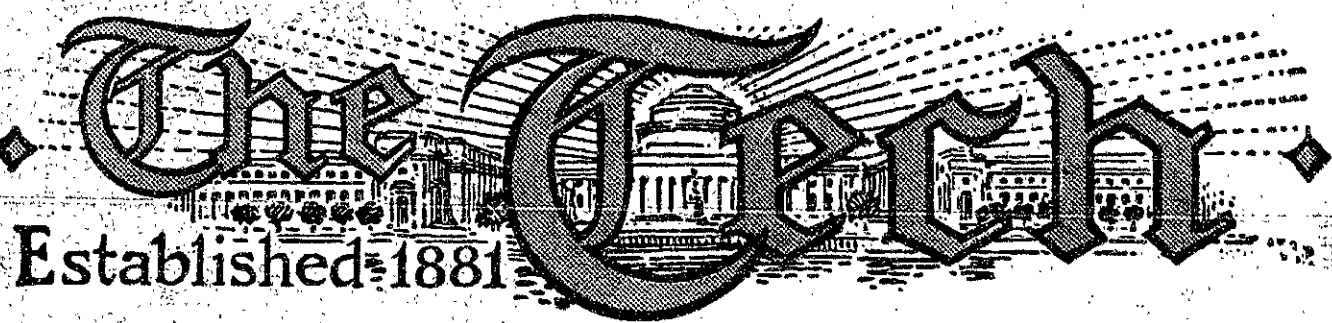


COMMENCEMENT TODAY

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Vol. CXI No. 27

CAMBRIDGE, MASS., MONDAY, JUNE 3, 1991

Free

VEST INAUGURATED AS MIT'S 15TH PRESIDENT

Sees MIT as Strong Player in Greater World Community

SEEKS RENEWED TRUST IN RESEARCH

(By Jeremy Hylton)

"We need to rebuild trust in this nation's research universities and scientific enterprise. We must ensure that the foundation of scientific and scholarly research is secure," new MIT President Charles M. Vest said at his Inauguration as MIT's 15th president.

Vest, who has served as president since October, was formally inaugurated on May 10. In his inaugural address, Vest discussed deteriorating public confidence in the cost and conduction of research, as well as MIT's role in shaping the future of the "greater world community."

[Additional stories and photos on the Inauguration of President Charles M. Vest appear on pages 19-22].

"The American public is coming into question the value of the research universities, and no longer tends to view science and technology as the foundation of progress," he said.

In an apparent reference to the controversy surrounding a case of scientific misconduct involving research done at MIT's Center for Cancer Research, Vest said, "How we deal with alleged misconduct will also affect the strength of society's confidence in and regard for our universities and colleges, and for the enterprise of science."

The case, involving falsified data in a paper co-authored by former Whitehead Institute Director David Baltimore '61, has sparked debate over the

2 FIJI SENIORS EXPELLED FOR THEFT

Stole Thousands in Computer Equipment; Fraternity Punished

(By Andrea Lamberti)

Two seniors, John S. Fortunato '91 and Garret M. Moose '91, were expelled for allegedly stealing over \$70,000 in computer equipment from MIT and installing it in the Phi Gamma Delta (Fiji) house. Justin M. Glotfelty '92, who was also in

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policing of science. "Our response, as an academic community, must not be one of knee-jerk defensiveness against our critics," Vest said.

Vest's concerns were echoed by Frank H. T. Rhodes, president of Cornell University, in his remarks on behalf of the

(Continued on page 19)

1733 TO GRADUATE AT COMMENCEMENT

(By Prabhat Mehta
and Niraj S. Desai)

A total of 1733 seniors and graduate students will receive about 1900 degrees today at MIT's 125th Commencement.

National Science Foundation Director Walter E. Massey will deliver the commencement address to the graduates and their relatives and guests at the exercises in Killian Court.

After Senate confirmation hearings, Massey took over as head of the NSF on March 4. He oversees an annual budget exceeding \$2.3 billion and annually awards 13,000 to 15,000 grants for research in all fields of natural and social sciences, and engineering. His term as NSF director lasts six years.

Prior to his presidential appointment, Massey had been

(Continued on page 26)

FACULTY OKS BIO REQUIREMENT

Overwhelming Approval for 7.01 Replacing One Sci-D Subject

FACULTY STUDIES DEMONSTRATIONS

(By Joanna E. Stone)

The already numerous General Institute Requirements have just been broadened. All MIT undergraduates will soon be required to take Introduction to Biology (7.01), starting with the freshman class entering in 1993.

The faculty overwhelmingly approved the proposal for a new biology requirement at its meeting on May 16. This was the major item on the agenda for the meeting and the final vote did not come down before lengthy discussion and a vote on an amended biology requirement proposal occurred.

Another major item on the

faculty meeting agenda was a report of the study panel on policies related to demonstrations.

Professor of Physics Margaret L. A. MacVicar '65 opened discussion on the biology requirement proposal, suggesting to the faculty that they "take the bold move now."

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Mark W. Dunzo '91 running for the gold in the 400-meter competition earlier this spring. Dunzo took seventh at the NCAA Division III national championships. (Tech photo by David Rothstein)



The Inaugural Procession, led by Carl M. Mueller '41 who was followed by Charles M. Vest and Paul E. Gray '54, pauses by Building 1 before entering Killian Court. (Tech photo by William Chu)

MIT DECLINES TO SETTLE SUIT

Denies Collusion with Ivies in Student Financial Aid Offers

OVERLAP MEETINGS NO LONGER HELD

(By Linda D'Angelo)

MIT has declined to sign a consent decree that would have settled the Justice Department suit against the Institute for allegedly colluding with other universities on financial aid in violation of antitrust laws.

ARA WINS CONTRACT, WILL TAKE LOSSES

Beats Out Marriott and Other Companies in Contract Bids

(By Bill Jackson)

ARA will provide food service to the MIT community for another five years, Senior Vice President William R. Dickson '56 announced last Wednesday.

The decision was based on the recommendation of a committee formed to review food service proposals. The new contract is unique in that it is based on a "profit-and-loss" system instead of the previous cost-plus-management-fee arrangement.

The committee has been meeting since April to choose the new contractor. Four companies, ARA, Marriott, Daka, and PFM, responded to the initial Request For a Proposal (RFP). Committee members assigned a score to each of the four companies in several categories, such as finances and marketing. Daka and PFM

(Continued on page 28)

The eight Ivy League schools also named in the 10-page civil antitrust suit — Brown, Columbia, Cornell, Dartmouth, Harvard, Princeton, the University of Pennsylvania and Yale — signed the consent decree, US Attorney General Richard Thornburgh said at a May 22 news conference.

"We do not believe that our practices violated the antitrust laws," Provost Mark S. Wrighton said. "Our interest all along has been providing the maximum amount of financial aid . . . in a way that allows students of modest means to have the kind of education that we offer."

Wrighton added that MIT officials did not know if they

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INSIDE

Dean's Office allows AEPi to house freshmen in fall. Page 2.

ATM theft leads to the arrest of two MIT brothers. Page 2.

Whitehead returns \$102,000 in misspent federal grants. Page 2.

Faculty study group supports strong foreign ties. Page 2.

Construction on University Park Sheraton begins soon. Page 23.

Technique '91 is flawed, but a worthy keepsake. Page 11.

AEPi will house frosh

By Prabhat Mehta

The Office of the Dean for Student Affairs has decided to let the reorganized chapter of the Alpha Epsilon Pi fraternity house freshmen in their two Back Bay houses. The decision comes in spite of the Interfraternity Council Presidents' Council April 3 vote not to recognize the Mu Tau chapter as an initial member of the IFC.

"The current group of undergraduates [in] AEPi are fine individuals that we want to be part of the MIT fraternity community," said Neal H. Dorow, advisor to fraternities and independent living groups. "It is our sense that AEPi is providing an environment that is every bit as positive as any other fraternity on this campus for freshmen."

Current AEPi President Jonathan A. Oleinick '94 said the ODSA's decision "will help the chapter a lot to grow and expand" and "will help the MIT community as a whole."

Oleinick said that after the IFC had voted not to recognize AEPi, he met with Associate Dean for Student Affairs James R. Tewhey, and asked him to consider granting the fraternity freshman approved housing.

After meeting with IFC President Holly L. Simpson '92, Tewhey, who heads the Residence and



Christian S. Marx/The Tech
James R. Tewhey



William Chu/The Tech
Neal H. Dorow

Campus Activities section of the ODSA, told Oleinick he did not feel the IFC's reasons for refusing to recognize AEPi were "sufficient enough" for the fraternity to be denied freshman approved housing, Oleinick said.

The new AEPi chapter was formed last spring, shortly after the fraternity's national organization removed 45 of the 55 Mu Tau brothers in February of last year. Citing concerns over the manner in which the reorganization was conducted, MIT and the IFC both withdrew recognition of AEPi at the time.

Only one of the 10 who were asked to remain chose to so; the other nine joined the others in forming Delta Pi, whose members left AEPi's Back Bay houses at the end of the spring term last year. Unrecognized and with only a few members, the new chapter of AEPi did not occupy either house this year.

"I think that Dean Tewhey should reconsider his decision," said former DPi President Lawrence P. Lubowsky '92. "The administration has been making hasty decisions."

(Please turn to page 25)



Douglas D. Keller/The Tech

The Somerville Fire Department was one of the numerous companies to respond to the seven-alarm fire at the Hans Kisse salad packaging company in Cambridge on May 20. The fire was accelerated by insulating plastic along the interior walls and residual sausage grease left from the previous owner.

Whitehead returns money

By Jeremy Hylton

In early May the Whitehead Institute for Biomedical Research admitted that it had wrongly charged the federal government for indirect research costs. The MIT-affiliated research institute refunded \$33,128 to the government, the second such payment it has made this year.

The payment, made to the Department of Health and Human Services, came a month after the Whitehead Institute made a similar payment of \$68,966 to the National Institutes of Health.

The *Boston Globe* reported that the funds were spent on "entertainment, travel, automobiles, gifts and flowers, community education, insurance of art, investment consultants," and what one document described as "travel associated with the *Cell* paper matter."

The *Cell* paper matter refers to a 1986 article in the journal *Cell* that was co-authored by former Whitehead director David Baltimore '61. In March, the NIH concluded that former MIT researcher Thereza Imanishi-Kari, another author of the paper, had fabricated data.

The \$102,094 repaid by the Whitehead Institute is in addition to \$731,000 that MIT wrongly claimed as indirect research

costs. A portion of the money returned by MIT, however, did cover money spent by the Whitehead Institute. The law firm of Kirkpatrick and Lockhart was paid \$27,317 to assist three MIT officials testify before a House of Representatives subcommittee on questions regarding the *Cell* paper.

Both institutes made their announcements after Rep. John D. Dingell (D-MI) requested them to review their indirect cost records. Dingell has spearheaded a national investigation of indirect research costs that has also focused on Stanford University and Harvard Medical School.

After reviewing their records, the institutes found that they had wrongly billed the government in 1988. There was no indication that further refunds would be forthcoming.

Professor of Biology Gerald R. Fink, director of the Whitehead Institute, and John Pratt, director of the office of administration, both declined to comment on the refunds. Instead, they referred to the statement released by the Whitehead Institute on May 10.

"Like many other academic and research institutions, Whitehead is re-evaluating the institute's policies and procedures with respect to indirect costs. As

part of this re-evaluation, the institute has identified certain costs inappropriately included in past indirect cost reports, particularly for the year 1988," the statement said.

"The Whitehead Institute has reimbursed the government for these costs in two separate payments. The re-evaluation process will continue in an effort to ensure the best compliance with government policies," the statement continued.

The Whitehead Institute had attributed its earlier error to an auditing mistake. A letter to the Department of Health and Human Services said that Baltimore had "clearly directed the administration of the institute to exclude these costs from the indirect pool."

James J. Culliton, MIT's vice-president for financial operations, also attributed MIT's error to auditing problems. He said some of the improper charges were errors that "slipped through," while others resulted from changes in government regulations defining allowable costs.

Indirect research costs are intended to cover expenses like building maintenance and departmental administration. Both institutes also receive direct federal research funds that cover expenses like equipment and salaries.

Group urges international ties

By Prabhat Mehta

MIT must maintain and enhance its international ties if it is to fulfill its mission and serve the interests of the nation, a recently released report from the Faculty Study Group on the International Relations of MIT concludes.

The 13-member study group recommends continued support and development of programs that foster international linkages, such as the MIT Japan Program and the controversial Industrial Liaison Program.

"Occasionally," the report, titled *The International Relations*

of MIT in a Technologically Competitive World, states, "there may be major conflicts between national and international roles." And in these cases "the administration, with the advice of the faculty, should give primary weight to the general responsibility to the nation."

However, the study group argues, "To remain a premier institution requires that MIT be thoroughly engaged in international activities in science and technology; it must be a full participant in the world trade in ideas."

"A set of basic principles"

"The things we recommend are not drastic changes," study group chair Eugene B. Skolnikoff '49, a professor of political science, said last week. The report's primary purpose is to "lay out a set

of basic principles" concerning international relationships, he explained.

The report describes MIT's primary mission as one of "fostering education and advancing knowledge for the betterment of mankind." At the same time, the report states, MIT is "a national institution rooted in American culture and traditions and an integral part of the nation's education and research system."

"MIT's responsibility to the nation mandates a strong interest in America's economic health, calling for programs and activities that go beyond the Institute's basic contribution through education and research," the study group adds. "In particular, we recommend an intensification of MIT's traditional mission of (Please turn to page 29)

Baden trial begins today

Steven A. Baden '92 — who has admitted he set fire to the "kosher suite" in Burton-Conner House — is expected to plead not guilty to five counts of armed assault with intent to murder in Middlesex County Superior Court today.

Baden was arrested Jan. 18 after police investigators found a rolled-up newspaper in the suite, burned at one end, and evidence that gasoline had been poured in front of all the suite doors except the door to Baden's room.

That same day Baden admitted to setting the fire. But at his arraignment on Feb. 4, he pleaded innocent to the charges.

Joe Quinlan, an assistant district attorney for Middlesex County who was present for the arraignment, said Baden's actions were "a culmination of a dispute of long-standing with another resident of the suite."

Assistant District Attorney Crispin Birnbaum said an insanity plea may be Baden's primary defense to the charges he faces.

In a pre-trial conference in February, Judge Paul A. Chernoff granted the prosecution's request that a state psychiatrist evaluate Baden.

Brothers arrested in ATM break-in

By Joanna E. Stone

Two brothers — one of whom was expelled earlier this year in connection with credit-card theft — were arrested last Sunday for breaking into the Shawmut Automated Teller Machine in the Infinite Corridor near Lobby 10.

Manlio Lopez '92 and Alejandro Lopez '93, both from the Department of Mechanical Engineering, were arrested at 5:19 am the morning of May 26, by MIT Campus Police who had been alerted to the crime by the bank's silent alarm system.

Arresting Campus Police Officer Clyde M. Brown was the first to arrive at the scene of the crime. "When I got there I noticed there was sawdust on the floor, the Bay Bank machine cameras were covered up, and the cylinder lock was missing from the door," Brown said.

Brown went to the other entrance across from Room 10-180 and "saw that the Shawmut machines were pulled away from the wall and a large hole had been cut through both of the doors which lead to the rear ATM machines." That is when he spotted one of the suspects — Manlio Lopez — with his back to him. Brown immediately radioed for back-up.

"It was a pretty tense situation because I didn't know if he [Manlio] was armed or not," Brown said. "I was shocked

when I found out they were MIT students."

Brown apprehended Manlio as he was leaving the ATM. He and two other officers then went into the Shawmut to search the scene of the crime, when he found Alejandro.

One brother found hiding under counter

"He was hiding inside the ATM under a counter," Brown said. "The money was with [Alejandro] under the counter — two big trays of money from the machine." Brown said he could not comment on exactly how much money was in the two trays except to say, "It was a lot of money, well in the thousands." Brown said that Alejandro also had an "assortment of hand-powered tools" under the counter with him.

The suspects were immediately taken to Cambridge Police and (Please turn to page 27)

Summer issues

The Tech will publish during the summer on June 26 and July 17. The July 17th issue will be sent to the incoming freshmen. The deadline for advertising and letters to the editor will be Sun on the Sunday preceding each issue.

The front page of this special commencement issue was composed in the style of The Tech in 1919.

news roundup

from the associated press wire

World

Kuwaiti ambassador: Iraq refuses to relinquish claims

The Kuwaiti ambassador to the United Nations said some kind of international force will have to remain in the Persian Gulf region if another war is to be prevented.

Mohammed Abulhassen yesterday accused Iraq of refusing to relinquish claims on the tiny oil emirate — saying Iraqi officials have repeatedly emphasized their right to absorb Kuwait. British ambassador David Hannay said if the reported Iraqi statements are true, then sanctions will surely continue.

That would put Iraqi citizens in an even more uncomfortable position. Observers said that sanctions imposed after the Iraqi invasion of Kuwait last August are beginning to take their toll.

Meanwhile, shortages are mounting and inflation is soaring in the wake of the Persian Gulf war. One observer predicted internal unrest will rise if the sanctions are continued six more months. But nobody in Iraq sees any alternative to President Saddam Hussein.

Kuwaiti elections set for October 1992

Opposition parties in Kuwait are upset with the emir. Sheik Jabar Al-Ahmed Al-Sabah yesterday issued a decree announcing parliamentary elections in October 1992. He also announced that the national council would be reconvened next month.

The emir's announcement brought an immediate outcry from seven opposition groups calling for early elections. They said the council formed last year is unconstitutional and claimed that the Al-Sabahs do not want democracy.

Yesterday's decree also changed the role of the council, saying it will have the right to discuss and organize parliamentary elections.

Opposition leaders said the plan is a play for time by the ruling Al-Sabah family in order to change election laws and districts in its favor.

The government has said in the past that the trauma of the Iraqi invasion and occupation had to heal before the elections could be held.

New theory in Thailand air crash

Investigators have come up with a new theory about the cause of the Austrian airliner crash in Thailand. Officials said yesterday that an investigation indicated that one of the engines aboard the plane went into reverse thrust, probably causing the plane to crash, killing 223 people.

Airline owner Nikki Lauda said a review of the plane's cockpit voice recorder showed that the pilots did all they could. But Lauda said "no pilot in the world" could have gotten the situation under control.

US denies rise in arms sales to Egypt

The United States has no immediate plans to step up arms sales to Egypt, according to a US official who asked not to be identified. Sources with information on yesterday's meeting in Cairo between Egyptian military officials and Defense Secretary Dick Cheney said the Egyptians are asking for a sizable amount of US military hardware, including warplanes, tanks, helicopters and artillery.

Hong Kong, Korea demonstrations worry Chinese authorities

About 10,000 people in Hong Kong marked the upcoming anniversary of the crackdown on China's democracy movement in 1989. The crowd marched three miles from a downtown park to the offices of China's official news agency. Protesters sang patriotic songs, chanted slogans and carried placards calling for the release of Chinese political prisoners.

In South Korea, protesters and riot police battled in the country's two largest cities. Security forces in Pusan are trying to contain a crowd of 25,000 students and workers which burst out of a university campus, throwing rocks and firebombs. Hand-to-hand fighting has been reported in Seoul, after police used clubs to stop a march to the city hall by 10,000 students and workers.

In China, authorities are working to make sure something similar does not happen. They have sent more police into Beijing, and tightening security at Beijing University, where banners and leaflets commemorating the June 4, 1989 massacre have appeared recently. Police are stationed in and around Tiananmen Square, the center of the 1989 protests.

Superpower summit depends on details

President George Bush hailed an agreement between Secretary of State James A. Baker III and Soviet Foreign Minister Alexander Bessmertnykh on a treaty to cut non-nuclear forces in Europe. Baker said negotiators will now start intensive work on a treaty to cut long-range nuclear weapons.

There may be a superpower summit in Bush's future. But exactly when a strategic weapons treaty with the Soviets will be ready for signing is subject to speculation.

National Security Adviser Brent Scowcroft said the previously stated target date of late June is ambitious, but he has not ruled it out. Baker said work on the treaty's technical details will begin right away.

