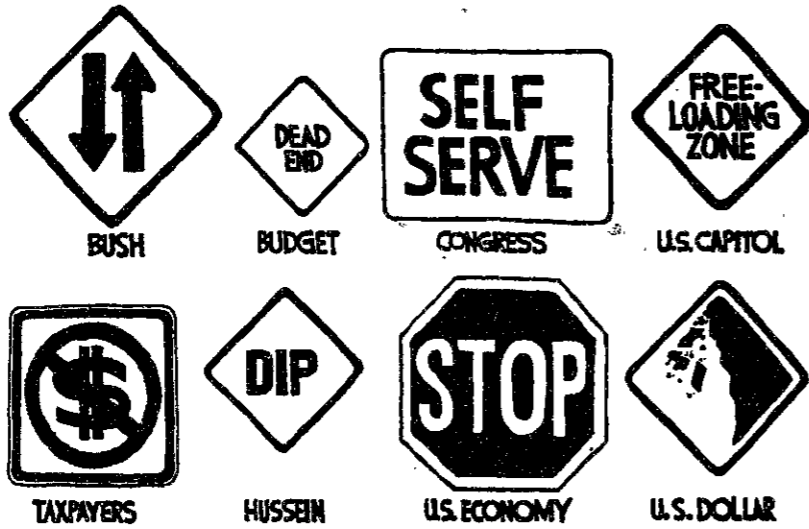
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opinion

Student input is valuable

Guest column by Manish Bapna

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The Tech

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MIT has undergone two major administrative changes in the past few months. President Paul E. Gray '54 and Provost John M. Deutch '61 have stepped down from their respective positions, and the MIT community looks toward Charles M. Vest and Mark S. Wrighton to lead the Institute into the future. The installment of these new leaders brings a great potential for change which has not yet been realized — the beginning of a restructuring chain which will move closer and closer to everyday student academic life.

The next major link in this chain is the selection of non-academic and academic deans and other higher-level administrators. Appointment of candidates for these positions is ultimately decided upon by Wrighton, who selects an advisory committee to aid him in the process by providing recommendations. The question is: What perspectives should be represented in formulating these recommendations?

The provost receives a \$1 billion budget at the beginning of each fiscal year, from which he allocates certain amounts to each of the Institute's eight deans. The amount given to each department depends greatly upon lobbying for respective interests by the deans, who then distribute the resources as they see fit.

How much money is received and how it is spent affects the research undertaken by each department, which has an effect on the faculty drawn to the Institute. Furthermore, the teaching faculty hired in terms of number and quality, and the classes and supplemental programs offered by the department are all determined by this process as well.

Every choice made when selecting the deans will directly or indirectly affect students in a substantial way. The focus of the Institute could very easily change from its current engineering bias to one of science or even liberal arts. Programs such as the Artificial Intelligence Laboratory, Media Lab, Undergraduate Research Opportunities Program, and departmental lectures and colloquia could lose or gain funding. The classes offered to students as well as who teaches those classes could also easily change.

I assume that the administration holds education in high regard, and thus would want to provide students with the best means of preparation possible. This can best be accomplished with student feedback and input. Since the deans affect every aspect of academic life, student perspectives should logically be considered when selecting deans. At the moment, however, such is not the case; there is no current plan to include a student representative on the advisory committee to Wrighton to select a new dean of engineering. Is this beneficial to the Institute as a whole? I contend that it is not.

It is a shame that the burden of proof should lie on the students every time we desire to voice our concerns. Are we not an integral part of the MIT community? Students should automatically have

Manish Bapna '91 is president of the Undergraduate Association.

LETTERS TO THE EDITOR

Progressive concerns top GSC agenda

I am currently a voting member of the Graduate Student Council representing the Department of Mechanical Engineering. I know both Carolyn D. Ruppel G ["GSC not representative," Nov. 2] and Michael D. Grossberg G ["GSC does represent student opinions," Nov. 7]. For me, the issues they have argued about boil down to the purpose and attitude of those on the GSC, especially new President Grossberg and Vice President Steven D. Penn G.

Grossberg has let others know his concern about the lack of a progressive agenda in the previous two GSC administrations, Peng/Warwick (1988-89) and Warwick/Hansen (1989-90). Grossberg expressed concern about the moderate views of some GSC members on, for example, the administration's pornography policy.

After last spring's protests and arrests, Grossberg became troubled in an Executive Committee meeting that some members of the GSC would not condemn the police "brutality" and scrutinize

positions on all committees unless a compelling reason exists for them not to be involved. I fail to see why a student position should not be included on the soon-to-be-appointed advisory committee — there is no limit to the number of members; it is not a salaried position.

A student member would have no detrimental effect whatsoever and would give further potential to the committee to select the best candidate. What loss can occur through inclusion of another viewpoint? One of the responses given to student groups was that student inclusion on the committee would prevent faculty from speaking candidly about their peers. I challenge someone to substantiate this as more than an ego problem — faculty members may command student respect, but they certainly should not pretend to be flawless.

Is it fair to deny us the right to represent ourselves simply to preserve a lofty illusion? Furthermore, by not including a student position, a feeling of alienation between students and administration is fostered — not at all like the "community" which MIT supposedly strives to be.

As far as precedents are concerned, there are several major universities which currently have student members on committees to select faculty and administration. MIT's political science department allows student participation on all levels of the department's legislative board — including the faculty tenure processes. All have positive results and provide for stronger faculty-student relations. If students are as important to MIT as the administration claims, I can see no reason why students should be denied participation.

The only other objection to student membership voiced by the administration was that students would not present a new, valuable viewpoint. But students would provide a unique perspective on such committees. To say that a student would not have a unique view is equivalent to saying that the other members of the committee would be able to substitute for every idea, value and experience that a student has ever had — something which is simply not humanly possible.

What if the student is able to see an important point from a perspective which the others overlook? Granted, this is true of any member, but the chances of a student being able to do so are much greater for many reasons: Students interact with groups most administrators infrequently see; we were raised in a different environment than those not of our generation; we have to be more concerned with job opportunities than those who already hold positions; our very lack of experience in these matters has not made us jaded.

It is very true that most students do not have the experience of our administrators and faculty. I do not deny in any way the importance of having the better-informed people take on the greater responsibility of choosing a dean. We are not asking for student voting power to balance out that of the faculty. We are requesting a voice in the hope that we may contribute a new perspective to the process. It is not too much to ask.

the administration. Grossberg and Penn packed the next GSC meeting with protesters (a few immediately became voting members of the GSC by filing the required 20 signatures) and passed the resolution authored primarily by Penn. It is with the purpose of pursuing personally-determined progressive agendas that both Grossberg and Penn sought offices of the GSC.

Accordingly, the current GSC has expressed a confrontational and militant attitude towards the administration. For example, during the last full GSC meeting, Grossberg indulged in a theatrical reproduction of what were probably considered private communications with administrators concerning GSC control of graduate committee representatives. Grossberg's portrayal of administrators as buffoons was greeted with subsequent cheers and hisses by the largely new GSC. I have never seen this type of behavior so callously displayed at any prior GSC meeting.

Personally, I view my attendance at MIT as a great privilege.

I respect the work of past administrators, faculty, staff and alumni. In general, I have little disagreement with either the administration or Institute policy. After I leave the Institute, I will have benefited much more from MIT than MIT from myself.

In contrast, other students view their attendance at MIT as some great entitlement. They believe they should be in control.

This attitude is reflected in the new GSC issue concerning the control of Institute committee appointment. Grossberg and Penn want (1) graduate students on all committees, (2) the elimination of the committee chairman's right to select a student representative from a GSC-selected short list of candidates, and (3) the ability to remove, as the GSC determines, "negligent representatives."

For the most part, the committee appointment issue is a power play by a few people in the GSC who have personal progressive agendas to pursue, at the expense of antagonizing and alienating administrators.

Randall D. Manteufel G

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SAYS

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Various career entry paths from MIT to GE will be discussed. These include Development Programs as the:

- Edison Engineering Program
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- Chemical-Metallurgical Management Program
- Software Technology Program
- Information Systems Management Program
- Research Technology Program

When and Where? Tuesday, November 13 (7-9 pm)
 Building 6
 Room 120

What else? Light refreshments and handouts.

The future is working at General Electric



An equal opportunity employer

August Wilson's latest fails to meet expectations

TWO TRAINS RUNNING

Written by August Wilson.
Directed by Lloyd Richards.
Starring Al White, Ella Joyce, Jonathan Earl Peck, and Ed Hall.
At the Huntington Theatre.
Oct. 26 to Nov. 25.

By MICHELLE P. PERRY

AUGUST WILSON'S *Two Trains Running* is at the Huntington Theatre in preparation for its opening on Broadway. Wilson's past achievements, which include a Tony Award, two Pulitzer Prizes, and several New York Drama Critics Circle awards, raise one's expectations to a peak which his most recent play cannot reach. *Trains* is a disappointment.

Trains is the third play in Wilson's decade-by-decade exploration of the African-American experience. It takes place in Pittsburgh in 1969 at a greasy spoon owned by Memphis (Al White), the central character of the play. The rest of the characters include Risa (Ella Joyce), the restaurant's waitress and cook, several regulars to the restaurant, and a young man, Sterling (Jonathan Earl Peck), who has just been released from jail. The play documents the interaction of these seven people as they come and go during the period of a week.

The theme of the play is summed up by one of Memphis' lines: "If you drop the ball, you got to go back and pick it up." Memphis "dropped the ball" almost 40 years earlier when he was run off his property in Mississippi by a group of white men. He is given a chance to "pick it up" at the end of the play by what amounts to luck, rather than any effort on his part.

Hambone (Sullivan Walker) has been struggling to pick up the ball for nine and a half years. Hambone was promised a ham in exchange for painting the fence of a white meat-shop owner. He was given a chicken instead, but refused to accept it. Every morning since then he has appeared at the owner's doorstep to shout, "I want my ham. He gonna give me my ham." Unfortunately, this has resulted in a deterioration of Hambone's mental condition to the point that the *only* thing he says anymore is "I want my ham. He gonna give me my ham."

The contrast between Memphis and Hambone undermines the theme of the play. It seems to imply that a long, arduous struggle for one's rights will only re-



West (Chuck Patterson), Memphis (Al White), and Sterling (Jonathan Earl Peck) in *Two Trains Running*.

sult in mental deterioration, and that the best thing to do is to wait around until a fortuitous opportunity for justice presents itself.

Sterling represents a young person actively involved in the civil rights movement. His attitude reflects that of Malcolm X rather than Martin Luther King Jr. Unfortunately, his character is not very well-developed, and there is little substance to back his passion. The actor playing Sterling is given the opportunity to shout the phrase "Black is beautiful," but the motivation for his actions is absent. With more development, Sterling would be an important representation of the sometimes violent spirit of the civil rights movement.

Risa is the only female character who appears on stage. It is unfortunate that Wilson does not depict her as being involved in either the civil rights or the women's movements. This is not to say that all young women of color were involved in either or both movements — however, Wilson missed an opportunity to

explore the unique problems a woman experiences when she must confront both racism and sexism, and often must give up one cause to support the other.

How Wilson *does* choose to depict Risa is rather disturbing. She uses self-mutilation as a tool to fend off men: each of her legs is badly scarred from self-inflicted knife wounds. As one character says, "Who wants a woman who sliced up her legs? What'll she do to me?" Her ploy seems to be effective, because men have been avoiding her. Wilson never explores the self-destructive and unbalanced nature of her personality that the scars represent. Nor does he explain why, after doing something so violent to herself, she allows Sterling to win her affection with seemingly little effort.

One character which is both well-developed and well-acted is Holloway (Ed Hall), the eldest regular of the restaurant. Holloway acts as a spiritual advisor of sorts; he recommends that his friends take their problems to Aunt Esther, a 322-year-old spiritual healer. Holloway's mono-

logues are the richest and most diverse, and the introduction of an aged physicality by Hall makes Holloway the most interesting character to watch and enjoy.

Many moments of the play show the inspiration and talent that have won Wilson so many awards. Unfortunately, the dialogue is sometimes ponderous, as he favors long monologues rather than a more realistic exchange of lines. This style would be more effective if the actors were more comfortable with their lines. However, after a week of shows many mistakes were being made, and efforts to recover lost lines were very obvious. One possible explanation for this is that Wilson is still rewriting sections of dialogue, and the actors are going onstage every evening with different pieces to try out.

Two Trains Running deals with a crucial moment in the history of the United States, and Wilson has established a very solid framework. Hopefully, the play will continue to grow and emerge onto Broadway as the powerful piece it should be.



COUNCIL FOR THE ARTS AT MIT

ARTS FUNDING AVAILABLE

The Grants Program of the Council for the Arts at MIT is now accepting applications for arts projects for the second of four deadlines during the 1990-91 academic year, on **Wednesday, November 14**.

The Grants Program has been established to promote cultural activity at MIT by providing financial and administrative support to arts projects in all disciplines. Regular projects include the design and production of new work, performances, exhibitions, film/video screenings, literary readings, and lecture programs. Proposals must offer opportunities to the MIT community to create, participate in, and learn about the arts.

All members of the MIT community are encouraged to submit applications for review by the Grants Committee of the Council for the Arts. Student applications receive primary consideration in the review process. Grant awards range from several hundred to several thousand dollars. Remaining deadline dates for 1990-91 are: February 13 and April 17.

The Council for the Arts at MIT is a volunteer advocacy group established in 1972, whose members are alumni and friends of the Institute distinguished by their commitment and service to the arts. The Council is now affiliated with the MIT Office of the Arts.