It is those technical points — the "gritty details," in the words of Bush — which the president wants worked out before holding a superpower summit. Bush said that even though the two sides are close to agreement, the unresolved issues on strategic weapons may not be easy to solve.

Nation

Shuttle launch delayed until Wednesday

It will be Wednesday at the earliest before the National Aeronautics and Space Administration makes a third attempt to launch the Space Shuttle *Columbia*. Officials said that the navigational unit that failed on Saturday should be replaced by today, and the countdown should resume on Tuesday. The launch was scrubbed for the first time on May 22 because of computer trouble and concern over a cracked fuel sensor.

Supreme Court justice worries about religious freedom

Supreme Court Justice Sandra Day O'Connor said recent rulings by the high court have left her worried about the free exercise of religion in this country. She admitted the court is divided in its struggle to find a new test for determining the boundaries of church-state separation. O'Connor told a Philadelphia conference on religion that some justices have gone too far in limiting religious freedom.

Japanese attracted by America's biggest mall

The world's largest shopping mall may be a source of passing interest for Americans, but it seems to be a very big deal for Japanese businessmen who are flocking to Bloomington, MN, to see it. Minnesota tourism officials hope that the "Mall of America," which is not finished yet, will become a favorite stop for Japanese tour promoters, attracting up to 200,000 Japanese a year.

Local

New Jersey enacts assault rifle ban

The nation's toughest ban on assault rifles takes effect today in New Jersey, despite challenges by the National Rifle Association and sporting groups. Owners must sell them out of state, make them impossible to shoot or turn them in to police. Anyone convicted of possessing banned weapons faces a maximum of five years in prison.

Weather

Cooler times ahead

The combined effects of a southwesterly moving cyclone over the Canadian maritimes and a high pressure ridge over the Midwest will result in significantly cooler weather from Maine southward to Virginia over the next few days. Locally, an upper-level disturbance will cross the area today, possibly triggering an afternoon shower. Cooler weather will be the rule for most of the rest of this week.

Monday afternoon: Partly cloudy with an afternoon shower possible. Winds becoming northerly 10-15 mph (16-21 kph). High 75°F (24°C).

Monday night: Clearing and cooler. Low 53°F (12°C). Winds north by northwest 10-15 mph (15-21 kph).

Tuesday: Mostly sunny and still cooler. High near 70°F (21°C). Low 45-52°F (7-11°C). Winds north to northeast 10 mph (16 kph).

Wednesday: Variably cloudy with a few showers to the north. High 65-70°F (18-21°C). Low 47-53°F (8-12°C).

Forecast by Michael C. Morgan

Compiled by Dave Watt

The Tech would like to express its gratitude and congratulations to its graduating staffers:

- Andrea Lamberti • Prabhat Mehta • Kristine AuYeung • Jonathan Richmond • Taro Ohkawa • Shawn Mastrian • David Rothstein • Kristine Cordella • Mauricio Roman • Jordan Ditchek • Christina Boyle • Emil Dabora • Jon Orwant • Anne Sammis • Mohammed Eissa • Sarath Krishnaswamy • Greg Bettinger

Thank you very much and the best of wishes in your future endeavors.

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opinion

MIT: The infinite corridor

Column by Prabhat Mehta

When a child thinks of a day — of 24 hours — he sees an almost infinite expanse of time. An adult views that same period in terms of his daily calendar, and sees limits to what he can do in 24 hours. An MIT student, it may be said, sees little value in what can be done in a day. For him, weeks are viewed as limited time-frames. Few students outside our little haven in Cambridge will map out an entire week's worth of assignments, only to realize that come very early Friday morning, all will not have been completed.

Limits are a salient feature of an MIT education. That is why some compare an MIT education to trying to drink from a firehose. Perhaps it would be better characterized as trying to make your way down an infinite corridor (for that is what we are subjected to several times a day).

However it is characterized, the MIT education is basically a test of human endurance. Professors pile the work on, and the student returns the favor by taking as many hard courses as possible. There is that obvious masochistic quality to the MIT undergraduate, who enjoys telling tall tales of sleepless nights and endless problem sets. It stems from the silent battle between student and Institute (which also brings forth MIT's only worthy contribution to collegiate shenanigans — hacking).

The real purpose of broadening the MIT education should be to expose the budding scientist or engineer to the importance of creativity and originality . . .

So the MIT student leaves Killian Court with a diploma and a slouched set of shoulders. He enters the world with skepticism and perhaps a bit of cynicism; he is a realist; he understands the limits — the actual physical constraints — to his own productivity. At the same time, he feels that, after having escaped hell, a great burden is lifted, a Herculean task accomplished. Surely the rest of life, he thinks to himself (as he walks down Memorial Drive, eyes fixed to the pavement), must proceed downhill from here.

In some ways, this realist attitude is good. History holds in its records the names of countless over-reachers, who, if popular or simply born into positions of influence, lead entire nations to death and destruction. History also records (though somewhat less emphatically than Napoleon, Hitler, Saddam Hussein) the names of countless phonies who use a little superficial knowledge to feign wisdom. Rarely are MIT students accused of promising too much of themselves, and less often are Techies found gabbing ridiculously at cocktail parties. MIT students, then, are neither threats to our constitutional democracy, nor burdens on our welfare state.

At the same time, I cannot help but wonder if the MIT graduate does not at times confuse the limits on his productivity — an essentially physical constraint — with the less evident or quantifiable limits on his potential. Potential is defined not only by what may be produced but what may be conceived. A creative element is absolutely necessary to the craft of the scientist or technologist; it is a nontrivial component of his potential. I cannot help but wonder if the MIT student, having been beaten down by scores of problem sets and lab assignments, loses some of that ability to create something out of what was previously considered to be nothing.

A very successful professor once told me that the main difference she noticed between MIT students and those from traditional (read: Ivy League) institutions was one of confidence. MIT students, while trained like no others in the intricacies and subtleties of their trades, viewed the world at a much smaller level than their Ivy League counterparts, whose "broader" education enabled them to see no limit to their potential, their ability to leave their mark on society.

Confidence, if it does give the ability to expand one's vision of one's own potential, may very well be the key ingredient missing in the MIT education. I know some MIT students who say they have never been able to come from a test completely sure of their success, despite a regimen of preparation that typically includes countless hours of review and "mastery" of the course material. Indeed, few MIT students graduate without having been humiliated

Prabhat Mehta, a graduating senior in the Department of Economics, is an opinion editor and former editor in chief of The Tech.

by at least one exam. The lesson instilled by such horror is that you can never completely be sure of yourself or your knowledge. There is always more, though you will never have time to learn all.

That there is an ingredient missing from the MIT education is, of course, a debatable subject in and of itself. While there will never be universally acceptable criteria for judging the quality of curricula, some may argue that the grind that MIT's students undergo yields precision in a way no other style of education can match.

Perhaps. But that is not what MIT's own administrators and faculty believe. (And judging from student flamage, that is a far cry from what students believe.) Corporation Chairman Paul E. Gray

Technology and social and political progress in a free society are inextricably linked.

'54, when president, emphasized the necessity of broadening the MIT education. The inclusion of more humanities, he and many others argued, would make the MIT technologist more aware of the social context of his work, thereby enabling him to become a more effective leader.

While it is true and indeed lamentable that MIT's scientists and engineers often end up working for Ivy League grads, correcting that mistake should not be the primary focus of an educational reform initiative. The real purpose of broadening the MIT education should be to expose the budding scientist or engineer to the importance of creativity and originality, of challenging the orthodoxies of the day in an effort to alter what may have once been thought to be intractable.

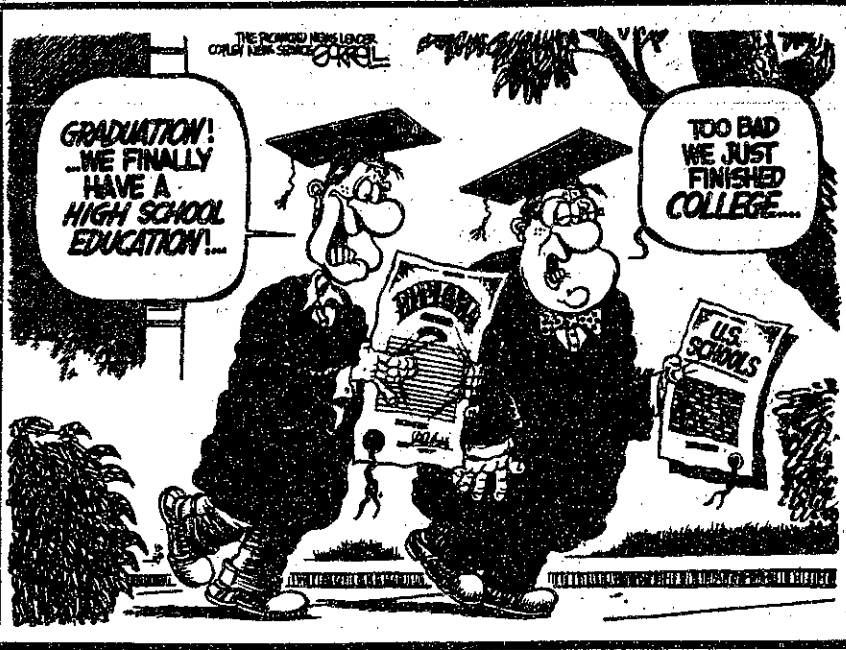
Such ideas are not subversive. Because they may only be pursued in a culture of freedom, such ideas must inevitably support the system that we in this country have come to cherish and that others have recently come to embrace as well. The innovative spirit, in fact, is what sustains our system of liberty. In that way, technology and social and political progress in a free society are inextricably linked. And it is from that view that MIT should consider broadening its education and improving the confidence of its graduates to pursue genuinely innovative ideas.

What would be the consequences of an education that further emphasized creating solutions to problems, rather than reallocating the existing pool of resources? This question becomes all the more pressing as problems concerning our environment, economic competitiveness, domestic cohesiveness, and geopolitical security continue to threaten our very existence on this planet. Solutions, as our past has shown, will rest not on our ability to mastermind a politically correct redistribution of resources, but rather on our success in designing whole new mechanisms and products.

Confidence, if it does give the ability to expand one's vision of one's own potential, may very well be the key ingredient missing in the MIT education.

Our past success in dealing with new generations of problems may in some ways support the view that MIT's education is done properly. But just as new problems require new approaches and altogether unique solutions (the founding of MIT being just one example), a new era requires a new educational paradigm. Committees talk of more humanities, more biology, more exposure to the rest of the world — in short, more diversity. In part, new attitudes toward admissions have reflected that emphasis on diversity.

The Class of 1991, which graduates today, is a product of many of the reform initiatives begun during the presidency of Paul Gray. New President Charles M. Vest has pledged to continue many of the initiatives of the Gray years and come up with some of his own. Administrators and faculty will debate the benefits of change — of whether there are too many or too few limits, and, correspondingly, whether there is too much or too little creative inspiration. In evaluating the success or failure of such programs, the Institute should not hastily draw conclusions, but watch closely the successes and failures today's graduating class encounters in the life beyond the infinite corridor.



The Tech

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opinion

Thanks, Mom and Dad, for the valuable gift

Column by Christina Boyle

During one of the last academic weeks, I opted to spend my Sunday entertaining myself instead of studying for my last final. I went to see *King Lear* at the American Repertory Theatre. It was a matinee performance and I innocently milled through the doors with what I perceived to be, an older crowd. There were no families, mostly married couples.

What I expected was a relatively passive leisure-break, but instead the performance took me on a journey into self-realization about my own impending rite of passage, Commencement. And what I did not know, that reading the play beforehand would have told me, is that *King Lear* is an emotionally charged tale, making it one of the most difficult of Shakespeare's plays to perform and also one of the most fantastic to see.

Basically, the story of *King Lear* begins at a turning point. With no male heir, Lear decides to divide his kingdom between his three daughters and then abdi-

Christina Boyle, a graduating senior in the Department of Economics, is a member of The Tech arts staff.

cate his throne. Before doing so, Lear poses a loaded question to his daughters, "Which of you shall we say doth love us most?" Like Lear, my parents have, by ways of preparing me for higher education and paying for college, presented me a "dowry."

Fortunately, my MIT sheepskin at least guarantees more long-term success and security than any monetary compensation (i.e., \$80,000) could provide. As I sat through the scene watching Lear wave the scrolled parchment deeds to his estate, I then suddenly remembered my father offering me, half in jest, a Camaro and free tuition to the local junior college, instead of MIT. Thank goodness I did not take the new car package, because I would have been surely shortchanged — MIT is at least worth a Porsche.

Lear goes on to bait flattery from each of his daughters. As Lear basked like a puppy in the praises of his daughter, Goneril, I tried to remember the last time I expressed gratitude to my own parents, who have never even asked for thanks. In fact, as I thought about it further, I started to worry whether my parents knew that I am

appreciative at all. My phone calls usually bring news of all-nighters and insecurities over grades, tests, rotten dates, etc. (Although the opposite would be absurd — who but a freshman would call home and

sisters, Cordelia chose to say nothing, and by doing so, delivered a controversial response to Lear's charge. She eventually explained herself to the bewildered Lear, "Unhappy that I am, I cannot heave my

I too agree that words cannot do service to the love, the thanks, and the admiration I feel towards my parents at this turning point in life.

flatly let Mom and Dad know how much they love MIT?) I can only imagine that my parents have probably at one time or another felt guilt, as if they were subjecting their first-born to cruel torture. What they do not realize is that there is a certain machismo associated with problem sets and classes at MIT, and my conversations not only relay a perverse form of bragging but also happiness and gratitude, MIT style. Somehow truths like these are difficult to utter in plain fashion.

Thus I found myself infatuated throughout the opening scene with Cordelia, Lear's youngest daughter. Unlike her

heart into my mouth. I love my Majesty according to my bond, no more, no less."

A Cordelia I am not, but her lines are particularly fitting; I too agree that words cannot do service to the love, the thanks, and the admiration I feel towards my parents at this turning point in life. As Commencement brings forth reunions, and families finally lay their eyes upon the place for which they ate potatoes and rice to afford, who can begrudge the unspoken thanks? An emotional journey in its own right, I hope that someday I can bequeath to my children such a gift as an MIT education.



Sleep deprivation not unusual for students

Guest column by Christopher Urban

Catch some ZZZs? Not a chance if you're a student. This time of the year, college students everywhere are facing the onslaught of final examinations and thesis defenses. Coffeehouses are getting their best business as students fill up on caffeine and sugar to keep going late through the "night before"; 24-hour diners are seeing unshaven and ragged groups of young people show up at 5 or 6 in the morning looking for food.

Working often for several days without a decent amount of sleep, students somehow manage to get done every assignment, every paper, every bit of research they haven't finished during the term. Then, when it's all over, they're off to find anything soft and horizontal to "crash" on. All the hours of sleep deprivation catch up and students are more than happy to let it happen. All because someone decided it was okay for preschoolers to have naptime every day, but not college students?

Scientists are constantly performing experiments on depriving the body of things it takes for granted everyday. Like taking late-night pizza delivery away from a student, scientists are depriving their subjects: observing people who remain in caves for months, deprived of light; feeding subjects differently to deprive them of vitamins or other essential nutrients; or making subjects lose weight to deprive them of fatty insulation during the winter.

But has no one realized the enormous potential here in Boston, with over 50 colleges and universities containing over a

quarter of a million sleep-deprived students in varying states of disarray and confusion?

The condition of students reads like the warning on a cold medicine bottle: Nervousness, dizziness and sleeplessness may occur. If symptoms do not improve within 7 days, consult your faculty advisor before

taking any more finals.

The idea of consulting with students to do research is not an unfamiliar one, it just surprised me to realize that this enormous potential for a laboratory in sleep deprivation has not been tapped. In 20 years, maybe we will hear: "The Center of Sleep Control in Cambridge, MA, has

posted a warning for New England and the East Coast that there is a good chance students will be falling asleep more this week, as finals draw to a close at many campuses."

There are countless research projects that could involve the lack of sleep and its effect on the human body. Eating, for example: Students deprived of sleep are reported to revert to food found primarily in machines that take dollar bills only. Has anyone ever measured exactly how many calories it takes to write a thesis? Could this perhaps be a future means of weight control? Instead of getting the "Freshman 15," there could be a way to prescribe preliminary research for a thesis topic.

Consider also the psychological aspects of the absence of sleep — students go nuts this time of year. This is when the best parties on campuses occur: Students are so dazed to begin with, they don't need alcohol to get crazy and dance in their brain-bashing style. Every hear of a riproaring college party during the summer? Of course not, since everyone's fully rested and back to normal.

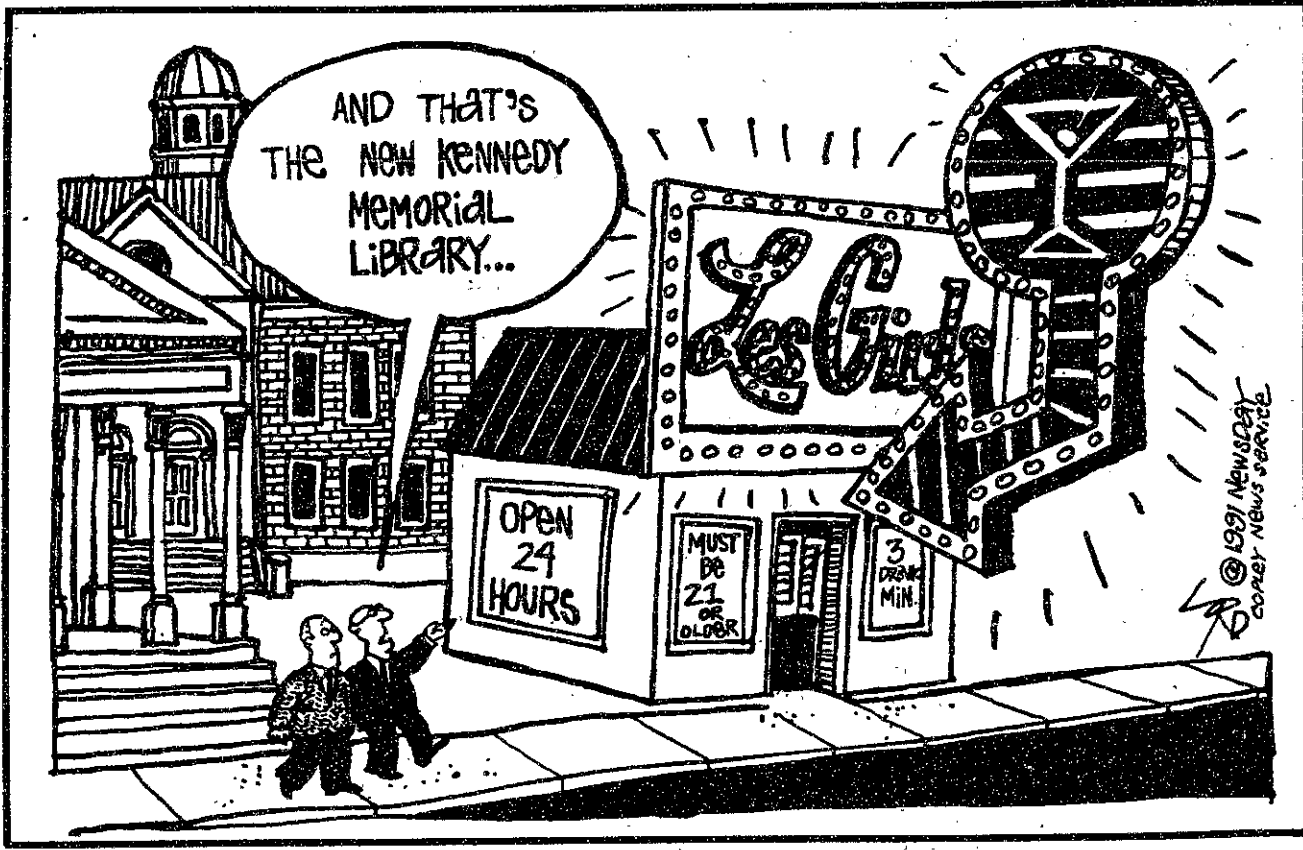
Perhaps, we do not want to encourage too much sleep deprivation research. We risk the chance that a cure might be found to offset deprivation's effects, bringing campuses back to "normal."