For application forms and Grants Program guidelines, please visit the MIT Office of the Arts (E15-205, Wiesner Building), or call Mark Palmgren, Council for the Arts Director, for more information (x3-4003).

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Professor Arthur Steinberg

Anthropology/Archaeology; Director, Integrated Studies Program

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4:00 pm (refreshments starting at 3:30)
Room 6-120

Office of the Dean for Undergraduate Education
The Undergraduate Association

For more information:
contact the Context Support Office, x3-7909

ARTS

Space Places chronicles man's reach for the stars

SPACE PLACES

Text by Robert Ressmeyer.

Foreword by Buzz Aldrin.

Photographs by Robert Ressmeyer, NASA, and other international space programs.

Collins Publishers, 208 pages, \$45.00

By DOUGLAS D. KELLER

WHEN I FIRST LOOKED at *Space Places*, I thought it would be another "up with NASA" collection of pro-America propaganda. But in an attempt to be fair, I decided to let the photographs speak for themselves and judge the purpose of the book only when I had a better knowledge of its contents.

Space Places is a collection of photographs primarily taken by Robert Ressmeyer. Through photographs and insightful text, Ressmeyer recounts the history of man's reach for the stars, focusing on subjects such as astronomy, life in the universe, international advances in space exploration, and missions to the planets.

Space Places begins with an overview of ancient observatories such as the pyramids

at Gaza, Egypt, Stonehenge in England, and the Star City of Beijing, China. Ressmeyer recounts the advances that the ancients were able to make in forecasting the seasons and predicting eclipses using the crudest of instruments. He then proceeds to document the improvements in telescope technology, the process of discovery of cosmic events, Supernova 1987A. The book

then moves on to the possibility of life in the universe, international advances in space exploration, future missions to the planets, and the dawn of the Second Space Age.

In the introduction to the book, Ressmeyer relates to the reader the basis for his interest in space: "Ever since childhood, space exploration has enthralled me. As a boy, I liked its mysterious implication of the infinite and the eternal. As an adult, my career as a photojournalist has enabled me to visit the world's leading centers of research — *Space Places*, I call them." Ressmeyer became interested in space

upon hearing, at age eight, that there was something above the sky and that John Glenn was about to orbit the earth. Like the rest of America, he became hooked on space.

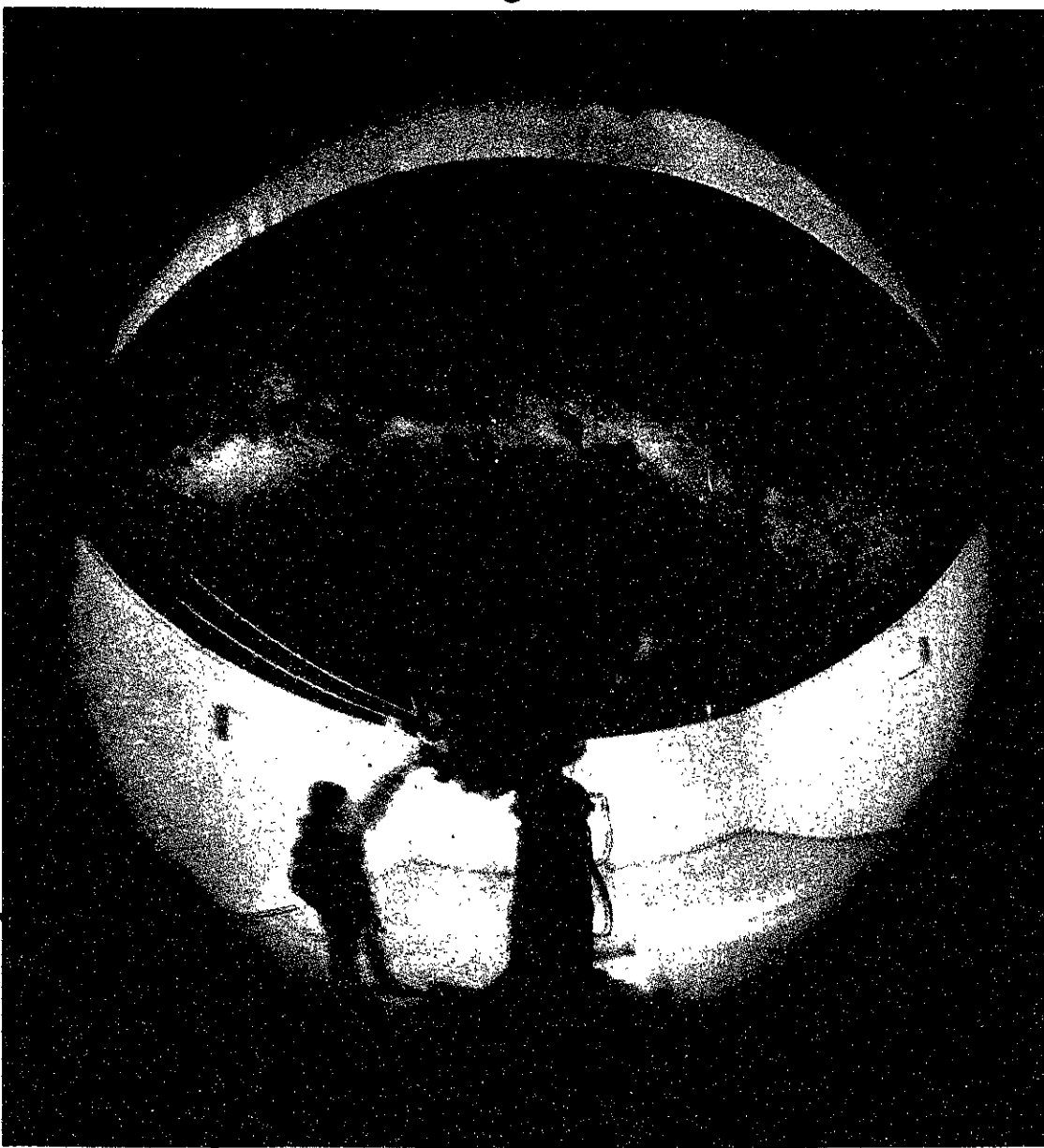
Space Places is a whirlwind tour of the important centers of space research and exploration around the world. From the Keck Observatory atop the summit of Mauna Kea, HI, to the Xichang Satellite Observatory in China, Ressmeyer has been to all of the major Space Places in the world. He has been on tours through Mexico to photograph the solar eclipse in March 1970; aboard the "vomit comet," NASA's KC-135 weightlessness research plane; and on a tower holding a fueled rocket so that he could reset his cameras. Ressmeyer's dedication and experience is what sets this book apart from others. He has been all over the world, talking to scientists, launch controllers, and researchers. His extensive knowledge of space research and exploration comes through in the text which accompanies the photos.