There is one consideration that makes such research problematic, and that is the aspect of conducting experiments. As any student who takes a lab course can tell you, there are at least two subjects needed for every experiment. With a quarter million students running around Boston without any sleep or rest as experimental subjects, where are scientists going to find a control subject for their studies? A student who sleeps enough is hard to find.



Christopher Urban is a senior in the Department of Architecture and is currently sleeping soundly somewhere in West Campus.

opinion



LETTERS TO THE EDITOR

MIT employee terminated without due notice

I am a 50-year old male nurse who put in 18 years of service on the inpatient unit of MIT Medical Department without any problems until July of 1989.

I was called into Co-Director of Nursing Services Maureen Dickey's office. Associate Medical Director Michael A. Kane was present, and I was terminated without any previous written or verbal warnings.

I had just gotten over open-heart surgery for a ruptured aorta and felt somewhat depressed. When I was told I was terminated I was shocked and got further depressed and decided to seek help using the usual grievance procedures.

I went to see Arnold N. Weinberg, medical director and head of the Medical Department, who listened but didn't offer to do anything. I went to the Medical Department Executive Director Linda L. Rounds, and she said she couldn't get involved because too many people were already involved, where in reality no one was helping me at all.

Shortly afterwards, I got a letter from Rounds stating that I should only be in the building for medical appointments and that if I'm seen there talking with anyone, the Campus Police would be called to remove me.

I then went to see personnel

officer Maureen C. Wolfe, who thought it was terrible that I got no verbal or written warnings for the 3 months before the termination. I then saw Susan Gaskell, and she too thought it was terrible that I had no written or verbal warnings as policy states I should have had.

I then went to see Special Assistant to the President Mary P. Rowe, and she too thought it terrible that I received no written or verbal warnings. I got no support, help, or suggestions from anyone, and was terminated without question and without any psychological testing for competence.

I applied for a disability, and if it weren't for my family I would have been out on the street, because it took one and a half years for the disability to come through.

The issues used to terminate me are things that nurses do every day and each nurse reminds the others of omissions or the record room sends the chart back to the nurse to fill in the missing items. I was not given that chance. I was terminated.

The issues of grave concern brought forth involved no danger to any patient. I am suing for wrongful discharge. Dickey also told me that if I tried to fight her, she would notify the Board of Registration of Nursing of my

incompetence.

On May 2, 1989 — I was told how well I was doing and then nothing further until the last two weeks of July, when I was terminated on July 28, 1989.

Robert Russell

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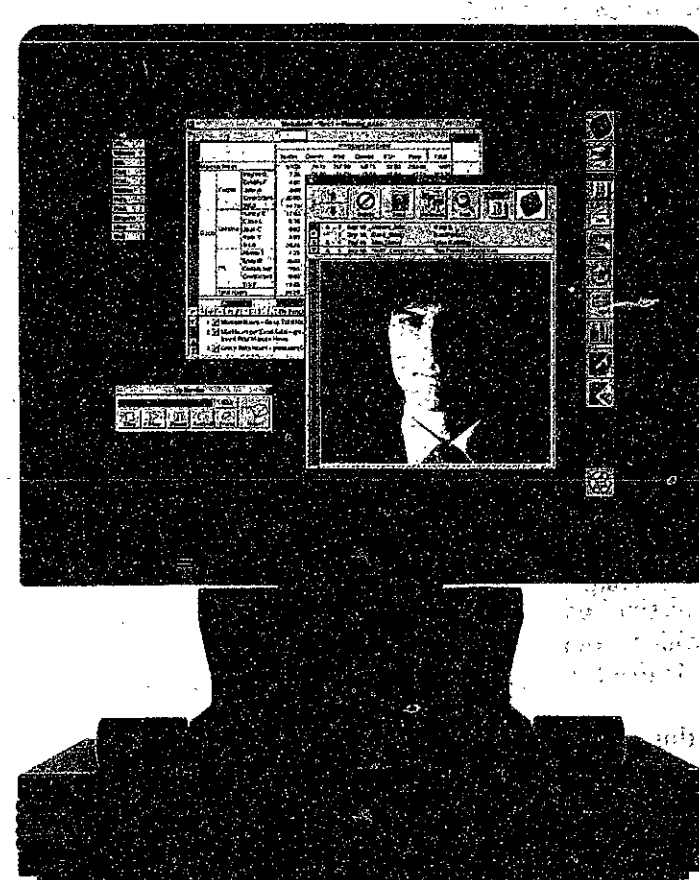
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opinion

Self-destructive PLO still untrustworthy

Column by Matthew H. Hersch

I was reading *The New York Times* over lunch a little while ago and in between french fries I noticed a little article, wedged up in the corner of page 2. The headline summed up the story: "P.L.O. Tells Beirut It Will Not Disarm Its Lebanon Forces."

Until recently Lebanon ranked as one of the bottom 10 tourist magnets of the world. The Palestine Liberation Organization was one of half a dozen or so armed guerrilla factions that had turned Beirut into a free-fire zone, nearly leveling the city and destroying much of Lebanon's national government. While the PLO was primarily interested in using Lebanon as a staging area for missile and terrorist attacks against Israel, other groups fought for such mundane goals as fundamentalist Islamic governments and beating the PLO in the competition for the highly coveted "Most Dangerous Faction in Lebanon" prize.

Then a few months ago, it all stopped. Well, not really, but after some Syrian in-

Matthew H. Hersch, a sophomore, is associate opinion editor of The Tech.

tervention and some considerable political lobbying, the Lebanese army began to disarm guerrillas and grant them amnesty and protection. The PLO, its goal of a Palestinian homeland within Israel not achieved, has ignored the Lebanese government, and refuses to demobilize, even if that means that thousands more Lebanese will lose their lives.

People generally will refrain from killing their neighbors unless threatened. By holding on to a great deal of Soviet weaponry (including some Scud-like surface-to-surface missiles) the PLO may perpetuate a civil war that shows every indication of reaching a cease-fire.

I am not going to address whether or not I believe that the PLO is just in its claims of sovereignty over territory in the Middle East. That is not the issue here. What matters is the observable truth that peace without victory is the arch nemesis of the PLO. A group that prefers physical aggression to diplomatic patience is motivated primarily by a desire to promote continuing hostilities until its goals are achieved. The Lebanese, like the Kuwaitis and Saudi Arabians before them, are a

people whom the PLO would quickly call upon as allies, yet would quickly fall victim if the PLO believed it had something to gain from their demise.

Refusing to disarm under Lebanese control, the PLO has offered instead to form independent military units coordinated with the Lebanese army, a proposal Beirut has courageously and wisely rejected. By remaining armed and autonomous, the

initiative has unearthed many old questions concerning the PLO's legitimacy as a political organization. I have heard many excuses for the PLO's recent actions, its stubborn use of terrorism, and its support of Saddam Hussein, but none of them make sense. "The PLO was driven to use terrorism and support Saddam by Western imperialism," many say, "how can we blame them for their frustration?" I'll tell you how.

By supporting Saddam, the Palestinians insulted the Kuwaitis and Saudis, the PLO's leading financial contributors. The PLO committed an act of suicide out of frustration. How can the world trust an organization so blinded by hate that it is self-destructive? How can we give land to an organization that refuses to acknowledge the autonomy of another nation, even a state like Lebanon which it considers to be its ally? How can we trust an organization that would so irresponsibly blame the West for causing it to commit acts of unspeakable brutality? How can we trust an organization that months ago chanted for our destruction? How can we trust the PLO, when nobody else does?

How can the world trust an organization so blinded by hate that it is self-destructive?

PLO could conceivably dominate the Lebanese military and government, bending the national agenda towards the goals of an unscrupulous foreign terrorist organization. Turning Lebanon into a permanent base would suit the PLO nicely.

Secretary of State Baker's Mideast peace

LETTERS TO THE EDITOR

AEPi frosh approved housing status rewards discrimination

(Editor's note: The Tech received a copy of this letter addressed to Associate Dean for Student Affairs James R. Tewhey.)

It has come to my attention that you have granted status as Freshmen Approved Housing to the Mu Tau chapter of Alpha Epsilon Pi.

I object to this because it rewards the Mu Tau chapter for its wrongdoings during the past year, it condones the actions of the national organization of AEPi, and the Interfraternity Council expressly voted against admitting the Mu Tau chapter into the IFC. I strongly urge you to reconsider.

Granting this status was a reward for the Mu Tau chapter. A reward which it did not deserve. You have rewarded the chapter for their very controversial rush practices this year, which some students have considered as harassing.

You have rewarded this chapter for acting against the requests of Neal Dorow, advisor to fraternities and independent living groups, during rush week last year.

Dorow asked the chapter to postpone their rush until after the main fraternity rush. Not only did they not wait, but the members of the chapter were wearing their letters at the freshman picnic, before rush even be-

gan. This is certainly not behavior consistent with a group that plans to respect Institute policy and the administration in the future, and this is certainly not a group worthy of being rewarded.

By granting this status to the Mu Tau chapter, you have subsequently sent a message to the national organization of Alpha Epsilon Pi that their actions in the past were acceptable.

This is an organization which

kicked out 45 of its members, and refused to accept the input of the MIT administration during the process. There is strong evidence that the national organization of Alpha Epsilon Pi is a discriminatory organization, and does not belong at MIT.

A national representative can be quoted as saying, during an interview with a former brother of the Mu Tau chapter, "Don't worry, you're Jewish. You'll get

IFC correct in voting to keep AEPi off campus

MIT surely is full of surprises! First there was the fact that anybody from my family actually got in. I remember the dazed expressions of wonder I saw on faces of parents from all over the world that fall when we came to see our son off on this unexpected and certainly up-scale venture.

Then there was the fact that our son, the teetotaling Quaker, had decided to live in a fraternity house! Oh, well, it was after all the house MIT had put him up in when he had come up to check the place out. It must be good, right?

Right! And that was the other surprise. Spending some time around the place and realizing that though the "Animal House" stereotype might be alive and well someplace, that place wasn't this particular house, I decided perhaps the wholesome atmosphere might be a result of this group's

being founded by Jewish men way back when. Having grown up in a Jewish community, I liked this theory.

"And look!" I told myself. "It's as cosmopolitan and hard-working a bunch as could have been found in our old '60s coops back at Oberlin. What a wonderful time we're living in!" I told myself. For a while, anyway.

"But these are the 1990s!" I shouted when our son called to describe his interview with one of the elders of his fraternity bent on making the house a better place to live.

"Shouldn't we be talking about my attitude toward insurance violations?" our kid had finally asked the man who was interviewing him.

Oh, life at MIT has been full of surprises, all right; and not all of them are terrific. My rosy view of how far our culture has

come since I was a kid is neither the only nor the greatest casualty of the Alpha Epsilon Pi mess, but I do miss it.

So you can imagine how I felt when I heard that the Interfraternity Council had voted not to let the national back on campus for a while. Not that that's going to make any difference, it seems, but hooray for them anyway! Not because they're vindictive but because they have a stronger sense of right and wrong than some of their elders. Good for you, kids!

You have not only destroyed

the credibility of the IFC, but you have clearly shown to the MIT community that you do not care about the thoughts of the students. I believe that this is totally unacceptable for an administrator in your position.

I can think only of one reason for your actions. This is that you have chosen the path of least resistance, instead of acting on what you know to be correct.

I understand, from personal experience, that the threats of AEPi's lawyers are not an easy thing to deal with. I also understand the effects of constant communication from Alfred H. Bloom '50.

Dee Birch Cameron

These things, however, are not valid reasons for making an administrative decision which carries such strong effects. I urge you to reconsider your choice.

If you will not rescind the status as Freshman Housing from the Mu Tau chapter, then I strongly suggest that you explain your actions to me, the IFC, and the MIT community, with whom you will have to work in the future.

Lawrence P. Lubowsky '92

MIT crossed line between concern and censorship by removing posters

Recently, these advertisements were placed on bulletin boards around campus, advertising a term paper and resume typing service.

Less than 24 hours after the signs had been put up, Eliot S. Levitt, senior office assistant in the Office of the Dean for Student Affairs, called the number listed on the advertisement, to inform the advertiser, me, that these signs "scared" him, and that he must be informed as to where each sign had been posted, so that he could take them down to protect students from viewing them.

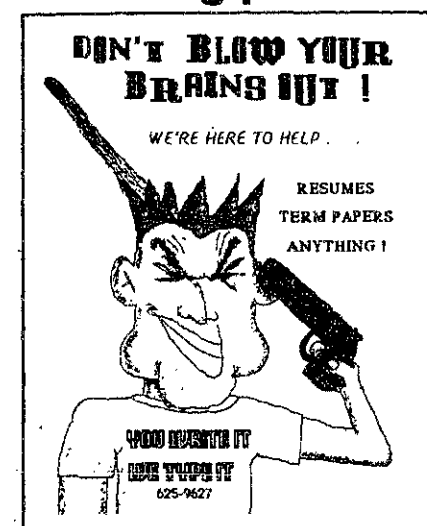
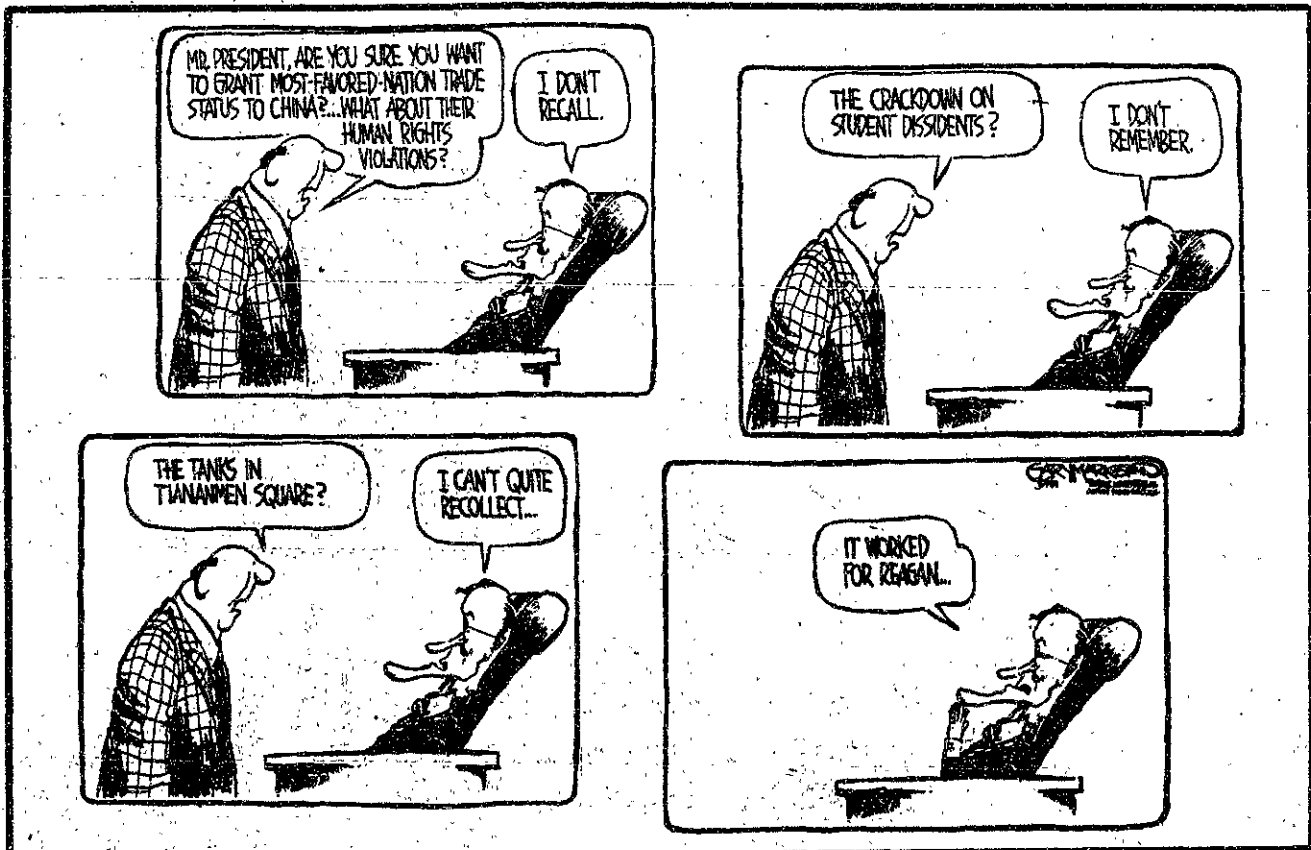
He said that the Dean's Office believes that during the period of final exams, many students would be so stressed out that they would see these signs and break down, succumbing to the supposed pressure of the advertisement's suggestion to blow their brains out.

Firstly, the signs state "Don't Blow Your Brains Out — we're here to help," so one would hope the message given is the latter — to get help, rather than the for-

mer. Secondly, the advertisement is clearly meant to be taken lightly — as an attention-getting ploy.

Finally, I believe that MIT is not only being highly overprotective and neurotic, but that the Dean's Office is not giving students the credit that they deserve; that they have common sense and are responsible for their own actions. There is a fine line between concern and censorship; and I believe the university has crossed that line.

Susan Geller





Charles M. Vest Inaugural Road Race

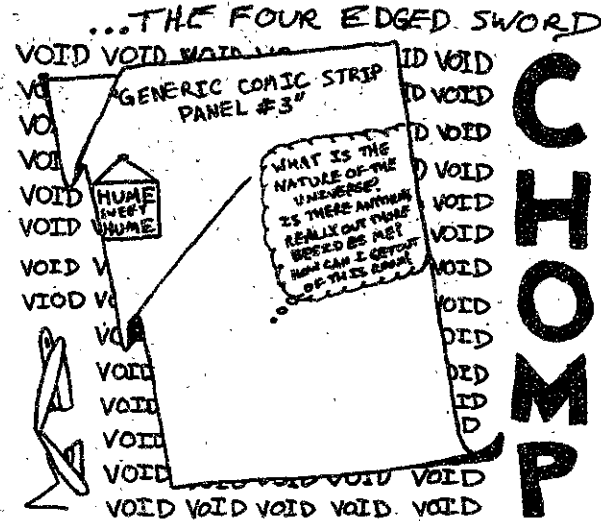
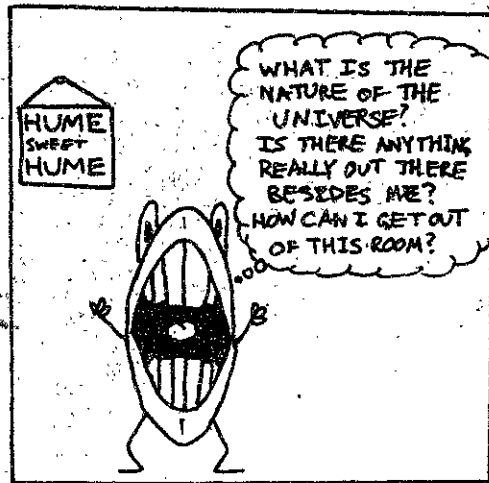
The Charles M. Vest Inaugural Road Race, sponsored by the MIT Community Service Fund, was held Saturday, May 11 under sunny skies. Hundreds of runners competed in the four-mile road race which ran along both sides of the Charles River from the Museum of Science Bridge to the Harvard Bridge. James H. Williams '91 won the race with a time of 20:11.