However the photographs are what catch your eye when you pick up this book. In a word, they are spectacular. When looking at these images, some of



Robert Ressmeyer

them seem immediately familiar; this is because most of the photos have appeared before in science and popular magazines. Ressmeyer uses elaborate strobe setups, indoors, to make the most boring of scientific environments come alive. Some of his most striking images, however, are taken at night. Through the use of long exposures — up to 10 hours in some instances — Ressmeyer transforms night into eerily lit "daytime" photos. Through the use of the long exposures, he also captures the rising and setting of the stars in the nighttime skies.



Space exploration and research is expensive. But Ressmeyer foresees the advent of a Second Space Age because the benefits of space research, in his mind, far outweigh the costs. "Around the world, space engineers are working on critical problems that precisely mirror

the environmental challenges facing the planet as a whole — and are developing techniques for safe production of energy, for recycling and waste management, and for finding new resources in the solar system that can benefit earth."

Space Places is an exceptional collection of photographs whose descriptions provide not only insight into the photographs themselves but a coherence for the book as a whole. It is definitely pricey at \$45, but with over 170 gorgeous color photographs, *Space Places* is worth the investment.

On The Town Updates

Compiled by Peter Dunn

Friday, Nov. 9

CLASSICAL MUSIC

The Radcliffe Choral Society and The Wellesley College Choir perform at 8 pm in Sanders Theatre, Harvard University, Quincy and Kirkland Streets, Cambridge. Also presented November 11 in Houghton Memorial Chapel, Wellesley College, Wellesley.

THEATER

Oklahoma!, by Rodgers and Hammerstein, is presented by the MIT Musical Theatre Guild at 8 pm in Kresge Auditorium. Also presented November 10 & 15-17 at 8 pm and November 11 at 3 pm. Tickets: \$9 general, \$7 MIT community, seniors, & students, \$5 MIT students. Telephone: 253-6294.

FILM & VIDEO

The Regent Theatre presents *Akira* (1990, Katsuhiro Otomo, Japan) at 4:45, 7:00, & 9:15 at 7 Medford Street, Arlington Center, Arlington, on the #77 MBTA bus line from Harvard Square. Also presented November 10 to 14 with Saturday & Sunday matinées at 2:30. Tickets: \$4.50 general, \$2.50 seniors and children. Telephone: 643-1198.

Saturday, Nov. 10

THEATER

Oklahoma! presented by the MIT Musical Theatre Guild in Kresge Auditorium. See November 9 listing.

FILM & VIDEO

The MIT Student Center Committee presents *Bill & Ted's Excellent Adventure* at 12 midnight in the Mezzanine Lounge, 3rd floor, MIT Student Center. No admission charge.

The Ad-Hoc Committee on Lesbian & Gay Studies at MIT and the North American Man/Boy Love Association present *Montreal Main* (1974, Frank Vitale) at 7:30 and *Broken Noses* (1988, Bruce Weber) at 9:15 in MIT Room 66-110. Admission: \$3 suggested donation.

Akira (1990, Katsuhiro Otomo, Japan) at the Regent Theatre. See November 9 listing.

Sunday, Nov. 11

CLASSICAL MUSIC

The Radcliffe Choral Society and The Wellesley College Choir at Houghton Memorial Chapel, Wellesley College. See November 9 listing.

THEATER

Oklahoma! presented by the MIT Musical Theatre Guild in Kresge Auditorium. See November 9 listing.

FILM & VIDEO

Akira (1990, Katsuhiro Otomo, Japan) at the Regent Theatre. See November 9 listing.

Monday, Nov. 12

FILM & VIDEO

The MIT Program in Women's Studies presents *Dreams of Hind and Camilia* (1989, Mohamed Khan, Egypt) at 7 pm in MIT Room 10-250. Telephone: 253-8844.

Akira (1990, Katsuhiro Otomo, Japan) at the Regent Theatre. See November 9 listing.

Tuesday, Nov. 13

FILM & VIDEO

Akira (1990, Katsuhiro Otomo, Japan) at the Regent Theatre. See November 9 listing.

The Tech Performing Arts Series announces

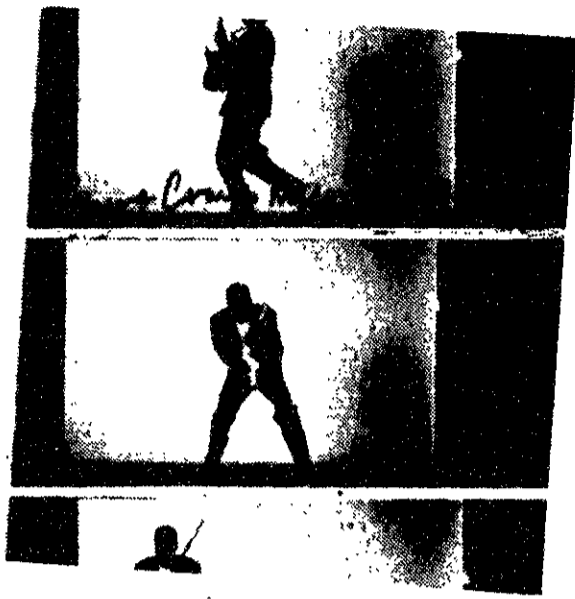
PRO ARTE CHAMBER ORCHESTRA

Hear the inspiration for *Amadeus!* The Pro Arte Chamber Orchestra will perform Rimsky-Korsakoff's one-act opera *Mozart and Salieri*, with James Maddalena as Mozart and Gregory Mercer as Salieri. The Back Bay Chorale will join the orchestra for Mozart's "Coronation" Mass. Beverly Taylor, director. Sanders Theatre, November 18 at 8 pm.

MIT price: \$6.

Tickets are on sale at the Technology Community Association, W20-450 in the Student Center. Office hours posted on the door.

Veterans Day Sale



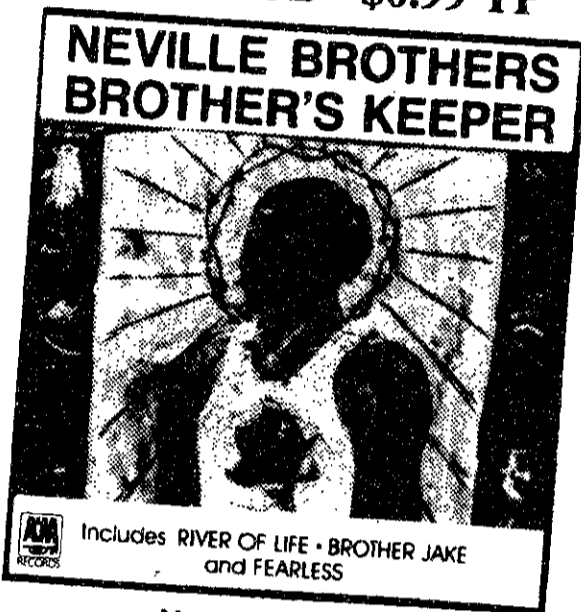
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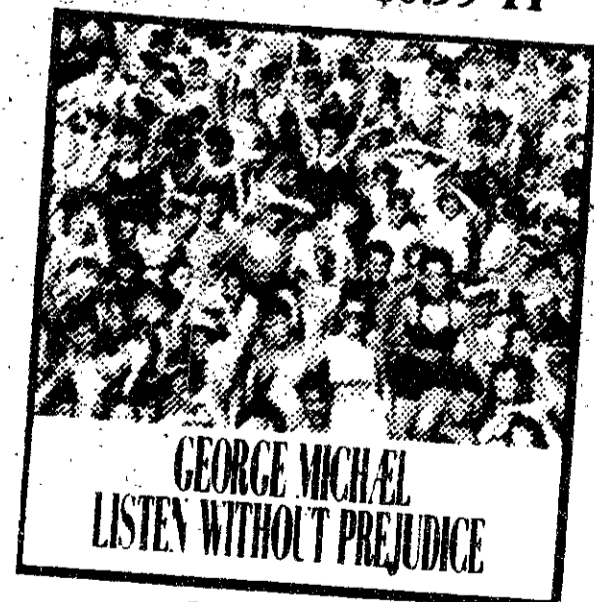
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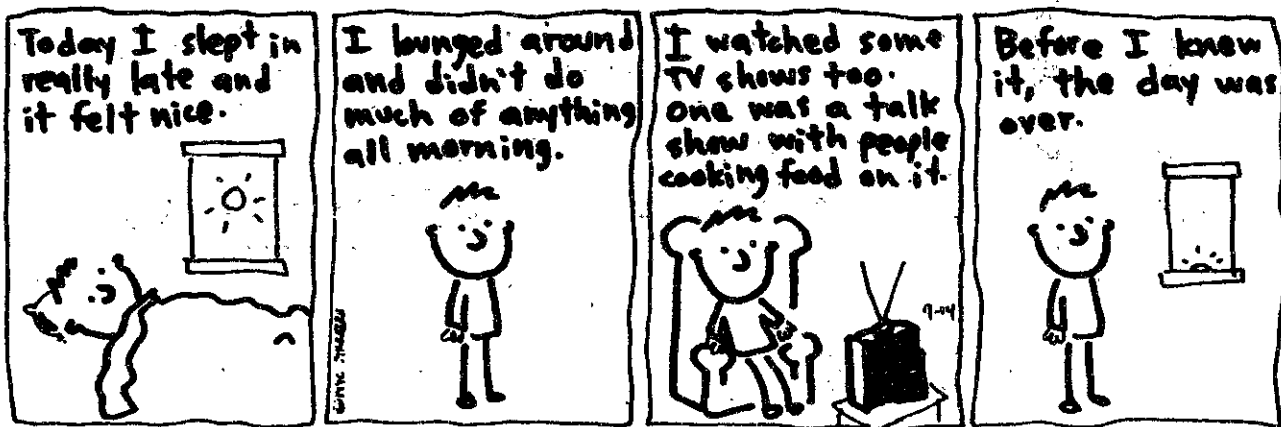
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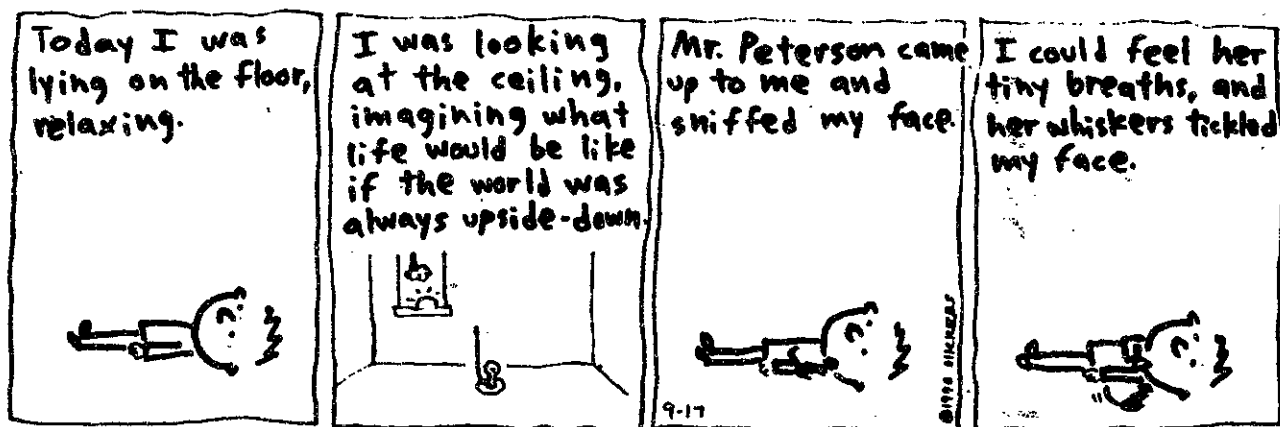


* Sale Ends November 12, 1990.