All photos by Morgan Conn



comics

ANGST - by Jon Orwant



OH NO! THE PANEL HAS BEEN DEVoured! ONCE THE AGREED-UPON COMIC STRIP CONVENTIONS HAVE BEEN VIOLATED, THE ARTIST IS FORCED TO BREAK FURTHER WITH TRADITION EACH TIME, RESULTING IN A NEVER-ENDING SPIRAL OF RECURSION, UNTIL BOTH CREATIVITY AND PATIENCE SNAP! YOU CAN NEVER GO BACK!
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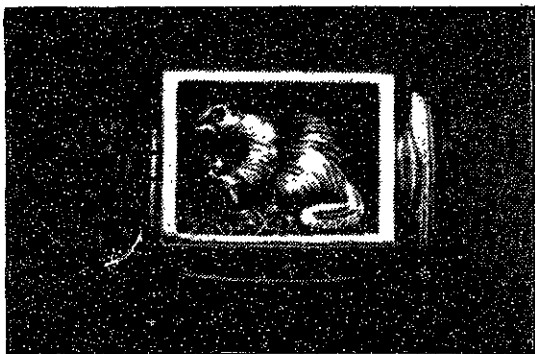
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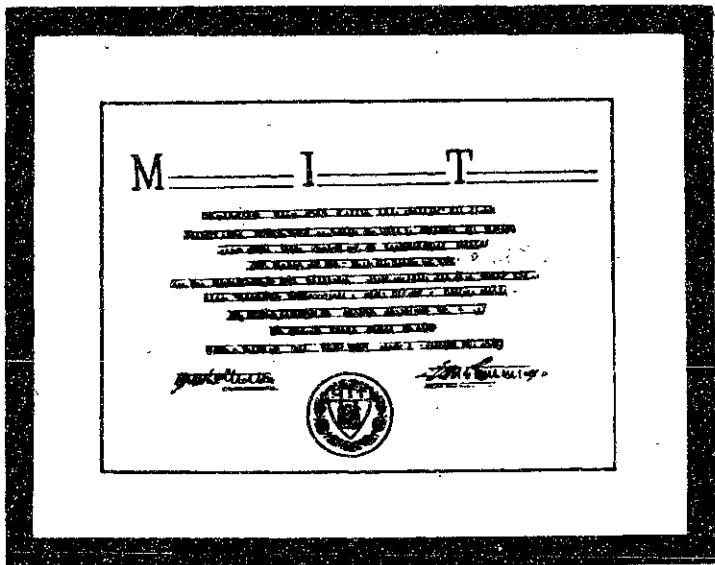
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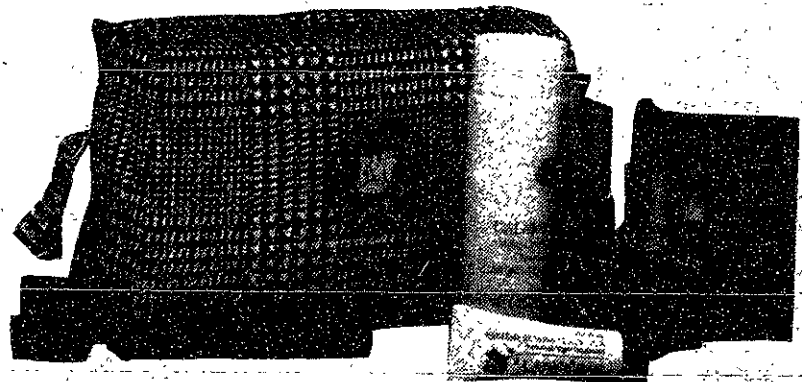
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Technique 1991 *flawed, but a worthy keepsake*

TECHNIQUE 1991

Judith L. Yanowitz '91, editor in chief.

By PRABHAT MEHTA

THIS YEAR'S TECHNIQUE CONFIRMS that 1989's disastrous edition was but an anomaly. The yearbook is perhaps the last remnant of the Institute many of us will hold on to. *Technique 1991*, though flawed, will be a worthy keepsake. It is impressive in size and quality, if not in completeness.

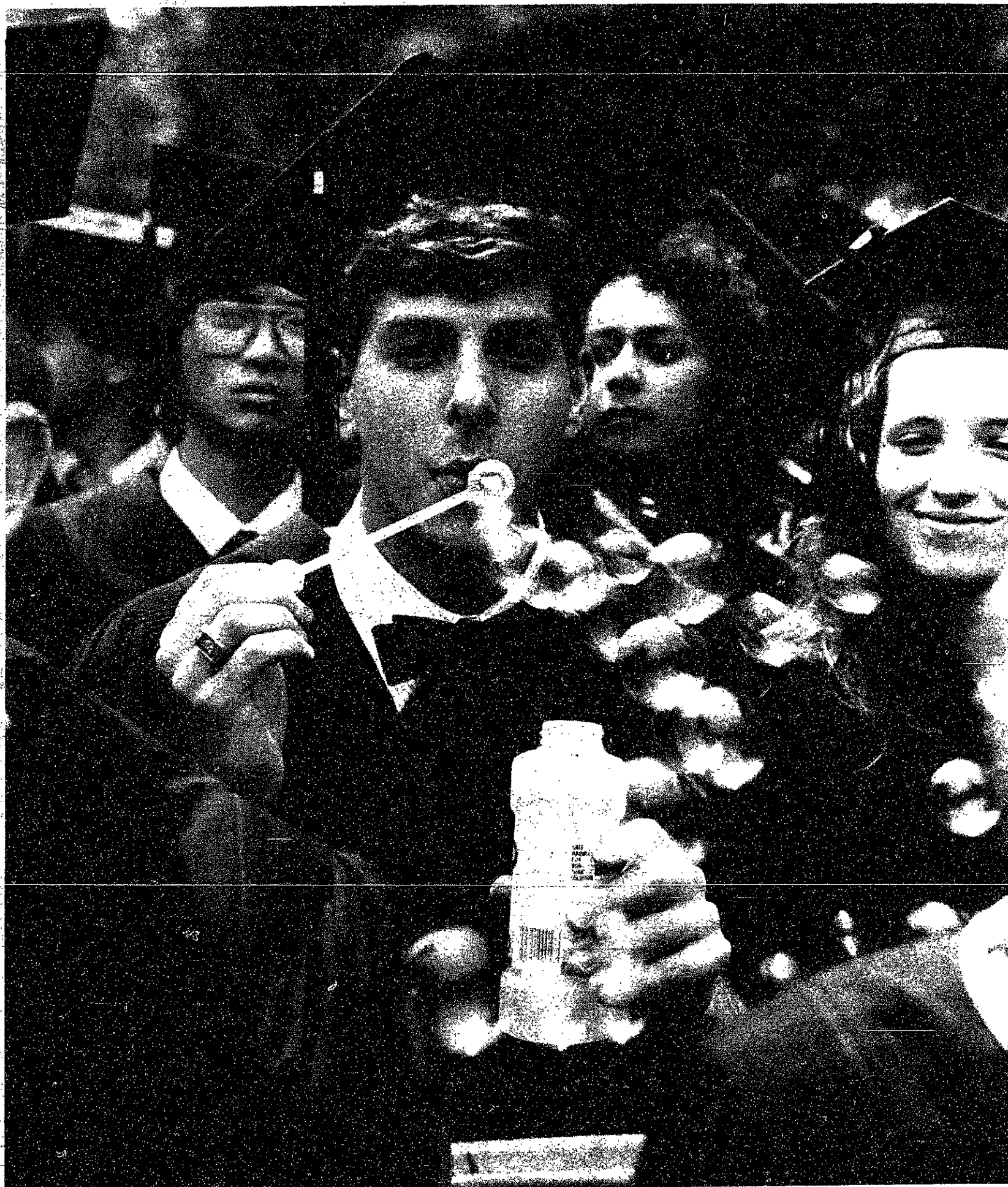
The technical quality of the photographs is for the most part superb, though the staff's selection leaves something to be desired. One receives the impression that coherence is given low, if any, priority. This problem is particularly acute in the duotones in the first few pages. While the extra color (a light purple) creates a unifying mood, the pictures stray from the traditional MIT-Cambridge-Boston shots. There are several shots at the coast, as well as one of some unidentifiable tree and one of a desert (or is it the beach?). Though all of high caliber — the tree shot is especially good — these photographs appear out of place. If there is some sort of grander theme to this section, I missed it.

The photo essay titled "Doors and Windows," with only a few exceptions, contains very interesting, highly imaginative photographs. Blatantly problematic with this section is its waste of space. Most of the pages in this essay contain one or two small photographs against an overwhelming sea of white space. This has obviously been done to create an artistic impression — sometimes of solitude, at other times of smallness — but this interest sometimes overshadows the yearbook's larger mission to convey a sense of the past year for the students who passed through MIT at the time. In addition, this 10-page essay is marred by two pages (66 and 67) that contain photos of exceptionally poor quality.

The black-and-white and color photographs at the end of the book by and large reaffirm the skill of the *Technique* photo staff. Particularly impressive among the color photos are the shots of the Boston skyline, the oblique view of Building 66, the two staircase shots, and the rather seductive shot of the "city at night," as seen from beneath the Citgo sign.

It is gratifying to note that this year's edition includes the journal, which was unfortunately omitted from the 1989 edition. The events listed present a more or less complete picture of life at the Institute and in the real world over the past year.

(Please turn to page 14)



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Capitol retrospective shows Frank Sinatra at his best

FRANK SINATRA: THE CAPITOL YEARS

Frank Sinatra.
Capitol Records.

By JEREMY HYLTON

FRANK SINATRA IS FAMOUS. Famous in a way few people are — in a category with Elizabeth Taylor or Andy Warhol, not famous necessarily for his particular talents, but famous simply because of who he is. Once Kitty Kelley has written about you in a biography, you cease to be a real person. You become what *Spy* magazine calls a "coaster," someone whose accomplishments have guaranteed him or her stardom forever.

This is certainly true of Ole' Blue Eyes. When I think of Frank Sinatra, I don't think of music. I think of that singing sword from *Who Framed Roger Rabbit*, the singing and acting, down-on-his-luck nephew of Don Vito Corleone in *The Godfather*, the actor who was almost as good as Gene Kelly in *On The Town*. Sure, he's a singer, but he is more famous as a personality; musically I have always classified him with Wayne Newton and Liberace: Avoid at all costs.

Imagine my surprise and amusement when Capitol Records sent *The Tech* a copy of Sinatra's recently released catalog of songs recorded at his peak in the 1950s, *Frank Sinatra: The Capitol Years*. Did Capitol Records really think college kids, whose tastes lean more towards REM and Fishbone, or the Trash Can Sinatras, would give Frank Sinatra a good review?

Maybe Capitol was not as wrong as I thought. After listening to a selection of 11 songs from the three-CD set, I discovered a certain appreciation for the album. Sinatra, whose voice is unquestionably beautiful, has captured the work of some of the best songwriters of the time and rendered it with genuine emotion.

The 75-song collection, released in honor of Sinatra's 75th birthday, highlights the work of the most productive phase of his career, 1953-1962. Sinatra signed on with Capitol in 1953, after his career came to a crashing halt in the late 1940s. A combination of changing musical tastes and a scandalous romance with Ava Gardner had

ended his career with Columbia Records, where he was the label's, and all of popular music's, biggest star.

The voice that emerged at Capitol was nothing if not more powerful than that of Sinatra at his height a decade before. Often working with Nat King Cole's arranger Nelson Riddle, Sinatra's singing became more deeply emotional and interpretive, comparable in style and power only to Billie Holiday.

The songs on *The Capitol Years* range from the big-band dance tunes of "Come Dance With Me" to romantic ballads with a strong blues influence, like "Learnin' the Blues."

"Learnin' the Blues" is one of the best tracks on the album. Sinatra is at his moody, brooding best as he laments the betrayal of his love:

*You'll walk the floor
And wear out your shoes.*

*When your heart breaks,
You're learning the blues.*

There are also some fun throw-aways, like Cole Porter's "I Get A Kick Out of You." The song starts with the brassy sound of the back-up band, still sounding a bit like Tommy Dorsey's big band with ridiculously muted trumpets. The song is a classic, and Sinatra sings it well, but he gets a bit carried away. He sings,

(Please turn to page 15)



Frank Sinatra, here seen in a scene from the 1957 film *The Joker is Wild*, is the subject of a recently released Capitol Records retrospective, *Frank Sinatra: The Capitol Years*. The collection, which contains 75 songs from the most productive period of Sinatra's career, 1953-1962, was released in honor of Sinatra's 75th birthday.

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ARTS

Boston Ballet transforms fairy tales into dance

TALES OF HANS CHRISTIAN ANDERSEN
The Boston Ballet
 Wang Center, May 10, 8 pm.

By EMIL M. DABORA

THE BOSTON BALLET BROUGHT their season to an exuberant close with their performance of three Hans Christian Andersen fairy tales: "The Ice Maiden," "The Steadfast Tin Soldier" and "The Wild Swans." The use of ballet lends itself extremely well to the dreamy world of fairy tales, and this performance in particular displayed how the two art forms complement each other.

"The Ice Maiden" is the story of a boy who is traveling with his mother when the Ice Maiden captures them both. She claims the boy with a spell and disposes of the mother. The boy grows to manhood

and is about to be married when the Ice Maiden returns to take him.

This was the most serious of the three stories, not so much in plot but rather in how it was presented. The characters' costumes were somber and far from elaborate. The choreography was smooth and flowing. The number of performances on stage was dynamic and ever-increasing, from mother and son, to the wedding scene, to the finale — when the Ice Maiden returns, bringing forth a clan of ice people who fill the stage in a kaleidoscopic effect. The music, written by Stravinsky in 1928, brought the piece together into a cohesive whole.

The second story, "The Steadfast Tin Soldier," is a classic tale about a tin soldier who falls in love with a paper ballerina. The jealous jack-in-the-box pushes the soldier out a window where he falls into a paper boat, floats into a sewer, and is

swallowed by a large fish. The family finds the soldier in their fish supper, and the soldier is reunited with his ballerina. A strong wind blows the dancer into the fireplace, and the soldier follows her.

Although the story is sad, it was presented in a comic light. The costumes were bright and cheery, and the dancers' motions were playful. The special effects were fantastic. They made the transition from the real world to the imaginary world of dolls and toys both smooth and fun. The giant fish was also quite a spectacle — it was 40 feet high, and its mouth opened wide enough to swallow the tin soldier (Rolland Price). The paper ballerina (Jennifer Gelfand) danced beautifully to Bizet's music.

The world premiere of "The Wild Swans" was a fresh and creative depiction of the fairy tale. The story relates the tale of an evil stepmother who banishes her

stepchildren, one daughter and eleven sons, turning the sons into swans. The sister must knit jackets out of nettles in order to transform her brothers back.

Compared with the other effects, the nettle-cloak was somewhat disappointing. It was poorly constructed and did not resemble nettles in the least.

The dancers portraying the brothers captured the motion of the flight of the swans with grace and splendor. There were times when there was no background or music, and only the pure motion of the swans filled the stage. The story had a happy ending and was a wonderful close to the program.

The evening was a tribute to one of the greatest storytellers of all time, and the Boston Ballet did Andersen justice. Through their transformation of bedtime stories into dance, the entire audience was connected and could share in the experience.

Manufacture succeeds, but only by copying pop formulas

VOICE OF WORLD CONTROL
Manufacture
 Network Records.

By RICK ROOS

BOSTON'S OWN MANUFACTURE, A band long poised for success in the alternative music market, may have found the ideal sound mix to finally gain commercial acceptance with their latest release, *Voice of World Control*.

One has to hand it to musical veterans Manufacture. They seem to have realized the easiest and most surefire method for success in the world of mainstream popular music: Find something that sells, and copy it. The band, which is now being touted as one of the brightest hopes of Network records (a label with such industrial favorites as Skinny Puppy, Consolidated, MC 900 Foot Jesus, and DJ Zero

on its roster), has put together a dazzling array of samples and near-plagiaristic melodies and riffs on *Voice of World Control*.

The album's 11 tracks feature a range of hooks which are startlingly reminiscent of recent efforts by some of alternative and industrial music's most recognizable talents. The first and most obvious example is in the track "A Measured Response." The song is laden with chanted lyrics and an all-too-familiar New Order backbeat. The same shameless copying is evident on "New Decisions," a cut which sounds like something edited out of the last Depeche Mode album. The tracks which have more of an industrial bent, such as "Mean Machine," "Drug Squad" and "Pain Amplifier," seem derivative from the clever and original work of truly cutting edge bands like Front 242, Nitzer Ebb and My Life with the Thrill Kill Kult. The result of this "borrowing" leaves the listener ambiva-













clever, but at the same time one cannot help but be annoyed with these Vanilla Ices of the alternative music world.

The few original tracks on the disc again leave the listener with mixed emotions. The combination of brash noise and synthesizers is worked to perfection in the album's lead track, "World Control," one of the most enjoyable cuts on the disc. This track succeeds where the cuts "Running Mad" and "My Destiny" fail by melding together heavy beats and sampled voices while managing to avoid either monotony or eclipsing into a sort of musical drone.

Another fine track is "Emergency Broadcast," with its angry, unintelligible lyrics and seething backbeat. It is a daring addition owing much to Consolidated's "White American Male," a song that reaches out and grabs the listener in a choke hold.

The album's one truly reprehensible and utterly forgettable cut is "Control Yourself," which comes off as a vile combination of The Pet Shop Boys, New Order and Paula Abdul. The song's lyrics are about as poignant and clever as bathroom graffiti and what little musicianship is exhibited can best be described as pathetic. (Sure enough, the track is becoming a monster crossover hit across the United States.)

Those listeners lusting for something original and new to come about in music will balk at *Voice of World Control*. However, for those of you who like the idea of a band that basically sounds like Depeche Mode with a sprinkle of Nine Inch Nails, a dash of Nitzer Ebb, and a heaping tablespoon of New Order, then Manufacture has just concocted the recipe to feed your musical tastebuds.

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Technique 1991 gives impressive review of the past year

(Continued from page 11)

One problem which begins here and which continues through the rest of the prose concerns the general lack of editing and proofreading. Grammatical errors and typos abound. The Oct. 8 journal entry, for instance, reads, "Israel kills 19 Palestinians." While it may in certain instances behoove a writer to personify a nation, it is inappropriate to describe the state of Israel as the culprit in the deaths of the 19 Palestinians on Oct. 8, 1990. And it is inexcusable to let such errors pass in a book that will be kept and referred to many times by graduating seniors.

This year's edition also includes four essays, written by members of the Class of 1991, describing "the MIT experience." Recent editions have occasionally contained such essays, but it seems most have been written by faculty. *Technique's* editors were right in giving students a greater chance to express their individuality in a forum larger than the senior quotes placed among the senior portraits. At the same time, they should have tried to make the essays representative of the MIT undergraduate community. Two of the four essays are written by creative writing majors — a department composed of fewer than 10 full majors! One of the other two "can't decide whether to major in literature or civil engineering," and the fourth is a senior who will be studying Shakespeare next year in graduate school. Furthermore, of the four, at least two are not graduating on time.

While it is necessary to include refreshing alternatives to the standard fare at the Institute, this group ends up giving the erroneous impression that MIT is filled with disaffected poets and authors. Some of us can be happy without majoring in English.

Here again, proofreading was unfortunately sacrificed. The essay by Deborah A. Levinson '91, for instance, contains at least three obvious typos. Take, for instance, the second sentence, which begins: "The author, a freshman planning on majoring in creative writing major. . ."

Even if this mistake had appeared in Levinson's original draft, the editors should have easily been able to find it.

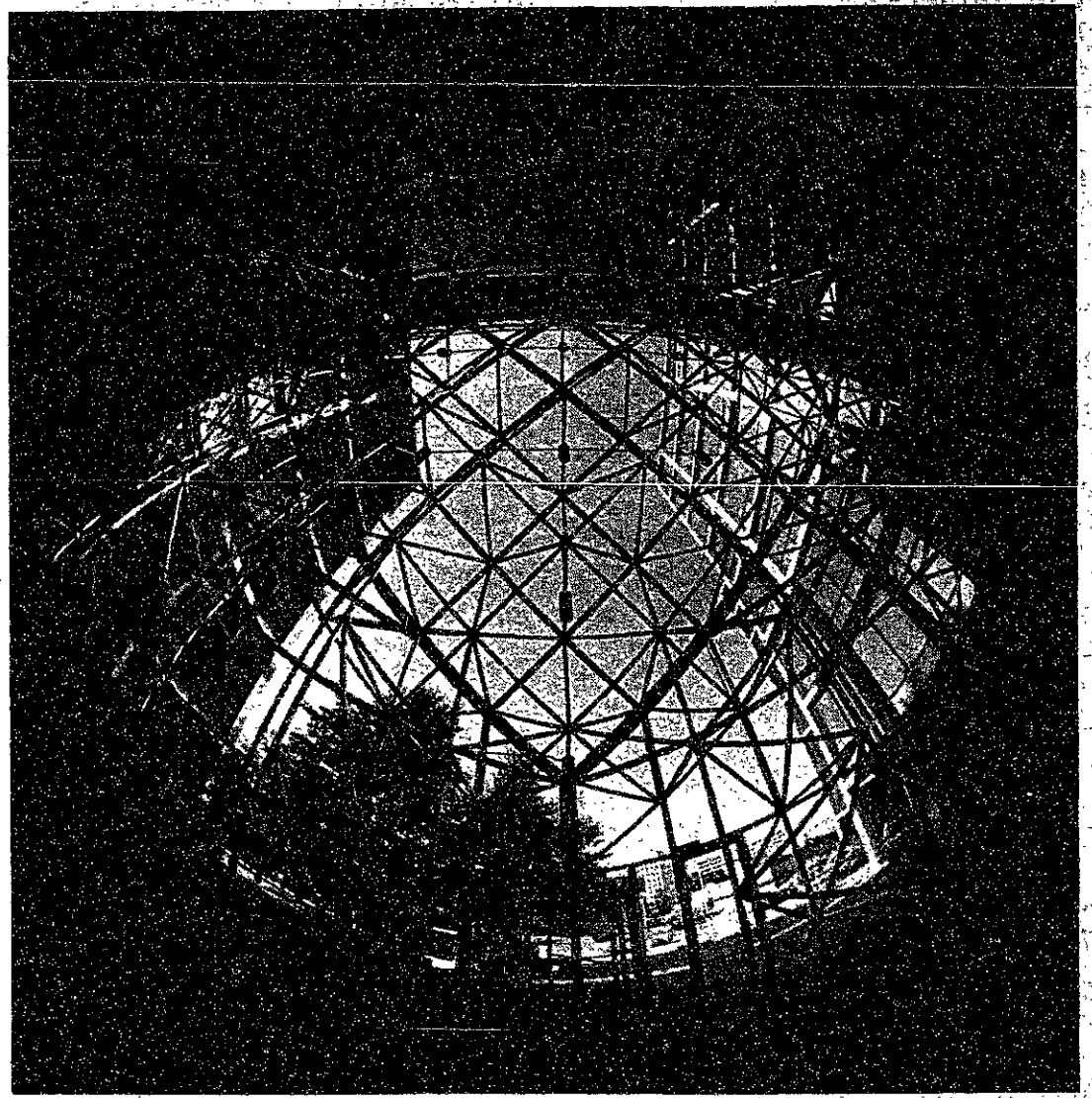
Team rosters are left out of the "Sports and Activities" section. Instead, photos surrounded by large fields of white were selected to represent the wide array of athletic teams fielded at MIT. I miss the rosters. They are desirable, if only to acknowledge the surprising amount of participation in varsity and club athletics at a school that does not recruit players for a single team.

Living-group photos are done well, and identification of individuals is once again facilitated with a numbered outline of each photograph. In addition to the obligatory naked frat shots, notables on these pages include Tau Epsilon Pi's "last supper" and the three group shots — of Alpha Tau Omega, McCormick Third East and New House Four — taken at nighttime from roofs.

The senior portraits seem fine, though given the vast fields of white space on each page, it seems as if they could have been larger. Also, some of the other, random photographs on these pages appear out of place and at times distasteful. The mean-spirited woman on page 224 and the protester on page 285 are but two examples of poorly selected photos in this section.

Finally, our new president, Charles M. Vest, is only mentioned in the journal. It would have been nice for the *Technique* staff to have devoted a couple of pages to President Vest. These pages could have looked like last year's tribute to then outgoing President Paul E. Gray '54. That tribute contained some original photographs and a short essay written by Gray.

These particular criticisms are on the whole meant to be constructive. The basics of *Technique* have, for years (1989 excluded), been sound. What is offered is humble advice for change. The hope is that future classes may extract even greater pleasure from their yearbooks than this graduating class will most certainly take from *Technique 1991*.



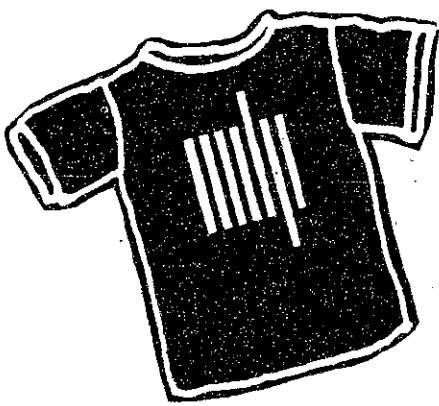
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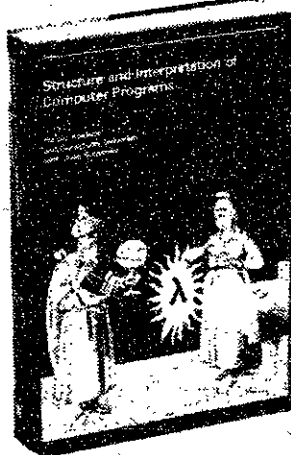
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ARTS

Political issues, folk consciousness mix in the Samples

THE SAMPLES

The Samples
Arista Records

By SANDE CHEN

THE SAMPLES, A FOLKSY TRIBE from Boulder, CO, mix mandolins with reggae and embed their music with a political consciousness about preserving the environment.

The issues on their self-titled debut album are surprisingly expansive. They run the gamut from war protest to the preservation of our oceans and endangered species to the oppression of workers, but the main focus is on the environment. One song, "Close to the Fires," dedicated to "the great spirit of the American Indian," discusses pollution, nuclear testing, oil spills, dolphins trapped in tuna nets, hospital waste on beaches, the logging industry and the fur industry. "Glamorous furs," notes singer/songwriter Sean Kelly, "Can you believe what they once were?"

Their message is simple, never preachy. Kelly sings, "The blue skies are turning brown... the oceans are turning black," in "Close to the Fires." It's a succinct, di-

rect statement. Even the more idealistic "I hope to find peace" on the song "African Ivory" is clear and to the point.

Kelly's voice is honest and uplifting, especially on songs like "Birth of Words" or "Ocean of War." While Kelly concedes that The Police were a great influence upon him musically and that the Samples are often likened to The Police, the Samples do not sound like The Police. The mandolin and banjo playing yield more of a folk rock feel, and the flute or recorder sounds which filter in so exquisitely in "African Ivory" and "Close to the Fires" are certainly foreign to Police albums. Perhaps the comparison is in spirit.

If the political correctness of the group gets you down; the real gems on this album have nothing to do with the environment. The aching "Waited Up" and "Birth of Words" are about the demise of treasured relationships. "[I've been] waking up day to day to find that I've given up on you and you've given up on me and we've given up on we," says Kelly on the lovely "Birth of Words", at last finishing, "so watch all this love turn to lies." In contrast, "Could It Be Another Change" doc-

uments the beginning of what might be. "The only time I feel good falling is when I'm falling fast and hard for you / The last two digits when I'm calling fade away but somehow I get through."

Already, the Samples have recorded

enough material for a second album. They figure the new album will focus on racial tensions, the decline of cities, and feelings of alienation in our society. With luck, their follow-up will be every bit as satisfying as their debut.

Capitol releases retrospective of Frank Sinatra's rich catalog

(Continued from page 12)

*I get no kick from cocaine.
I'm sure if I took just one sniff
It would bore me terrifically
But I get a kick out of you.*

Sinatra holds on to the 'f' in "terrifically" forever. The effect forces the rhyme with "sniff," but sounds silly — not bad, just silly.

When hearing songs like "In the Wee Small Hours of the Morning," it comes to mind that the song, the title track from a mid-1950s album, went to the top of the charts. It is nothing like today's chart-

topping songs, whose lyrics run more along the lines of this Paula Abdul classic: "It's the way that you love me. / It's the way that you love me. / It's the way that you love me..." ad nauseum.

The most appropriate cut to include on the album is probably "Nice 'n' Easy." This is emotional, but old and easy, pop music — a little sassy, too. Relax and listen to the velvety, sonorous voice of one of Hollywood's best singers. It is a far cry from the hard-edged, industrial sound of Nine Inch Nails, but the change is surely worth it.



Ongoing Theater

Another Saturday Night, Sheldon Goldberg, Victoria Howard, & Reginald Wright's musical about pop and R & B hits of the '70s & '80s, continues through June 29 at Club Nicole, Back Bay Hilton, 40 Dalton Street, Boston. Performances are Thursday at 8 pm, Friday at 8 pm & 10 pm, and Saturday at 8 pm. Tickets: \$20. Telephone: 728-1448.

Bent, Martin Sherman's critically acclaimed drama about homosexuality and the Holocaust, continues through June 22 as a presentation of the Triangle Theater Company at the Paramount Theatre, 58 Berkeley Street, Boston. Performances are Wednesday-Saturday at 8 pm. Tickets: \$15. Telephone: 426-3550.

From This Moment On, a 100th birthday celebration of Cole Porter, continues through June 29 at the Boston Baked

Theatre, 255 Elm Street, Davis Square, Somerville, just by the Davis Square T-stop on the red line. Performances are Friday & Saturday at 8:15, June 9 at 7:15, and June 16 at 3:15. Tickets: \$14.50 and \$16. Telephone: 628-9575.

The Investigation of a Murder in El Salvador, in which six members of the privileged class confront an inconvenient murder on a sunny afternoon in 1982, continues through June 15 as a presentation of Cicatrix Theater at the Charlestown Working Theater, 442 Bunker Hill Street, Charlestown, near the Sullivan T-stop on the orange line. Performances are Wednesday-Saturday at 8 pm. Tickets: \$10. Telephone: 282-7998.

Night, Mother, Marsha Norman's hard-hitting play about a woman who has decided to commit suicide but must also confront her mother, continues through June 29 at the Back Alley Theater, 1253 Cambridge Street, Inman Square, Cambridge. Performances are Thursday-Sun-

day at 8 pm. Tickets: \$15. Telephone: 576-1253.

CRITICS' CHOICE King Lear, by William Shakespeare, continues through July 13 at the American Repertory Theatre, Loeb Drama Center, 64 Brattle Street, Harvard Square, Cambridge. Performances are Tuesday-Sunday at 8 pm and matinees Saturday & Sunday at 2 pm. Tickets: \$17 to \$35. Telephone: 547-8300.

Power Failure, Larry Gelbart's black comedy, continues through July 10 as a presentation of the American Repertory Theatre at the Loeb Drama Center, 64 Brattle Street, Harvard Square, Cambridge. Performances are Tuesday-Sunday at 8 pm and matinees Saturday & Sunday at 2 pm. Tickets: \$17 to \$35. Telephone: 547-8300.

Romeo and Juliet, by William Shakespeare, continues through June 23 at the Publick Theatre, Inc., Christian A. Her-

ter Park, Soldiers Field Road, Boston, near Harvard Square. Performances are Wednesday-Sunday at 8 pm. Tickets: \$11, \$13, and \$15 general, \$2 discount to seniors and children. Tel: 782-5425.

CRITICS' CHOICE Travesties, Tom Stoppard's Tony Award-winning farce about fabricated encounters between James Joyce, Tristan Tzara (a founder of the Dada movement), and Lenin, continues through June 16 as a presentation of the Huntington Theatre Company at the Boston University Theater, 264 Huntington Avenue, Boston. Performances are Tuesday-Saturday at 8 pm with matinees Wednesday, Saturday, and Sunday at 2 pm. Tickets: \$18 to \$32 general, half-price rush tickets two hours before performance, \$7.50 student rush tickets. Tel: 266-0800.

Talk Radio, Eric Bogosian's social satire about a night show host who plays on the fears and insecurities of his listeners,

continues through June 9 at the New Ehrlich Theatre, 539 Tremont Street, Boston. Performances are Thursday & Friday at 8:00, Saturday at 5:00 & 8:30, and Sunday at 2:00. Tickets: \$15. Telephone: 482-6316.

Ongoing Exhibits

ON CAMPUS

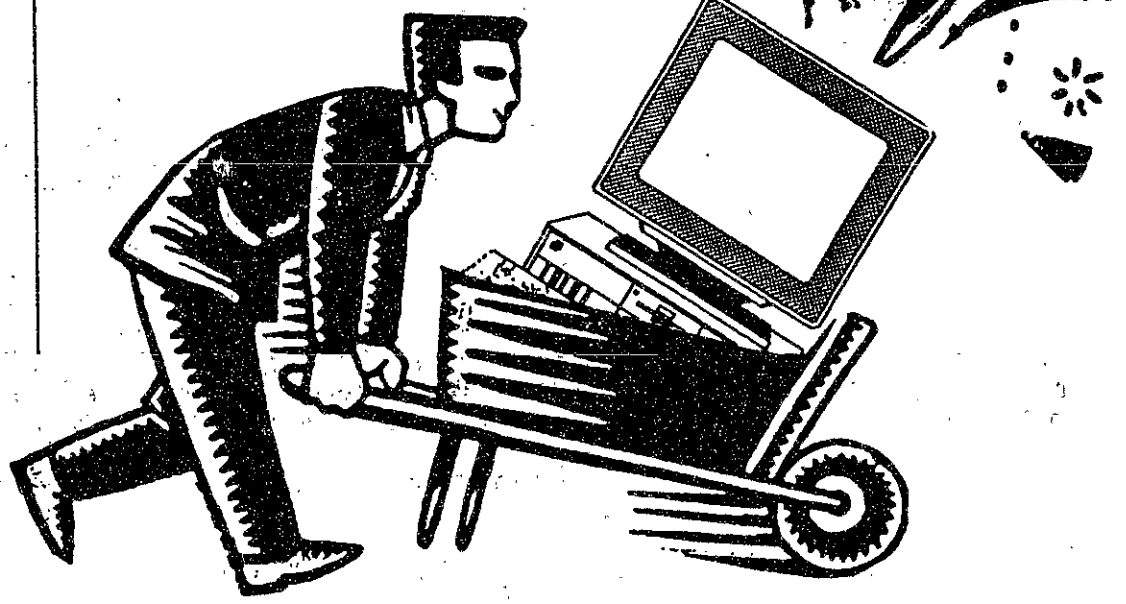
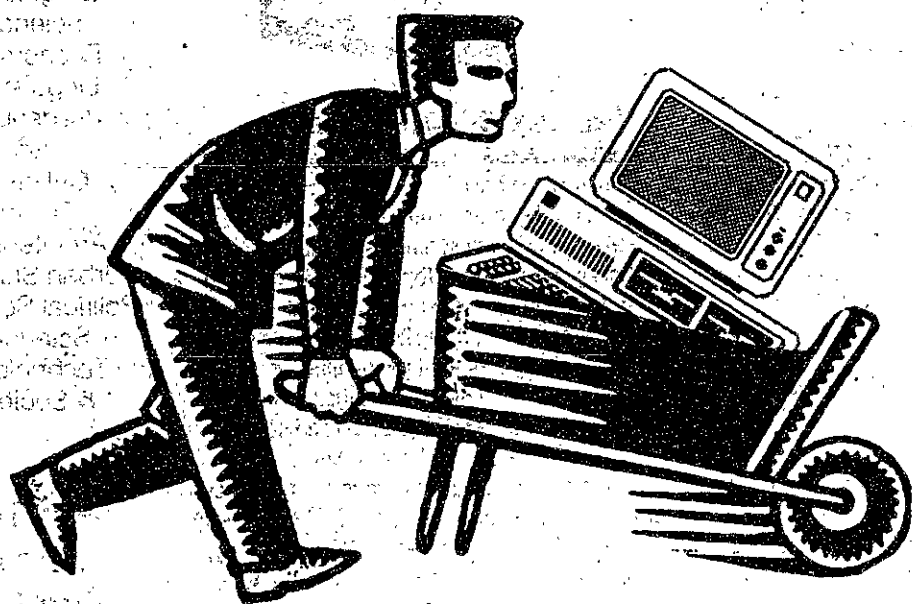
Mark Tansey: Art & Source, four major paintings and more than 50 works on paper by the New York representational artist; **Tourisms: suitcase Studies**, an installation by the collaborative team of Elizabeth Diller & Ricardo Scofidio exploring issues related to travel and tourism; and **Warren Neddich: Historical Intervention**, examining the contradiction of the American past and the ways in which the media distorts our perception of the present, all continue through June 30 at the List Visual Arts Center, MIT Wiesner Building E15. Gallery hours are weekdays 12-6 and weekends 1-5. No admission charge. Telephone: 253-4680.

Affix! Affixes! Plakate! Posters! Swiss Poster Art 1906-1990, 90 posters for consumer products, tourism, arts exhibitions, and public service by Swiss designers, continues through June 13; **Watercolors by Freddy Homburger**, landscapes — primarily of Mexico and Maine — by the physician/scientist/diplomat/artist, continues through September 12; and **Doc Edgerton: Stopping Time**, photographs and memorabilia documenting the invention and use of the strobe light, continues indefinitely at the MIT Museum, 265 Massachusetts Avenue, Cambridge. Museum hours are Tuesday-Friday 9-5 and Saturday-Sunday 1-5. Admission: \$2 requested donation, free to MIT community. Telephone: 253-4444.

CRITICS' CHOICE Crazy After Calculus: Humor at MIT, documenting the rich history of MIT wit and wizardry shown through hacks, continues through September 13 in the MIT Compton Gallery, between lobbies 10 and 13. No admission charge. Telephone: 253-4444.

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Now you can turn your outdated PC into a genuine IBM PS/2! And save bucks at the same time - through our new PC Trade-Up program! The MIT Microcomputer Center, IBM, and Rentex have made it easier than ever! Bring us your old PC and we'll give you credit towards a new one.

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TABU (1991)

Tuesday, June 4

CONTEMPORARY MUSIC

Boston Pops Orchestra performs at 8:00 in Symphony Hall, corner of Huntington and Massachusetts Avenues, Boston. Boston Pops concert continues through July 14, Tuesday-Saturday at 8:00 and Sunday at 7:30 — conductors: Harry Ellis Dickson on June 4 & 8, John Williams on June 5 & 6, Ronald Feldman on June 7, and Max Hobart on June 9. Tickets: \$10 to \$34.50. Tel: 266-1492.

Szyzy, Smash, Steel Blue, Furor, and Shanty Tramp perform at 9 pm in an 18+ ages show at the Channel, 25 Necco Street, near South Station in downtown Boston. Tickets: \$5. Telephone: 451-1050.

Mark Germino and The Sluggers performs at 9 pm at Nightstage, 823 Main Street, Cambridge, just north of MIT. Telephone: 497-8200.

Flat Stanley, Bob House, and Cartunes perform at The Edge, One Necco Place, near South Station in downtown Boston. Tickets: \$5. Telephone: 426-7744.

Paul Geremia and Dave Moore perform at Johnny D's, 17 Holland Street, Davis Square, Somerville, near the Davis Square T-stop on the red line. Telephone: 776-9667.

Gangstar Posse, NFX, Who Be Dat, and Clang perform at Bunnatty's, 186 Harvard Avenue, Allston. Tel: 254-9820.

JAZZ MUSIC

Mill Bermejo: Quartet Nuevo performs at 9 pm at the Regattabar, Charles Hotel, Harvard Square, Cambridge. Tickets: \$6. Telephone: 661-5000.

Debbie Cochman performs at the Western Front, 343 Western Avenue, Cambridge. Telephone: 492-7772.

Norman Zocher Quartet performs at the Willow Jazz Club, 699 Broadway, Ball Square, Somerville. Telephone: 623-9874.

THEATER

The Island of Anyplace, taking off from *The Tempest* and introducing kids to the magic of the stage, is presented at 10:30 am at the American Repertory Theatre, Loeb Drama Center, 64 Brattle Street, Cambridge. Also presented June 4 and 7. Tickets: \$16 adults, \$8 children. Telephone: 516-8300.

FILM & VIDEO

The Coolidge Corner Theatre presents *Eating* (1991, Henry Jaglom) at 5:30, 7:40, & 9:55; *Tabu* (1991, F. W. Murnau) at 6:40 & 8:20; and *The Vanishing* (1990, George Sluizer) at 4:40 & 10:00 at 290 Harvard Street, Brookline, at the Coolidge Corner T-stop on the 'C' green line. Films continues through June 6. Telephone: 734-2500.