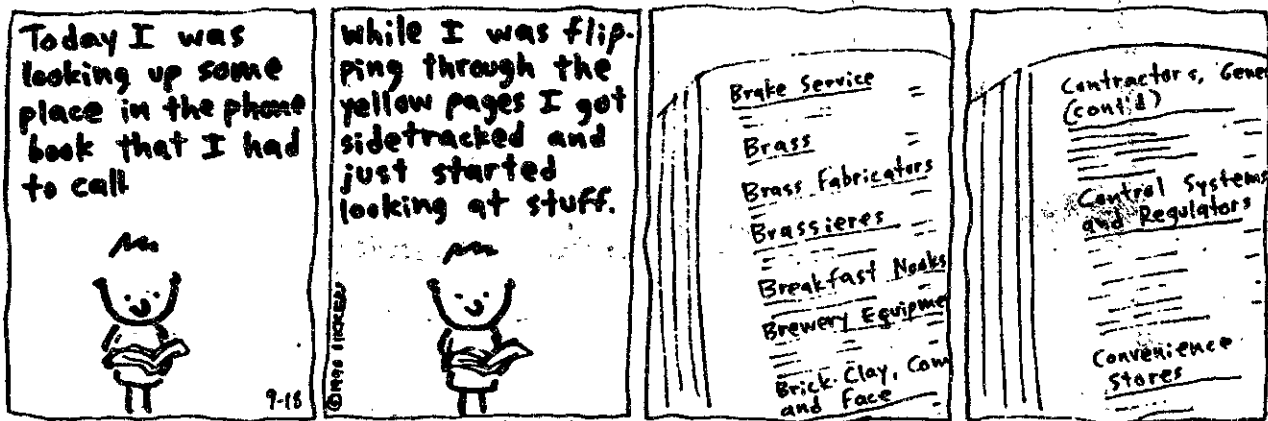
comics



Jim's Journal



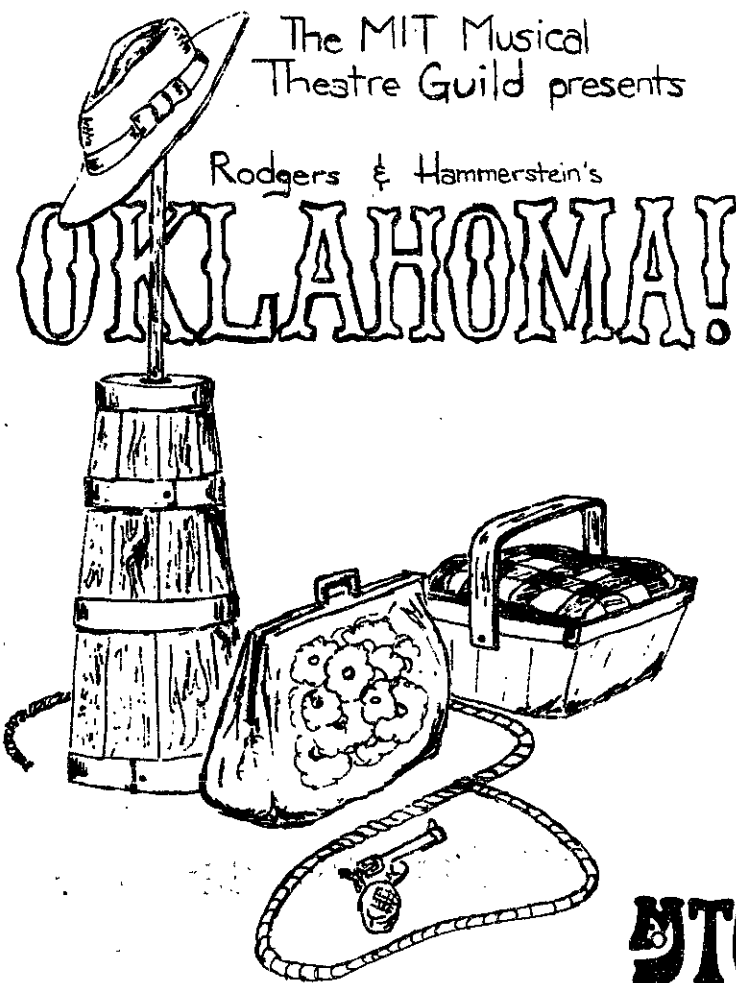
by Jim



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Tufts grad who developed a PC-based Satellite News Capture System seeks three to six students who can participate part-time in development. System is now being employed in commercial broadcasting industry. Contacts and experience will be worth more than the great pay. Need your own PC. Can work at leisure in your room on a project by project basis. Knowledge of Assembly Language and TTL/Micro Controller Programming and Design also a plus.

Please call Dave at (508) 820-7284 or (800) 833-4459 24 hours a day.



November 9, 10, 15, 16, & 17 at 8pm and November 11 at 3pm in Kresge Auditorium.

Ticket prices are MIT Students \$5, Students/Seniors/MIT Staff \$7, and General Admission \$9.

Call 253-6294 for tickets & info.

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TEACH FOR AMERICA information session

Monday, November 12th

Building 4, Room 153

7:00 p.m.

Teach For America is a national teacher corps of talented, dedicated individuals from all ethnic backgrounds and academic majors who commit two years to teach in urban and rural areas that have persistent teacher shortages.

Applications are due January 4, 1991

for more information contact Marie Seamon at 253-1700

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New SAT reflects math education changes

(Continued from page 1)
to 10 years before resources become available for this kind of testing.

Theoretically, students would take the exam while sitting at a computer terminal. "It will in effect permit a customized test. The test will move to the level where the students' abilities lie more quickly," by questioning a student based on whether or not a previous answer was correct, explained Gams.

Overall, Behnke felt the changes will have little effect on the admissions process at MIT. "I think we'll probably want to consider requiring the new writing test," he said. But he added that the importance given to test scores in the admissions process will not be affected by the revisions.

Writing test added to SAT

The SAT II writing test will subsume the current tests dealing with writing and grammar. The test, to be offered five times a year, will consist of a 20-minute essay written by the student and an essay containing several errors that must be corrected by the student. The second section is intended to "determine how well [students] can identify badly written sentences," Gams said.

Behnke sees the changes to the SAT II as "substantial in terms of languages." The addition of Japanese and Chinese subject tests will allow Asian students to demonstrate proficiency in their native languages, if they are not as proficient in English.

Spanish speaking students have that option now, Behnke noted, and "a lot of the Asian students feel that they are at a disadvantage on the English test and on the new writing test."

In the verbal part of SAT I, "there is going to be an emphasis on critical reading," Gams said. The highly-edited essays currently used to test reading comprehension will be replaced by essays more typical of college-level reading. "[The essays] will require judgment on the part of students as they sift through the facts," Gams said.

The verbal section will also be lengthened from an hour to 75-90 minutes, to create a less hurried test for students. The vocabulary section will use words defined by their context and will eliminate antonym questions.

The mathematics section will undergo more substantial revision, in order to keep up with changing trends in mathematics education, Gams said. Multiple-choice answers will be eliminated

for 20 percent of the questions. Instead, students will fill in their own answers for the questions. Non-programmable calculators will also be allowed during the test.

Changing trends in mathematics education

Sweeping changes in mathematics education began last year when the National Council of Teachers of Mathematics (NCTM) announced its new standards.

The standards call for greater use of calculators in the classroom and a reduction in the use of rote learning, in favor of reasoning and problem-solving techniques.

"I think [the SAT I math test] is a direct result of the changing NCTM standards," said Carol K. Stirling, head of the mathematics department at Northwestern Lehigh High School, a Pennsylvania public school.

Under the revised math test, a certain percentage of questions will be much easier with the use of a calculator. The remaining questions will take too long to solve by calculator and will require other means to solve. As a result, teaching will have to focus on when a calculator is necessary and when it should be avoided.

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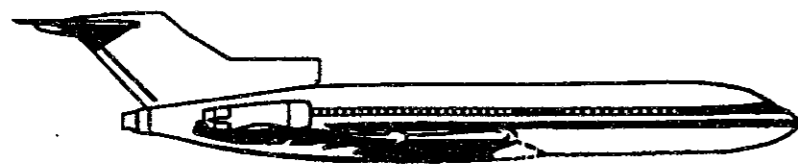
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The General Electric Technical Recruiting Team will be conducting campus interviews at the Placement Office for challenging career opportunities within one of the most diversified companies in the world. Contact the Placement Office to schedule an interview with one of our technical managers. Various entry level alternatives are available, such as:

- Edison Engineering Program
- Manufacturing Management Program
- Chemical-Metallurgical Management Program
- Software Technology Program
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Opportunities exist in such fields as:

- Artificial Intelligence
- Expert Systems
- VLSI
- Robotics
- CAD/CAE/CAM
- Computer Graphics
- Plastics
- Metallurgy
- Ceramics
- Software Engineering
- Signal Processing
- Controls

For more information on these programs and the major business areas available, refer to the General Electric file located in your placement office.