CRITICS' CHOICE

The Somerville Theatre presents *Hamlet* (1990, Franco Zeffirelli) at 4:50 & 9:50 and *Cyrano de Bergerac* (1990, Jean-Paul Rappeneau) at 7:15 at 55 Davis Square, Somerville, just by the Davis Square T-stop on the red line. *Cyrano* also presented June 4, 5, and 6. Telephone: 625-5700.

The Brattle Theatre continues its Monday series *In Court with Judgement* at Nuremberg (1961, Stanley Kramer) at 7:00 and *Inherit the Wind* (1960, Stanley Kramer) at 4:30 & 10:00 at 40 Brattle Street, Harvard Square, Cambridge. Tickets: \$5.50 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

The Institute of Contemporary Art continues its series *Five Lost French Films* with Alain Resnais' *Stavisky* (1974) at 9:30 at the ICA Theater, 955 Boylston Street, Boston. Also presented June 4. Tickets: \$5 general, \$4 ICA members, students. Telephone: 266-5152.

Monday, June 3

CONTEMPORARY MUSIC

Stone Soup Poetry, Atwater & Donnelly, and Sea Shanty & Folk Duo perform in an 18+ ages show at T.T. the Bears, 10 Brookline Street, Cambridge, just north of MIT. Telephone: 492-0082.

Whirlwind and The Igniters perform at Bunnatty's, 186 Harvard Avenue, Allston. Telephone: 254-9820.

JAZZ MUSIC

Matt Hong Quintet performs at the Willow Jazz Club, 699 Broadway, Ball Square, Somerville. Telephone: 623-9874.

CLASSICAL MUSIC

CRITICS' CHOICE

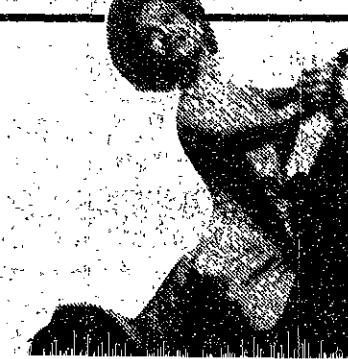
Banchetto Musicale performs Mozart's *The Marriage of Figaro* as part of the *Boston Early Music Festival & Exhibition* at 8 pm in Jordan Hall, New England Conservatory, 30 Gainsborough Street at Huntington Avenue, Boston. Tickets: \$15, \$21, and \$26. Telephone: 864-5988.

Laments on the Death of a Son, works by d'India, Castello, Monteverdi, Biber, and Frescobaldi, is presented at 4 pm in Lindsay Chapel, First Church Congregational, 11 Garden Street, Cambridge. Tickets: \$5. Telephone: 661-0570.

Artek performs baroque instrumental music from Spain, Italy, and Germany at 11 pm in First and Second Church, 66 Marlborough Street, Boston. Tickets: \$5. Telephone: 212-873-0473.

DANCE

The Cambridge Court Dancers perform *Dance & Music from the Time of Shakespeare* at 8 pm in Old South Church, 645 Boylston Street, Boston. Tickets: \$12. Telephone: 628-6902.



3-16

THEATER

The Island of Anyplace at the American Repertory Theatre, Loeb Drama Center. See June 3 listing.

FILM & VIDEO

Blue Planet, a panoramic view of our home planet from a vantage point 200 miles above Earth; and *To the Limit*, the story of three world-class athletes in their quest for the ultimate performance, continue indefinitely at the Museum of Science, Science Park, Boston at the Science Park station on the Green line. *Blue Planet* screenings are Tuesday-Sunday at 11, 1, 2, 3, 4, 7, & 8; Friday also at 9; Saturday also at 10, 12, 5, 6, & 9; Sunday also at 12, 5, & 6. Tickets: \$6 general, \$4.50 seniors and children. Telephone: 523-6664.

The Brattle Theatre continues its Tuesday series of films of *Andy Warhol* with *Chelsea Girls* (1966) at 8 pm at 40 Brattle Street, Harvard Square, Cambridge. Tickets: \$5.50 general, \$3 seniors and children. Telephone: 876-6837.

The Somerville Theatre presents *Leningrad Cowboys Go America* (1991, Aki Kaurismäki) at 5:30 & 9:40 and *Cyrano de Bergerac* (1990, Jean-Paul Rappeneau) at 7:15 at 55 Davis Square, Somerville, just by the Davis Square T-stop on the red line. Also presented June 5 and 6. Telephone: 625-5700.

Eating (1991, Henry Jaglom), *Tabu* (1931, F. W. Murnau), and *The Vanishing* (1990, George Sluizer) at the Coolidge Corner Theatre. See June 3 listing.

Stavisky (1974, Alain Resnais) at the Institute of Contemporary Art Theater. See June 3 listing.

EXHIBITS

Abstractions from Still Life, paintings by David Rollow, opens today at the French Library in Boston, 53 Marlborough Street, Boston. Continues through July 26 with library hours Tuesday-Saturday 10-5 and Wednesday & Thursday 10-8. No admission charge. Tel: 266-4351.

CLASSICAL MUSIC

Fretwork, with guest luteist Paul O'Dette, performs works by Pavaunes and William Byrd as part of the *Boston Early Music Festival & Exhibition* at 5 pm in the Tsai Performance Center, 685 Commonwealth Avenue, Boston. Tickets: \$16. Telephone: 661-1812.

The Boston Early Music Festival Orchestra and The Early Dance Project present *1791 Haydn in London/Mozart in Vienna* as part of the *Boston Early Music Festival & Exhibition* at 8 pm in Converse Hall, Tremont Temple Baptist Church, 88 Tremont Street, Boston. Tickets: \$28, \$33, and \$38. Telephone: 661-1812.

Takt performs vocal and instrumental chamber works by Montecclair, Schuermann, and Bach at 12 noon in Lindsey Chapel; *Italian Icing: Italian Cantata and Obbligato Continuo*, works by Marcello, D. Scarlatti, and Gemiliani, is presented at 3 pm in the Emmanuel Church Library; *Convivium Musicum* performs works by Monteverdi, Marenzio, Palestrina, Wert, and others at 5:45 in Lindsey Chapel, Emmanuel Church, 15 Newbury Street, Boston. Tickets: \$9 general, \$6 seniors and students for Takt; \$6 for *Italian Icing*; \$5/\$3 for *Convivium Musicum*. Tel: 489-3126 (Takt), 489-3906 (*Italian Icing*), 566-1888 (*Convivium Musicum*).

Duo Marestone performs English lute music by Hume, Dowland, Jenkins, Ferrabasso, Simpson, and others at 3 pm at the Church of St. John the Evangelist, 35 Bowdoin Street, Boston. Tickets: \$8 general, \$5 seniors and students. Telephone: 776-8688.

The Handel & Haydn Society performs instrumental chamber music of Mozart & Haydn as part of the *Boston Early Music Festival* at 12 noon in the Wang Center Grand Lobby, 270 Tremont Street, Boston. Tickets: \$15. Telephone: 482-9393.

Wednesday, June 5

JAZZ MUSIC

CRITICS' CHOICE
Pianist Don Pullen performs at 9 pm at Nightstage, 823 Main Street, Cambridge, just north of MIT. Telephone: 497-8200.

Alfonso Vilallonga: The Cabaret Rose performs at 9 pm at the Regattabar, Charles Hotel, Harvard Square, Cambridge. Tickets: \$8. Telephone: 661-5000.

EXHIBITS

Attention to Detail, images from Yosemite and portraits by Wesley H. Huang '91, opens today in the Wiesner Gallery, MIT Student Center. Continues through June 15. No admission charge.

Pleasures of Paris from Daumier to Picasso, focusing on amusements that were part of Parisian life during the last quarter of the 19th century, as seen in paintings, prints, drawings, photographs, and posters, opens today in the Gund Gallery, Museum of Fine Arts, 465 Huntington Avenue, Boston. Continues through September 1 with museum hours Tuesday-Sunday 10-5 and Wednesday 10-10. Admission: \$6 general, \$5 seniors and students, free with MIT ID. Telephone: 267-9300.

CLASSICAL MUSIC

The Handel & Haydn Society performs instrumental chamber music of Mozart & Haydn as part of the *Boston Early Music Festival* at 12 noon in the Wang Center Grand Lobby, 270 Tremont Street, Boston. Tickets: \$15. Telephone: 482-9393.

Thursday, June 6

FILM & VIDEO

CRITICS' CHOICE
The Brattle Theatre continues its Thursday series *French Waves* with *The Nun* (1966, Jacques Rivette) at 3:15 & 7:35 and *Alphaville* (1965, Jean-Luc Godard) at 5:45 & 10:00 at 40 Brattle Street, Harvard Square, Cambridge. Tickets: \$5.50 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

Leningrad Cowboys Go America (1991, Aki Kaurismäki) and *Cyrano de Bergerac* (1990, Jean-Paul Rappeneau) at the Somerville Theatre. See June 4 listing.

Eating (1991, Henry Jaglom), *Tabu* (1931, F. W. Murnau), and *The Vanishing* (1990, George Sluizer) at the Coolidge Corner Theatre. See June 3 listing.

Volpone (1939, Maurice Tourner) at the Institute of Contemporary Art Theater. See June 5 listing.

CLASSICAL MUSIC

The Handel & Haydn Society performs works by Mozart and Beethoven as part of the *Boston Early Music Festival* at 12 noon in the Wang Center Grand Lobby, 270 Tremont Street, Boston. Tickets: \$15. Telephone: 482-9393.

Soviet violinist Tatyana Grindenko performs as part of the *Boston Early Music Festival & Exhibition* at 5 pm in the Tsai Performance Center, 685 Commonwealth Avenue, Boston. Tickets: \$16. Telephone: 661-1812.

The Inhabited Palace — Roman music, under the Barberini including works by Luigi Rossi, Domenico Mazzochi, and Giacomo Carissimi — is performed by The Musicians of Swanne Valley and Fretwork as part of the *Boston Early Music Festival & Exhibition* at 8:30 in Jordan Hall, New England Conservatory, 30 Gainsborough Street at Huntington Avenue, Boston. Tickets: \$15, \$20, and \$25. Telephone: 661-1812.

Fomerium Musices performs works by Pierre de la Rue, Josquin Desprez, Alexander Agricola, and Gilles Binchois as part of the *Boston Early Music Festival & Exhibition* at 11 pm in Emmanuel

Oriana performs French & German music from gamba trio & continuo at 12 noon; harpsichord duo Jill Stoppels Dupre & Elaine Thornburgh perform 18th century music at 3 pm at the Boston Center for Adult Education, 5 Commonwealth Avenue, Boston. Tickets: \$4 general, \$3 seniors & students for Oriana; \$5 for Dupre & Thornburgh. Telephone: 323-2171 (Oriana), 576-1522 (Dupre & Thornburgh).

Ft. Worth Early Music/Brazos Baroque performs vocal and instrumental works by Purcell, Buxtehude, and Telemann at 2 pm at the Church of St. John the Evangelist, 35 Bowdoin Street, Boston. Tickets: \$5. Telephone: 661-1593.

Old Post Road Historic Concerts presents works by Bach at 6 pm in the Old South Meeting House, 310 Washington Street, Boston. Tickets: \$10 general, \$6 seniors and students. Tel: 648-4824.

Kreutzer Duo performs works by Mozart and Beethoven at 7 pm at the College Club, 44 Commonwealth Avenue, Boston. Tickets: \$5 general, \$3 seniors and students. Telephone: 919-493-4706.

Pianist Anna Soukiasian-Cassino, clarinetist Nancy Fiske, and violinist Rinoko Takehashi perform works by Bach, Chopin, and Khachatryan at 12:30 in the Federal Reserve Bank of Boston's auditorium, 600 Atlantic Avenue, Boston, across from South Station. No admission charge. Telephone: 973-3453.

THEATER

The Seagull, Chekov's classic comedy about a group of artists and intellectuals assembled on a provincial Russian estate, opens today as a presentation of New Boston Theatre at The Performance Place, 277 Broadway, Somerville, near the Sullivan T-stop on the orange line. Continues through June 22 with performances Thursday-Saturday at 8 pm. Tickets: \$12. Telephone: 625-1300.

JAZZ MUSIC

Rebecca Farris performs at 9 pm at the Regattabar, Charles Hotel, Harvard Square, Cambridge. Also presented June 7 at 8 pm & 10 pm and June 8 at 9 pm & 11 pm. Tickets: \$7 to \$10. Telephone: 661-5000.

Melissa Kassel performs at the Willow

The Moscow Academy of Ancient Music performs works by Telemann and J. S. Bach as part of the *Boston Early Music Festival & Exhibition* at 5 pm in the Tsai Performance Center, 685 Commonwealth Avenue, Boston. Tickets: \$16. Telephone: 661-1812.

The Tallis Scholars perform works by John Taverner and William Cornyshe as part of the *Boston Early Music Festival & Exhibition* at 8:30 in St. Paul's Roman Catholic Church, Cambridge. Tickets: \$15, \$20, and \$25. Telephone: 661-1812.

The King's Noyse performs *The King's Delight*, a portrayal of the early violin as dance band instrument and its rise to artistic eminence in the 17th century, as part of the *Boston Early Music Festival & Exhibition* at 11 pm in the Church of St. John the Evangelist, 35 Bowdoin Street, Beacon Hill, Boston. Tickets: \$15. Telephone: 661-1812.

Harpsichord duo Michael Bahmann and Vivian Montgomery perform works by Philip Tyre at 1 pm; Lyric Charms, 16th & 17th century music, is presented at 4 pm at the Boston Center for Adult Education, 5 Commonwealth Avenue, Boston. Tickets: \$7 general, \$5 seniors and students for Bahmann & Montgomery; \$5/\$3 for Lyric Charms. Telephone: 313-930-0610 (Bahmann & Montgomery), 267-2465 (Lyric Charms).

Baroque Winds perform works by Philidor, Handel, Frescobaldi, Telemann, and Purcell at 3:00; La Fenice performs a capella vocal works by de Monte, Victoria, Lobo, and Gesualdo at 5:30 in Lindsey

Chapel, Emmanuel Church, 15 Newbury Street, Boston. Tickets: \$5 for Baroque Winds; \$6 general, \$4 seniors & students for La Fenice. Telephone: 508-263-4839 (Baroque Winds), 437-9753 (La Fenice).

The Newberry Consort presents *Il Solazzo: Music of Early Italian Renaissance* at 3 pm at the Church of St. John the Evangelist, 35 Bowdoin Street, Boston. Tickets: \$8. Telephone: 742-4185.

D.C. Hall's New Consort and Quadrille Band performs works by Balfe, Haydn, Mozart, Reissiger, and others at 8 pm in the Old South Meeting House, 310 Washington Street, Boston. Tickets: \$10. Telephone: 776-6512.

FILM & VIDEO

The Brattle Theatre continues its Wednesday series *Leone, Peckinpah (... and Altman)* with *The Wild Bunch* (1969, Sam Peckinpah) at 2:30 & 7:15 and *Bring Me the Head of Alfredo Garcia* (1974, Peckinpah) at 5:05 & 9:50 at 40 Brattle Street, Harvard Square, Cambridge. Tickets: \$5.50 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

The Institute of Contemporary Art continues its series *Five Lost French Films* with Maurice Tourner's *Volpone* (1939) at 9:30 at the ICA Theater, 955 Boylston Street, Boston. Also presented June 6. Tickets: \$5 general, \$4 ICA members, seniors, and students. Telephone: 266-5152.

Leningrad Cowboys Go America (1991, Aki Kaurismäki) and *Cyrano de Bergerac* (1990, Jean-Paul Rappeneau) at the Somerville Theatre. See June 4 listing.

Eating (1991, Henry Jaglom), *Tabu* (1931, F. W. Murnau), and *The Vanishing* (1990, George Sluizer) at the Coolidge Corner Theatre. See June 3 listing.

CONTEMPORARY MUSIC!
Mass, Tin Pan Alley, Boas, Snidely Whiplash, and Jealous Dogs perform at 9 pm in a 19+ ages show at Axis, 13 Lansdowne Street, Boston, near Kenmore Square. Telephone: 262-2437.

Laurie Sargent, Subterraneans, and Sara Laughs perform in a 19+ ages show at the Paradise, 967 Commonwealth Avenue, Boston. Tickets: \$3.50. Telephone: 254-2052.

Fez Henry, Friday's Child, Taslan, 11 am, and Crabbendam perform at 9 pm at the Channel, 25 Necco Street, near South Station in downtown Boston. Tickets: \$5. Telephone: 451-1050.

Ragamuffin Soldiers performs at the Western Front, 343 Western Avenue, Cambridge. Telephone: 492-7772.

Napaj and Ugly Rumors perform at The Edge, One Necco Place, near South Station in downtown Boston. Tickets: \$5. Telephone: 426-7744.

Batwel Rada Markoh performs at Johnny D's, 17 Holland Street, Davis Square, Somerville, near the Davis Square T-stop on the red line. Telephone: 776-9667.

Charlie's Girlfriend and Fortunato Sun perform at Bunnatty's, 186 Harvard Avenue, Allston. Telephone: 254-9820.



MOJO, June 7

MARSALIS, June 20



CONTEMPORARY MUSIC

Kitchens of Distinction, Hypno Love Wheel, Bralandace, and Sleepy Head perform at 9 pm in a 19+ ages show at Axis, 13 Lansdowne Street, Boston, near Kenmore Square. Telephone: 262-2437.

Tower of Power and Downtime perform at 7:30 & 10:30 at the Paradise, 967 Commonwealth Avenue, Boston. Tickets: \$11 advance/\$12 day of show. Telephone: 254-2052.

Crazy Train, Mace, Valkyrie, and Zanehead perform at 9 pm at the Channel, 25 Necco Street, near South Station in downtown Boston. Tickets: \$5. Telephone: 451-1050.

Seven League Boots, Ninja Custodian, and Crab Daddy perform in an 18+ ages show at T.T. the Bears, 10 Brookline Street, Cambridge, just north of MIT. Telephone: 492-0082.

Third Eye performs at the Western Front, 343 Western Avenue, Cambridge. Also presented June 7 and 8. Telephone: 492-7772.

Violette Hour, Purple Jesus, The Tats, and The Returnables perform at the Rat, 528 Commonwealth Avenue, Kenmore Square, Boston. Telephone: 536-2750.

Atomic Cafe and Exhibit A perform at The Edge, One Necco Place, near South Station in downtown Boston. Tickets: \$5. Telephone: 426-7744.

Rebirth Brass Band and Wild Magnolias perform at Johnny D's, 17 Holland Street, Davis Square, Somerville, near the Davis Square T-stop on the red line. Telephone: 776-9667.

Common Ailments of Maturity, Nisi Period, and Ring perform at Bunnatty's, 186 Harvard Avenue, Allston. Telephone: 254-9820.

Two for the Show — Jake Kensinger and Ellen Schmidt performing tunes from the '30s, '40s, and '50s — is presented at the Cambridge Center for Adult Education, 56 Brattle Street, Cambridge. Tickets: \$3.50. Tel: 547-6789.

DANCE

Ken Pierce Baroque Dance Company performs dance of the early 18th century at 11 pm at the Boston Center for Adult Education, 5 Commonwealth Avenue, Boston. Tickets: \$6 general, \$5 seniors

BALLROOM,

June 1

Saturday, June 8

CONTEMPORARY MUSIC
Farrenhelt, The Tears, Sly Boys, Grambo, and Inside Out perform at 9 pm at the Channel, 25 Necco Street, near South Station in downtown Boston. Tickets: \$6.50. Telephone: 451-1050.

Virginia and the Wolf performs at 7:30 at Nightstage, 823 Main Street, Cambridge, just north of MIT. Tickets: \$3. Telephone: 497-8200.

The 360's, Drumming on Glass, and Dreams Made Flesh perform in an 18+ ages show at T.T. the Bears, 10 Brookline Street, Cambridge, just north of MIT. Telephone: 492-0082.

Big Barn Burning performs at the Rat, 528 Commonwealth Avenue, Kenmore Square, Boston. Telephone: 536-2750.

Third Estate performs at The Edge, One Necco Place, near South Station in downtown Boston. Tickets: \$5. Telephone: 426-7744.

Bluerunners and Darrell Scott Band perform at Johnny D's, 17 Holland Street, Davis Square, Somerville, near the Davis Square T-stop on the red line. Telephone: 776-9667.

Rick Russel Band and Crash Landing perform at Ed Burke's, 808 Huntington Avenue, Boston, on the 'E' green line. Telephone: 232-2191.

Shy Five, She Cried, Macy's Parade, and Riley's Mix perform at Bunratty's, 186 Harvard Avenue, Allston. Telephone: 254-9820.

Jumpin' Blues Dance Party, featuring Roll With It, is presented at 4 pm at the Western Front, 343 Western Avenue, Cambridge. Admission: \$2 with MIT ID. Telephone: 492-7772.

Third Eye performs at the Western Front. See June 6 listing.

THEATER

Awua presented by the Ova Theatre Troupe of Benin-City, Nigeria, at the Strand Theater. See June 7 listing.

FILM & VIDEO

The MIT Lecture Series Committee presents Crossing Delancy at 8 pm in 10-250. Tickets: \$1.50. Tel: 258-8881.

The Brattle Theatre continues its weekend series *Orson Welles Retrospective* with *The Third Man* (1949, Carol Reed) at 4:00 & 8:00 and *Compulsion* (1959, Richard Fleischer) at 2:00, 6:00, & 9:55 at 40 Brattle Street, Harvard Square, Cambridge. Tickets: \$5.50 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

Trafic (1970, Jacques Tati) at The French Library in Boston. See June 7 listing.

Sunday, June 9

CONTEMPORARY MUSIC

*** CRITICS' CHOICE ***
The Indigo Girls perform at 5 pm at Great Woods, Routes 140 & 495, Mansfield. Tickets: \$19 and \$21. Telephone: (508) 339-2333.

Mother Tongue performs at the Western Front, 343 Western Avenue, Cambridge. Telephone: 492-7772.

Greg Brown and David Bromberg perform at 3:30 & 7:30 in Sanders Theater, Harvard University, Quincy and Kirkland Streets, Cambridge. Tickets: \$17.50. Telephone: 641-1010.

JAZZ MUSIC

Rebecca Parris at the Regattabar, Charles Hotel. See June 6 listing.

Masashi Harada Sextet at the Willow Jazz Club. See June 7 listing.

CLASSICAL MUSIC

The Boston Early Music Festival Orchestra and Chorus of the Handel & Haydn Society perform Mozart's *C minor Mass, K. 427* as part of the *Boston Early Music Festival & Exhibition* at 8:30 in Converse Hall, Tremont Temple Baptist Church, 88 Tremont Street, Boston. Also presented June 9 at 3:30. Tickets: \$25, \$30, and \$35. Telephone: 661-1812.

Pomerium Musices performs works by Orlando de Lassus, Giaches de Wert, Carlo Gesualdo, and Claudio Monteverdi as part of the *Boston Early Music Festival & Exhibition* at 4 pm in Church of the Advent, 30 Brimmer Street, Beacon Hill, Boston. Tickets: \$15, \$20, and \$25. Telephone: 661-1812.

Ensemble Project Ars Nova performs *Music from the Time of the Great Papal Councils - Konstanz (1414-1417) and Basel (1431-1449)* as part of the *Boston Early Music Festival & Exhibition* at 11 pm in Old West Church, 131 Cambridge Street, Boston. Tickets: \$15. Telephone: 661-1812.

Ensemble Courant performs works by Mozart at 1:30 & 3:00 in Lindsey Chapel, Emmanuel Church, 15 Newbury Street, Boston. Tickets: \$5 for Watchorn; \$8 general, \$5 seniors and students for Ensemble Courant. Telephone: 738-8747.

Boston Shawn and Sackbut Ensemble, Schola Cantorum perform works for voice and Renaissance wind band by Guerrero, Victoria, Palestrina, Senfl, and Josquin at 4 pm at First Church Congregational, 11 Garden Street, Cambridge. Tickets: \$8 general, \$6 seniors and students. Telephone: 364-3614.

Janet Youngdahl, soprano; Vivian Montgomery, harpsichordist; and Carlene Stober, gamba, present *Women of the Baroque* at 6 pm at Kaji Aso Studio, 40 St. Stephen Street, Boston. Also presented June 9 at 1 pm. Tickets: \$10 general, \$7 seniors and students. Tel: 247-1719.

Ex Machina Baroque Opera Ensemble presents *Prohibited by Order of the King* at the Tsai Performance Center, Boston University. See June 7 listing.

EXHIBITS

Personal Solutions, an installation by Robert Goss of altering photographic images with trays, beakers, water, and text, opens today at Mobius, 354 Congress Street, Boston. Continues through June 28 with gallery hours Wednesday-Saturday 12-5. Telephone: 542-7416.

FILM & VIDEO

The Brattle Theatre continues its series *Sunday Comics* with *The Ladykillers* (1955, Alexander Mackendrick) at 4:10 & 7:45 and *Tight Little Island* (a.k.a. *Whiskey Galore!*, 1949, Mackendrick) at 2:30, 6:00, & 9:30 at 40 Brattle Street, Harvard Square, Cambridge. Tickets: \$5.50 general, \$3 seniors and children (good for the double feature). Tel: 876-6837.

Trafic (1970, Jacques Tati) at The French Library in Boston. See June 7 listing.

JAZZ MUSIC

*** CRITICS' CHOICE ***
Courtney Pine performs at 7 pm & 9 pm at the Regattabar, Charles Hotel, Harvard Square, Cambridge. Tickets: \$12. Telephone: 661-5000.

ELVIS, JUN 10



June 10 to June 26

CONTEMPORARY MUSIC

*** CRITICS' CHOICE ***
Gay singer-songwriters Romaneysky & Phillips, with Pat Humphries and comic Linda Moakes, perform on June 14 in Paine Hall, Harvard University, Cambridge. Tickets: \$15. Telephone: 497-3019.

*** CRITICS' CHOICE ***
The Divinyls perform on June 12 at City Club, 15 Lansdowne Street, Boston, near Kenmore Square. Telephone: 931-2000.

John Watson and Robia & Linda Williams perform on June 22 in Sanders Theater, Harvard University, Quincy and Kirkland Streets, Cambridge. Tickets: \$18.50. Telephone: 641-1010.

At Great Woods: Dan Fogelberg on June 11; Great Woods Folk Festival on June 15 and 16; Aretha Franklin and The Replacements on June 21; Nelson on June 25. Located at Routes 140 & 495, Mansfield. Telephone: (508) 339-2333.

At Axis: Dogzilla on June 14; The Raindogs on June 20; Saka on June 21. Located at 13 Lansdowne Street, Boston, near Kenmore Square. Tel: 262-2437.

At the Paradise: The Farm on June 10 (19+); Baton Rouge on June 11 (19+); Fear of God on June 12 (19+); Steve Earle & Will T. Massey on June 13; The Cavendish & Gigolo Aunts on June 14; Drivin' and Cryin' on June 15; Cliffs of Doonee on June 19 (19+); Bim Skala Bim on June 21; Marshall Crenshaw on June 22; Dumprick on June 26 (19+). Located at 967 Commonwealth Avenue, Boston. Telephone: 254-2052.

At the Channel: Kit Crash on June 11 (18+); King's X on June 12; The Bristolos on June 13; Parade on June 14; Molly Hatchet, Foghat, & Pat Travers on June 15; Dark Angel on June 16 (all ages); Straitjacket on June 18 (18+); Joe Higgs/Lucky Dube on June 20; Bangwater on June 21; The Fools on June 22; Bobby 'Blue' Bland on June 23; Leeway on June 24 (all ages). Located at 25 Necco Street, near South Station in downtown Boston. Telephone: 451-1905.

At T.T. the Bears: The Reivers on June 13; Heretic on June 14; Uncle Tupelo on June 28. Located at 10 Brookline Street, Cambridge, just north of MIT. Telephone: 492-0082.

At Nightstage: Will Downing on June 11; O Fosaldo on June 14 (18+ & 21+); The Atom Sale on June 15; Teresa Trull & MLiss on June 16; The Dryer Bros. on June 21; Peter Holapple, Chris Stamey, & Lonesome Val on June 26. Located at 823 Main Street, Cambridge, just north of MIT. Telephone: 497-8200.

At the Rat: The Lyes on June 14; The Neighborhoods and Uncle Betty on June 15. Located at 528 Commonwealth Avenue, Kenmore Square, Boston. Telephone: 536-2750.

At The Edge: Oh Boy on June 11; The Harmony Rocket on June 13; The Stevill Brown Band on June 14; Big Blue Meanies on June 21; Spin Doctors on June 22. Located at One Necco Place, near South Station in downtown Boston. Tickets: \$5. Telephone: 426-7744.

At Johnny D's: Immortals; Swinging Steaks, Merles, Cowlicks, and Xanna Don't on June 12; Chuck and Lava Beat on June 13; Big Blue Meanies on June 14; Sleepy La Beef on June 15; We Saw The Wolf, Country Bumpkins, Pale Mothers, Hypnotic Clamblake, and Eric Martin on June 19; Daisy Chain on June 20; John Mooney and Steve Riley on June 22; Butch Hancock on June 23; Geoff Muldaur on June 25; Human Nature on June 26. Located at 17 Holland Street, Davis Square, Somerville, near the Davis Square T-stop on the red line. Telephone: 776-9667.

At Ed Burke's: Sue Foley on June 13; Heavy Metal Horns on June 14; Johnny Clyde Copeland on June 15; Bobby King & Terry Evans on June 20. Located at 808 Huntington Avenue, Boston, on the 'E' green line. Telephone: 232-2191.

CLASSICAL MUSIC

Pianist Shaylor Lindsay performs works by Martin, Chopin, and Schubert on June 15 in the Edward Pickman Concert Hall, Longy School of Music, 27 Garden Street, Cambridge. No admission charge. Telephone: 876-0956.

The Klezmer Conservatory Band performs as part of the *Concerts in the Courtyard* series on June 20 at the Museum of Fine Arts, 465 Huntington Avenue, Boston. Tickets: \$10 general, \$8 MFA members, seniors, and students. Telephone: 267-9300 ext. 306.

Mostly Mozart Festival Orchestra performs works by Beethoven and Mozart on June 22 (Pinchas Zukerman conducting, with pianist Jon Kimura Parker) and June 23 (Gerard Schwarz conducting, with violinist Ozthak Perlman) at Great Woods, Routes 140 & 495, Mansfield. Tickets: \$5, \$15, \$25, and \$35. Telephone: (508) 339-2333.

The Handel & Haydn Society performs Vivaldi's *The Four Seasons* on June 24 in Symphony Hall, corner of Huntington and Massachusetts Avenues, Boston. Tickets: \$10 to \$30. Tel: 266-1492.

At the Federal Reserve Bank of Boston: pianist Lucy Banner performs works by Mozart, Debussy, & C.P.E. Bach on June 13; pianist Assaf Weisman performs works by Grieg, J.S. Bach, and Haydn on June 18. Located at 600 Atlantic Avenue, Boston, across from South Station. No admission charge. Tel: 973-3453.

Friday, June 7

CONTEMPORARY MUSIC

*** CRITICS' CHOICE ***
Dread Zeppelin and Mojo Nixon perform at 9 pm at the Channel, 25 Necco Street, near South Station in downtown Boston. Tickets: \$8.50 advance/\$9.50 day of show. Telephone: 451-1050.

Big Catholic Gull, Sexploitation, and Mesh perform at 9 pm in a 21+ ages show at Axis, 13 Lansdowne Street, Boston, near Kenmore Square. Tickets: \$5. Telephone: 262-2437.

The Mighty Mighty Bosstones, Funk Face, and Jungle Dogs perform at the Paradise, 967 Commonwealth Avenue, Boston. Telephone: 254-2052.

The Natives, Brahman Caste, Thetans, and The Gordons perform in an 18+ ages show at T.T. the Bears, 10 Brookline Street, Cambridge, just north of MIT. Telephone: 492-0082.

Bill Morrissey and comedian Barry

Crimmins perform at 7:30 & 10:00 at Nightstage, 823 Main Street, Cambridge, just north of MIT. Telephone: 497-8200.

The Immortals, The David Alex-Barton Band, Private Plane, and Never So Few perform at the Rat, 528 Commonwealth Avenue, Kenmore Square, Boston. Telephone: 536-2750.

Big Blue Meanies performs at The Edge, One Necco Place, near South Station in downtown Boston. Tickets: \$5. Telephone: 426-7744.

Defunkt and Joe Bowie perform at Johnny D's, 17 Holland Street, Davis Square, Somerville, near the Davis Square T-stop on the red line. Telephone: 776-9667.

Rhythmatix and Back River Snakes perform at Ed Burke's, 808 Huntington Avenue, Boston, on the 'E' green line. Telephone: 232-2191.

Jamie Rubin & His Bohemian Lovelast, The Derangers, Taumasi Poets, and Urbans perform at Bunratty's, 186 Harvard Avenue, Allston. Telephone: 254-9820.

Third Eye performs at the Western Front. See June 6 listing.

CLASSICAL MUSIC

The Handel & Haydn Society performs works by Mozart, Haydn, Beethoven, and Schubert as part of the *Boston Early Music Festival* at 12 noon in the Wang Center Grand Lobby, 270 Tremont Street, Boston. Tickets: \$15. Telephone: 482-9393.

Soviet fortepianist Alexei Lubimov performs as part of the *Boston Early Music Festival & Exhibition* at 5 pm in the Tsai Performance Center, 685 Commonwealth Avenue, Boston. Tickets: \$16. Telephone: 661-1812.

The Moscow Academy of Ancient Music performs works by Vivaldi and others as part of the *Boston Early Music Festival & Exhibition* at 8:30 in Jordan Hall, New England Conservatory, 30 Gainsborough Street at Huntington Avenue, Boston. Tickets: \$15, \$20, and \$25. Telephone: 661-1812.

The Tallis Scholars perform works by Christopher Tye and Thomas Tallis as part of the *Boston Early Music Festival & Exhibition* at 8:30 in St. Paul's Roman Catholic Church, Cambridge. Tickets: \$15, \$20, and \$25. Telephone: 661-1812.

Harpichordist Peter Watchorn performs Bach's complete English Suites at 10:00 am, 11:30 am, & 1:00 pm; Ensemble Courant performs works by Mozart at 6 pm at the Boston Center for Adult Education, 5 Commonwealth Avenue, Boston. Tickets: \$5 for Watchorn; \$8 general, \$5 seniors and students for Ensemble Courant. Telephone: 354-5821 (Watchorn), 738-8747 (Ensemble Courant).

Florilegium performs works by Vivaldi, Telemann, Dornel, and J.C. Bach at 12 noon & 2 pm in Lindsey Chapel, Emmanuel Church, 15 Newbury Street, Boston. Tickets: \$5 general, \$3 seniors and students. Telephone: 969-9324.

Pioneer Valley Cappella performs Shepherd's *Western Wind* at 1 pm at the Church of the Covenant, 67 Newbury Street, Boston. Tickets: \$5 general, \$4 seniors and students. Telephone: 413-586-7646.

Ex Machina Baroque Opera Ensemble presents *Prohibited by Order of the King*, reconstruction of a 1749 theatrical concert in Cuzco, Peru, at 1:30 in the Tsai Performance Center, Boston University, 685 Commonwealth Avenue, Boston. Also presented June 8 at 11 am. Tickets: \$12 general, \$9 seniors and students. Telephone: 612-690-2830.

The Agassiz Trio performs works by Beethoven and Haydn at 3 pm in the Old South Church, 645 Boylston Street, Boston. Tickets: \$8 general, \$5 seniors and students. Telephone: 401-831-3654.

Fortepianist Bart van Oort and soprano Andrea Folan perform works by Mozart, Haydn, and Zelter at 4:30 in Paine Hall, Harvard University, Cambridge. Tickets: \$5 general, \$3 seniors and students. Telephone: 495-2791.

Italian organist Laurence Jenkins performs works by Saint-Saens, Karg-Elert, Franck, and Vierne at 12:15 in Trinity Church, Copley Square, Boston. No admission charge. Telephone: 536-0944.

JAZZ MUSIC

Masashi Harada Sextet performs at the Willow Jazz Club, 699 Broadway, Ball Square, Somerville. Also presented June 8. Telephone: 623-9874.

Rebecca Parris at the Regattabar, Charles Hotel. See June 6 listing.

THEATER

First Night, Jack Neary's comedy about a video jockey and a former nun who haven't seen each other for 15 years, opens today at the Theatre Lobby, 216 Hanover Street, Boston. Continues through July 7 with performances Friday at 8 pm and Saturday at 6 pm & 9 pm. Tickets: \$15.75 to \$20.75. Telephone: 227-9872.

Who Killed Martha Mitchell or The Day the Laughing Stopped, Michelle Gabow's lesbian murder mystery that explores the "fear of honesty in a society that perpetuates denial," opens today at the C. Walsh Theatre, Suffolk University, 55 Temple Street, Boston. Continues through June 30 with performances Friday-Sunday at 8 pm. Tickets: \$10. Telephone: 277-2189.

Awua, a two-hour dance-drama that mirrors the cultural heritage of the Benin, is presented by the Ova Theatre Troupe of Benin-City, Nigeria, at 8 pm at the Strand Theater, 543 Columbia Road, Uphams Corner, Dorchester, near the JFK/UMass/Columbia T-stop on the red line. Also presented June 8. Tickets: \$10 to \$15 general, \$8 seniors and students. Telephone: 282-8000.

The Island of Anyplace at the American Repertory Theatre, Loeb Drama Center. See June 3 listing.

FILM & VIDEO

The MIT Lecture Series Committee presents *Letter Off Dead* at 8 pm in 10-150. Tickets: \$1.50. Telephone: 258-8881.

The Brattle Theatre continues its weekend series *Orson Welles Retrospective* with *Prince of Foxes* (1949, Henry King) at 4 pm & 8 pm and *Tomorrow Is Forever* (1945, Irving Pichel) at 6 pm & 10 pm at 40 Brattle Street, Harvard Square, Cambridge. Tickets: \$5.50 general, \$3 seniors and children (good for the double feature). Telephone: 876-6837.

The Museum of Fine Arts begins its series of *Away From Home* with Grass (1925; Merian Cooper & Ernest Schoedsack) at 6 pm and *Chang* (1927, Cooper & Schoedsack) at 8 pm in Remis Auditorium, 465 Huntington Avenue, Boston. Tickets: \$5 general, \$4.50 MFA members, seniors, and students. Telephone: 267-9300 ext. 306.

The French Library in Boston continues its series *Comedy in Summer* with Jacques Tati's *Trafic* (1970) at 8 pm at 53 Marlborough Street, Boston. Also presented June 8 and 9. Tickets: \$4 general, \$3 Library members. Tel: 266-4351.

The Cambridge Center for Adult Education continues its series *This Land Was Ours: Film Images of Native Americans* with *Broken Rainbow* at 7 pm & 9 pm at the Blacksmith House, 56 Brattle Street, Harvard Square, Cambridge. Tickets: \$3.50. Telephone: 547-6789.

On The Town



*** CRITICS' CHOICE ***

Boston Globe Jazz Festival: Heavy Metal Horn on June 17 at Charles Square, Cambridge (free); Bert Seeger Jazz Quartet on June 18 at South Station (free); Jerry Gonzalez & Fort Apache Band on June 18 at the Tsai Performance Center, 685 Commonwealth Avenue, Boston (515); Either/Orchestra on June 19 at Downtown Crossing (free); Steve Lacy Sextet on June 19 at Tsai (515); Billy Skinner Double Jazz Quartet on June 20 at Prudential Center (free); Branford Marsalis on June 20 at the Berklee Performance Center, 136 Massachusetts Avenue, Boston (515); Boston Brass Band on June 11 in Killian Hall, MIT Hayden Memorial Library Building; The Herb Pomeroy Trio on June 18 in Killian Hall; Jazzhaus Köln on June 25 in MIT Kresge Auditorium. No admission charge. Tel: 253-8778.

EXHIBITS

Emotive Expressions, paintings by Elizabeth Herr, opens June 17 at the Cambridge Center Gallery Space, 42 Brattle Street, Harvard Square, Cambridge. Continues through July 5. Telephone: 547-6789.