When and Where?

Wednesday, November 14th and Thursday, November 15th at the Placement Office.

What else?

Sign-ups commenced Tuesday, October 30th.

The future is working
at General Electric



An equal opportunity employer

Kerry reelected to Senate; Voters defeat Question 3

(Continued from page 1)
television stations should be required to offer free air time to candidates for office.

Question 2, a proposal to severely limit the state's ability to use outside consultants, and Question 3 were the only initiatives defeated.

In the race for one of Massachusetts' US Senate seats, Democratic incumbent John F. Kerry defeated challenger Jim Rappaport by a vote of 1,319,375 (57 percent) to 992,875 (43 percent). The campaign was marked by strong negative advertisements and a lack of focus on substantive issues, many observers agreed.

National election results

Across the nation, voters in 14 states elected governors of a different party affiliation. Seven governors changed from Republican to Democrat, five from Democrat to Republican, and two to independent.

Voters in Alaska and Connecticut elected independent candidates to those states' chief executive positions. Lowell P. Weicker Jr. became the first independent

governor of Connecticut since 1851. Walter J. Hickel, Alaska's governor-elect, had previously been governor of the state as a Republican from 1966 to 1968.

Democrat Ann Richards was elected governor of Texas in an extremely close race. Her margin of victory was roughly 100,000 votes out of 3.7 million cast.

In another significant race, Republican Jesse A. Helms retained his Senate seat, defeating Harvey B. Gantt MCP '70, 53 to 47 percent. Helms, who is known for his staunch conservatism, criticized Gantt's support for job quotas which benefit minorities. Gantt would have been the first black senator from North Carolina.

Senator Bill Bradley, who has been viewed as a potential future Democratic candidate for president, barely retained his New Jersey seat against a little-known challenger, Christine T. Whitman. Bradley outspent his opponent 40-1.

Overall, national voter turnout was low, with only a third of eligible voters casting a ballot. Turnout in Massachusetts, however, was exceptionally high.



Chris Blanc/The Tech
MIT Army ROTC cadets march to the Arnold Air Society's 24-hour flag vigil closing ceremony yesterday afternoon. The society, part of Air Force ROTC, sponsors the flag vigil annually in observance of national POW/MIA Week.

classified advertising

Classified Advertising in *The Tech*: \$5.00 per insertion for each 35 words or less. Must be prepaid, with complete name, address, and phone number. *The Tech*, W20-483; or PO Box 29, MIT Branch, Cambridge, MA 02139.

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Harvard-Epworth United Methodist Church

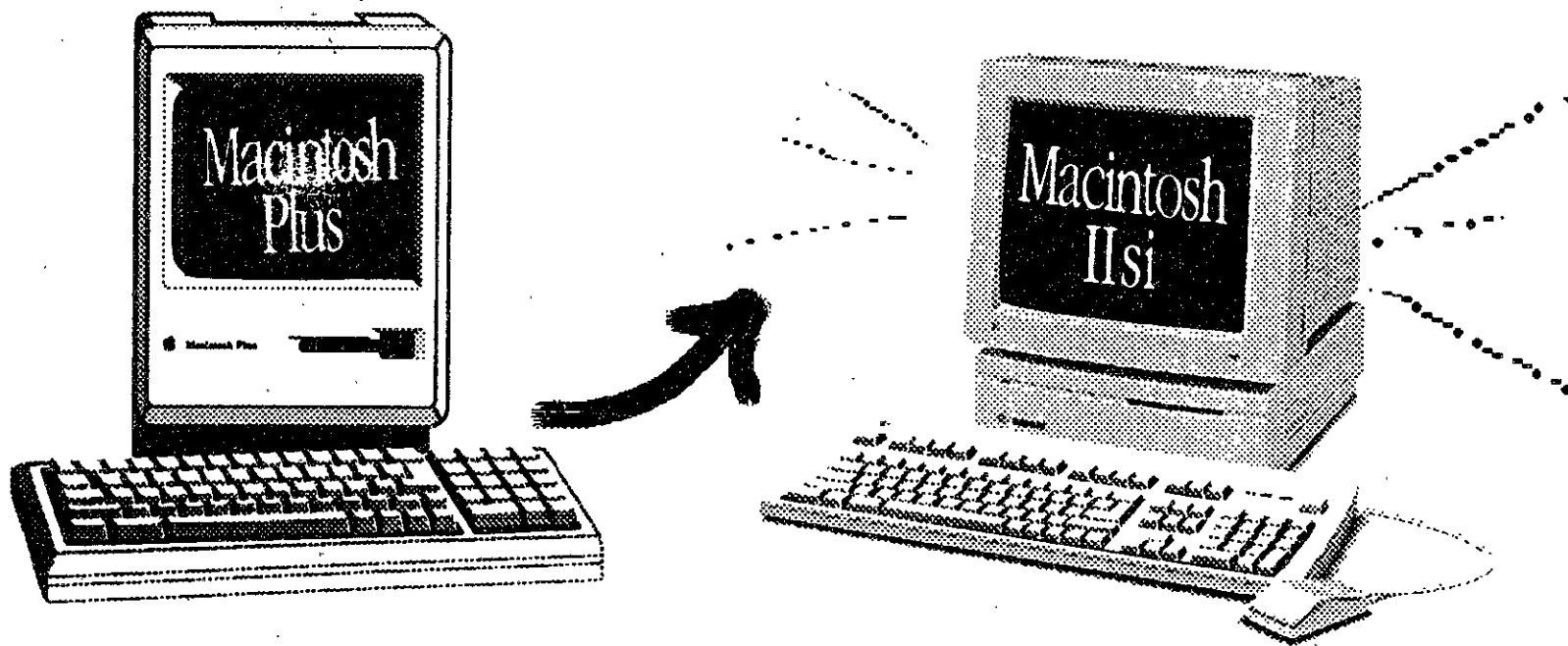
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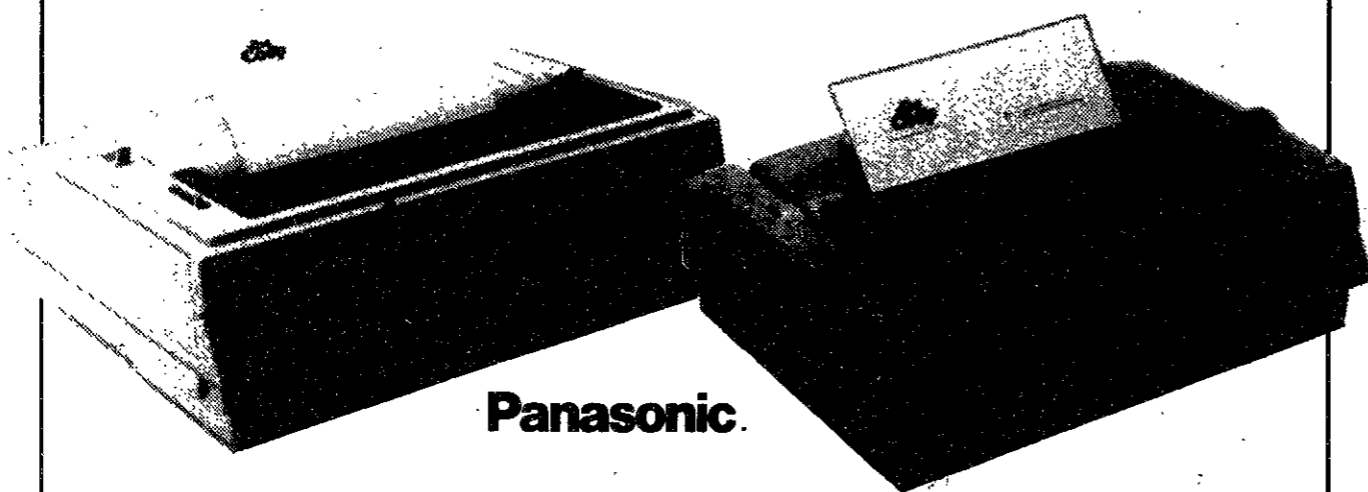
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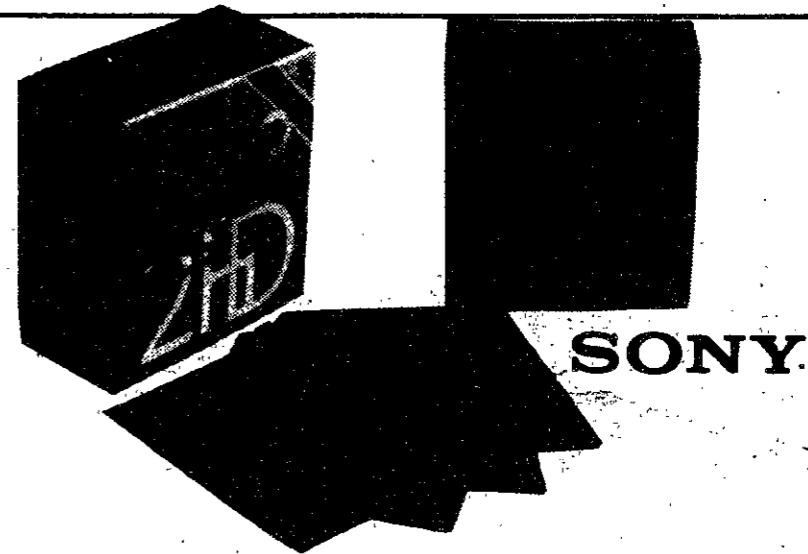
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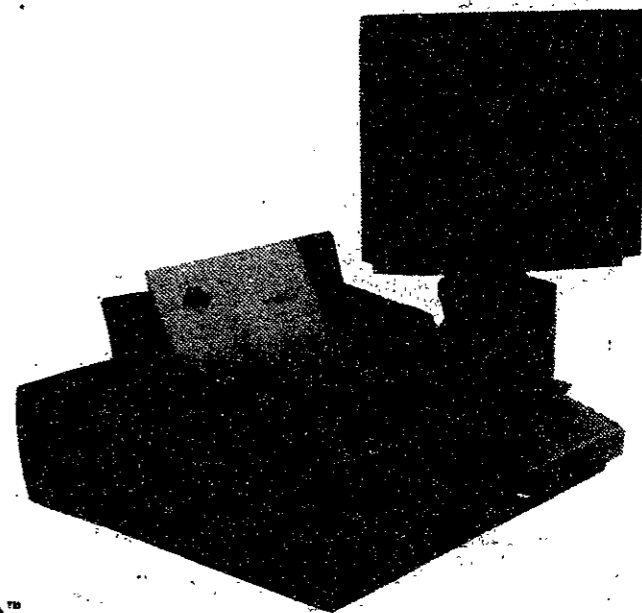
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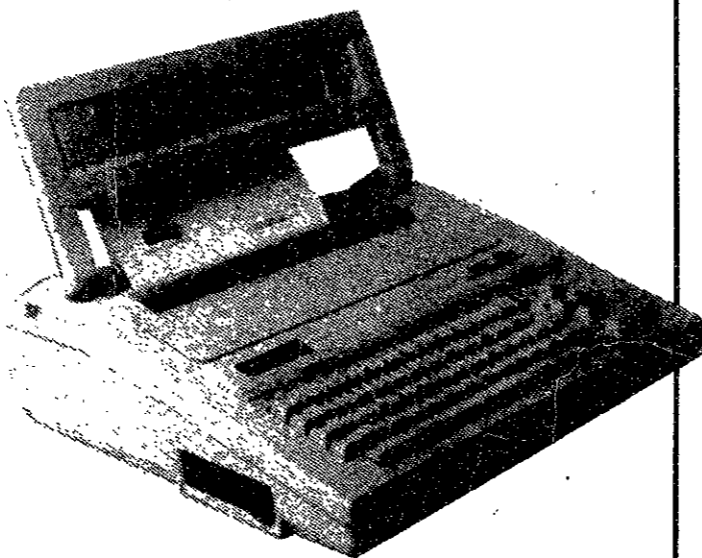
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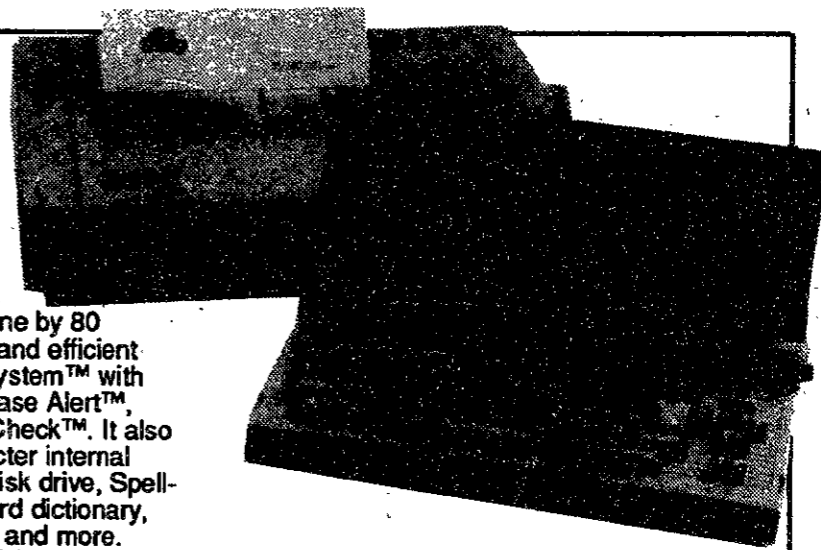
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