DANCE

*** CRITICS' CHOICE ***
American Ballroom Theater performs *It Takes Two, Fosin, and Tango & Waltz* as a presentation of Dance Umbrella June 13-16 at the Emerson Majestic Theatre, 219 Tremont Street, Boston. Tickets: \$15, \$20, and \$25, 15% discount to seniors and students on day of performance. Telephone: 492-7578.

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NDIGO, June 9

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Charles M. Vest inaugurated as the 15th president of MIT

(Continued from page 1)
 academic community. "We have an obligation not only to uphold both integrity and excellence in our scholarship, including both teaching and research, but also to be responsible and prudent stewards of the resources entrusted to us," said the British geologist, who served as an administrator at the University of Michigan while Vest was a professor there.

Procession into Killian begins inaugural ceremony

Both Vest and Rhodes spoke before a smaller-than-hoped-for audience in a cool, damp Killian Court. The ceremony began with an 800-person procession, including several university presidents, and faculty and students of the Institute. Among the representatives present were Derek C. Bok, president of Harvard University, and James J. Duerstadt, president of the University of Michigan.

Leading the procession, which moved from 77 Massachusetts Ave. to Killian Court, was Carl M. Mueller '41, chairman of the Corporation's presidential search committee. Paul E. Gray '54, chairman of the Corporation, presided over the ceremony and invested the new president, with the help of past presidents Howard W. Johnson and Jerome B. Weisner.

Susan P. Thomas, MIT chaplain, offered an invocation for the ceremony and the Boston Brass Ensemble and MIT chamber chorus performed during the ceremony. Associate Provost for the Arts Ellen T. Harris sang the national anthem.

A reception was held on

Kresge Oval immediately after the Inauguration. Several students installed a hack at the reception, hanging a large banner which read, "University of Michigan at Cambridge," from the roof of the Julius A. Stratton '23 Student Center.

According to an anonymous source, the hackers had intended to hang the banner on Building 10 facing Killian Court, but security forced them to relocate the hack. Several guards stood watch the night before to prevent any mishaps during the ceremony.

In stark contrast to the serious, lengthy speeches given by Vest and Rhodes, Stephen J. Tapscott, professor of literature, presented his original, somewhat-improvisational "Poem of Welcome" during the ceremony. The often humorous prose-poem welcomed Vest, and also considered its own role with lines like, "What am I doing here?"; the poem asks itself.

The poem also addressed more serious issues, like the number of tenured female professors at MIT. In describing the faculty gathered for the ceremony, Tapscott said, "Many are women. Others have tenure." In his own speech Vest addressed the Institute concern for diversity. "To continue this leadership in the era ahead, we must better reflect the changing face of America in our students, faculty and staff," Vest said.

"We must double and redouble our efforts to attract the brightest and best from all races, both women and men, not only to our undergraduate program, but to our graduate school and to our

faculty," he continued.

Vest sees MIT shaping the future

During his address, Vest made several such promises for change within the Institute. In setting his agenda for his tenure as president, Vest looked to "give shape to the future — the future of MIT, our nation and our world."

Conjuring the image of Marshall McLuhan's global village, Vest identified areas where advances in science and technology have affected the human condition. Vest focused on environmental protection, electronic communications and MIT's role as an international institution.

"It is no longer possible, if it ever was, for individuals or nations to think that the way in which they treat their land, air, or water has no bearing on their neighbors," Vest said. The Center for Global Change Science will help to lead the way in protecting the environment. "I believe we must marshal our interests and capabilities to understand these issues and develop solutions," Vest continued.

Vest also announced the creation of the MIT Information Infrastructure Initiative, which will work to develop a high bandwidth optical communications network and create a working model on campus.

Competing national and international interests was another theme of Vest's address. "Clearly, we must be concerned with this nation's economic well-being. We must not, however, endanger the very essence of our institution by retreating into simplistic forms of



Matthew H. Hersch/The Tech

Sen. Edward Kennedy (D-MA) meets with the press behind the Johnson Athletic Center on May 10. The day after, his nephew, William Kennedy Smith, was charged with rape. Kennedy was at MIT that day for the Inauguration of President Charles M. Vest.

techno-nationalism," he said.

On a national level, Vest expressed concern at the "declining interest and ability among our young people to pursue rigorous advanced studies, particularly in science and engineering."

"The time has come again for us to place our expertise and stature in the service of a major national effort to rebuild the strength of science and mathematics in American schools," Vest explained.

He said, "the education we most directly influence, however,

is the education of our own students." He discussed some of the challenges in an engineering curriculum, and stressed the need to infuse engineering students with "an increased respect for and enjoyment of effective, efficient and socially responsive design and production."

"The strength of an MIT education is its depth and intensity," Vest said. The MIT education should therefore be a careful balance among the humanities arts and social sciences on the one hand and mathematics and the physical and life sciences on the other."

CAA-sponsored Inaugural sit-in ends peacefully

By Andrea Lambert

About 18 pro-divestment demonstrators occupied the office of President Charles M. Vest the night before his inauguration as MIT's 15th president, leaving without incident the next day by 12 noon.

The sit-in came to an end after an agreement was reached between the demonstrators, who were members of the Coalition Against Apartheid, and a group of four faculty members at about 9 am Friday, May 10.

Provost Mark S. Wrighton told the demonstrators at about 8:30 am that they would be trespassing after 9 am and face disciplinary action if they remained in the office. In the ensuing discussion with Professor of Ocean Engineering J. Kim Vandiver '75, the group negotiated to stay in Vest's office through the Inauguration

until 12 noon.

Another part of the agreement permitted members of the press, who had gathered outside Vest's office early Friday morning but were not allowed inside to speak with demonstrators, to enter the president's office.

The demonstrators entered Vest's office at around 4 pm Thursday, May 9, and asked him to support a binding community referendum on divestment, one of the coalition's main goals in its divestment efforts over the past year. Vest told them he did not support such a referendum, and that the MIT Corporation Executive Committee is responsible for MIT's investment policy.

Vandiver, who will become MIT faculty chair June 15, served as negotiator with the demonstrators. "I was sort of the senior faculty person there because everybody else was out at

the Inauguration," he explained.

Vandiver said the decision to tell students they had to leave probably occurred Friday morning, and not at the meeting of faculty and administrators that happened shortly after the sit-in began Thursday evening.

At that Thursday meeting "a decision was made that there would be no arrests and no precipitous action of any kind on Thursday night. The administration made some ground rules that [demonstrators could] come and go to eat, [and] come and go to the bathroom. As long as they treated the president's office decently they were allowed to come and go," Vandiver said.

The next morning, though, students were not allowed to return once they left the office.

The Inauguration day was chosen for its significance, demonstrator Per N. Malkus '92 said.

"Perhaps the Inauguration heralds a new way of thinking in MIT governance."

According to Jory D. Bell '91, the demonstrators chose that day because they wanted Vest to make a public statement on divestment before his inauguration and because "this [is] a crucial time in South Africa."

The sit-in came after several meetings — in December, April and May — between CAA members and members of the Corporation Executive Committee. At the meetings, the coalition presented information to members of the Corporation, who had submitted a list of questions on South Africa to the coalition.

Earlier this spring, the coalition called for MIT to divest from companies directly invested in South Africa and from companies identified as "the most blatant examples" of indirect investment in the South African economy.

The CAA also asked the Executive Committee to make a public statement reaffirming MIT's support for economic sanctions until a non-racial democracy is established in South Africa.

MIT issued a statement May 3, stating its intent to continue its policy of "selective investment" in United States companies with operations in South Africa.

"Dialogue really worked"

Faculty-administration discussions on how to deal with the sit-in contributed to the calm, civil atmosphere surrounding the demonstration, Vandiver said. "There was a lot of discussion, a lot of faculty input into the administration [decision on] how to handle a situation of this kind," he said.

He added that "the collected wisdom" at the Thursday meeting was, "Let's be cool, not do anything rash [and] let this thing go through the night."

The way the faculty and ad-

ministration reacted to the sit-in, their attempts to foster discussion and an atmosphere of trust, closely followed the recommendations of a faculty study committee on demonstrations, which released its report at the May 15 faculty meeting. [See faculty meeting story, page 1.]

Vandiver said the demonstrations committee was formed in response to a series of pro-divestment demonstrations last year, two of which resulted in over 30 arrests. The mood at several of these demonstrations was often confrontational, he said.

Vandiver said the process for handling the sit-in was "very clearly an effort to consider carefully what to do and to bring faculty into decisions before the decisions were made. . . . The dialogue really worked this time."

Vandiver also said the negotiations with CAA members "lasted all of 10 minutes."

After the 10-minute negotiations during which the administration and students resolved the situation, demonstrators discussed with Vandiver a variety of topics. Steven D. Penn G said, "We talked about divestment and how to achieve it, functions of protest and change and how the university is structured."

Vandiver said it was a "good opportunity for students with some conscience and faculty also who are interested" to discuss issues.

Other faculty in the president's office during the early-morning discussion, whom Vandiver said were observers, were Associate Professor in the Writing Program Rosalind H. Williams, Professor and Program Head of Anthropology/Archaeology Jean E. Jackson and Associate Professor and Associate Department Head of Urban Studies and Planning Phillip L. Clay. All three were members of the demonstrations committee.



Matthew H. Hersch/The Tech

After holding an overnight sit-in in President Charles M. Vest's office, members of the Coalition Against Apartheid demonstrate during Vest's Inauguration ceremonies.

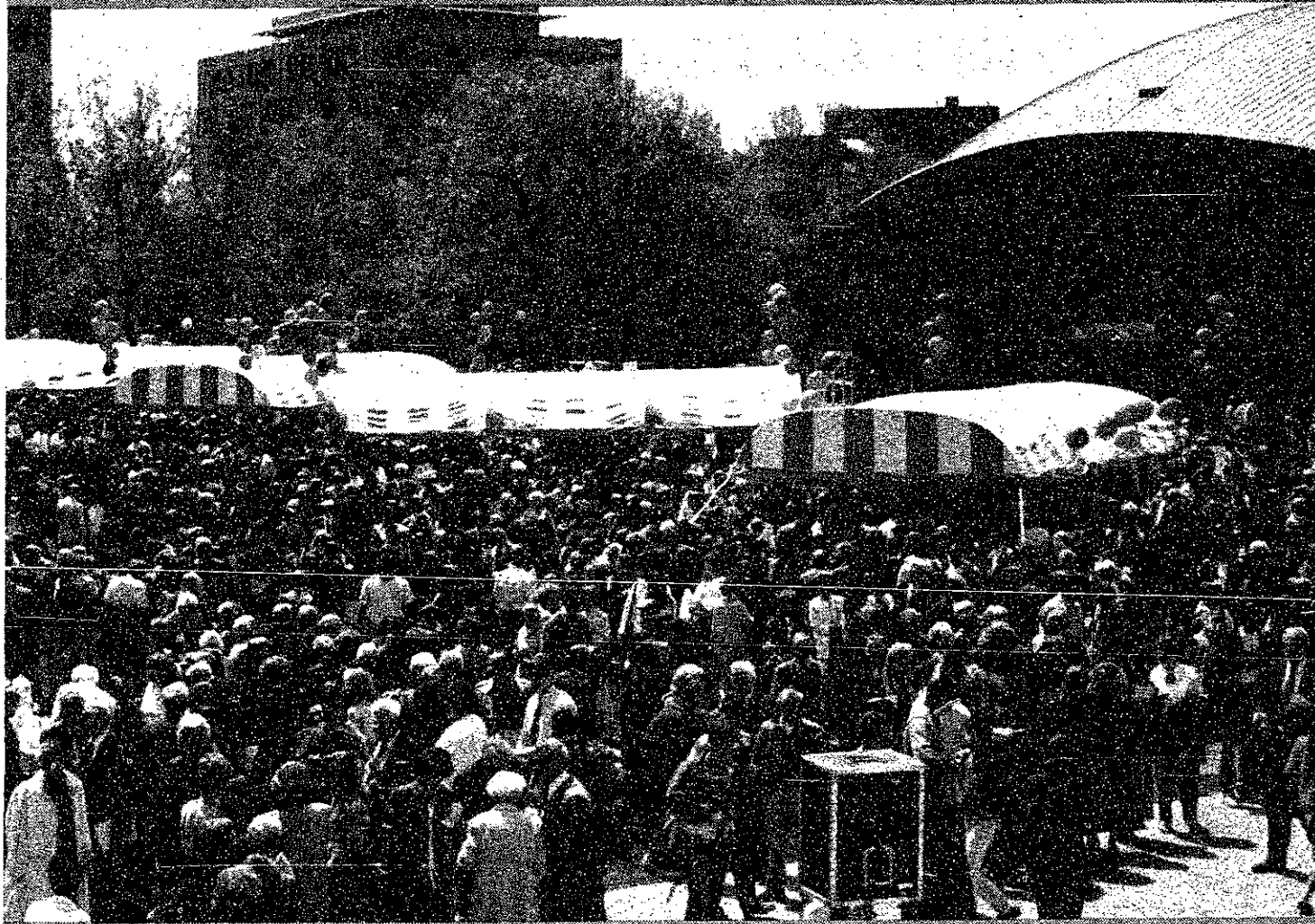
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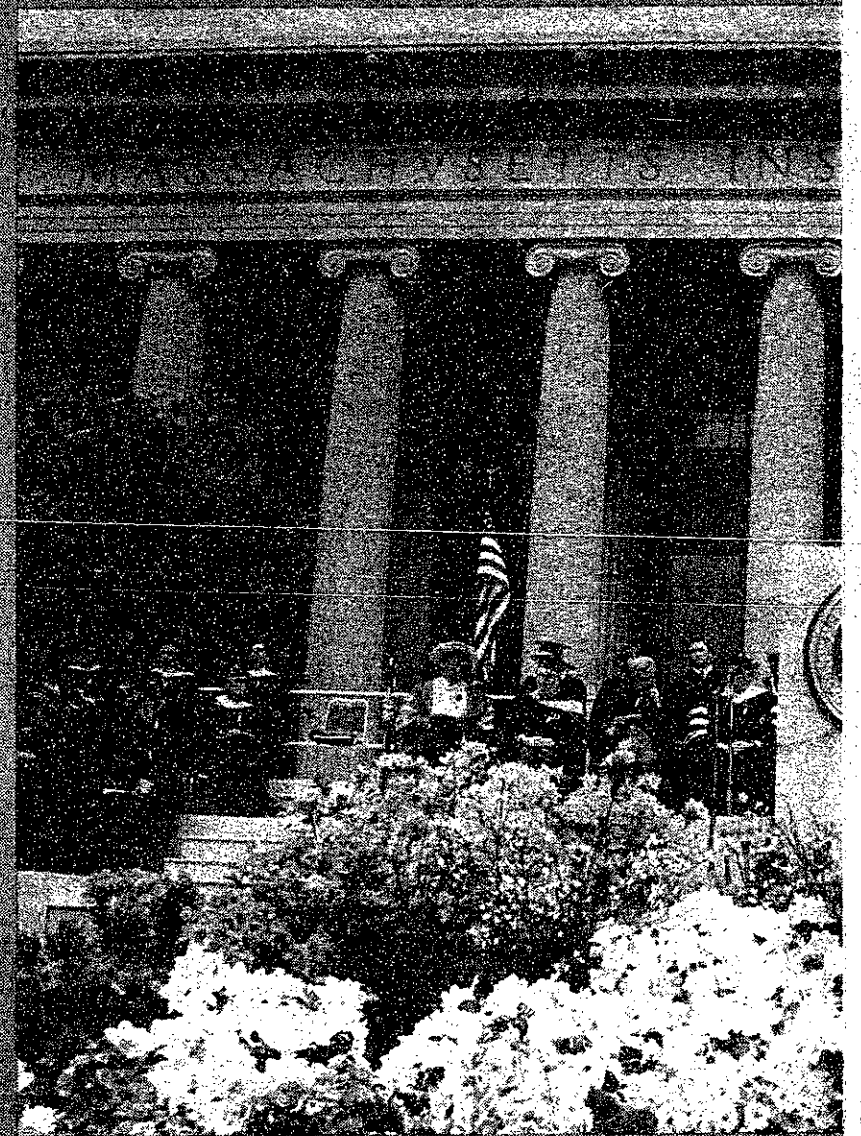
William Chu

Charles M. Vest was formally inaugurated as MIT's 15th president on May 10, 1991. The 800-person procession started at 77 Massachusetts Avenue and included Vest, Paul E. Gray '54, chairman of the Corporation, and Carl M. Mueller '41, chairman of the Corporation's presidential search committee (upper left corner). Mueller carried the MIT Mace (upper right corner) which represents Institute authority.

In his inaugural address, Vest spoke of the importance of renewing America's faith in research institutions and of MIT's role in restoring the public's confidence.



Vipul Bhushan

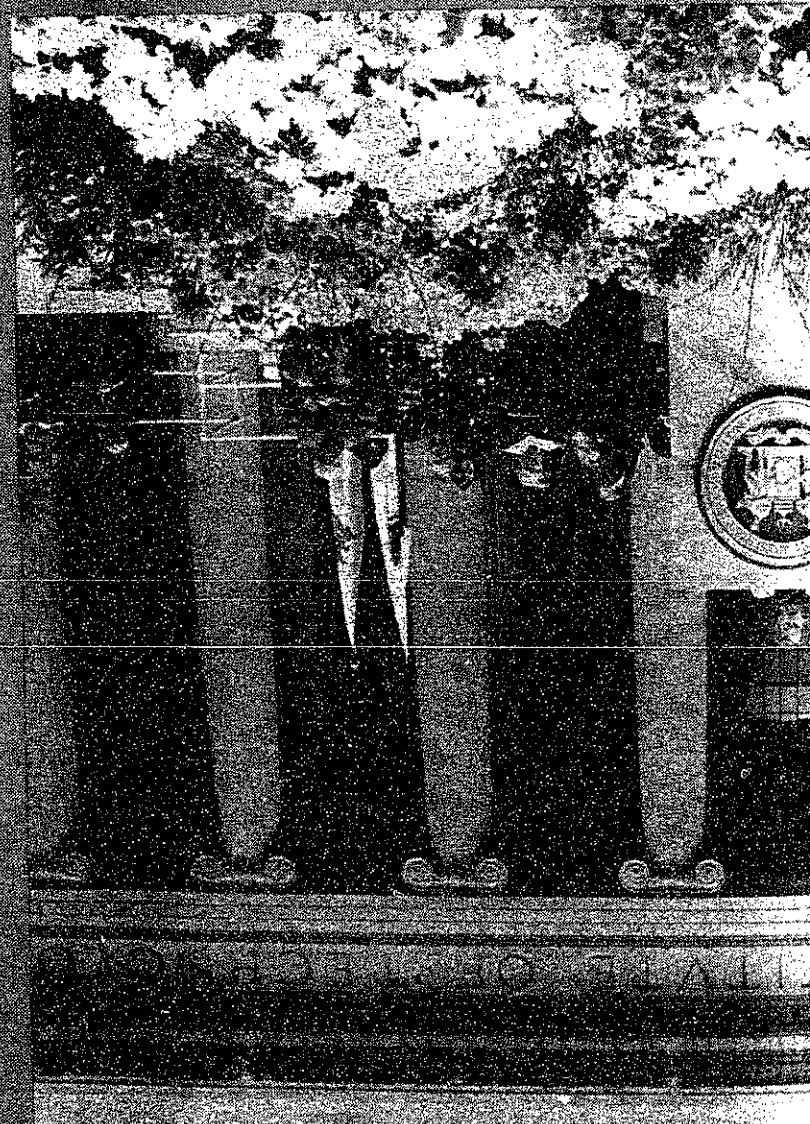


Matthew H. Hersch



ON OF A PRESIDENT

President of Cornell University Frank H. I. Knodes also spoke of the legacy of university systems. And Stephen Tapscott, professor of literature, read "Poem of Welcome," an often humorous work he wrote to welcome Vest. An MIT community reception on the inauguration ceremony. Four thousand people were expected to attend the celebration. Other inaugural festivities for Vest included an Inaugural Luncheon (right center) with Senator Edward M. Kennedy (D-MA), and Massachusetts Governor William F. Weld (not shown).

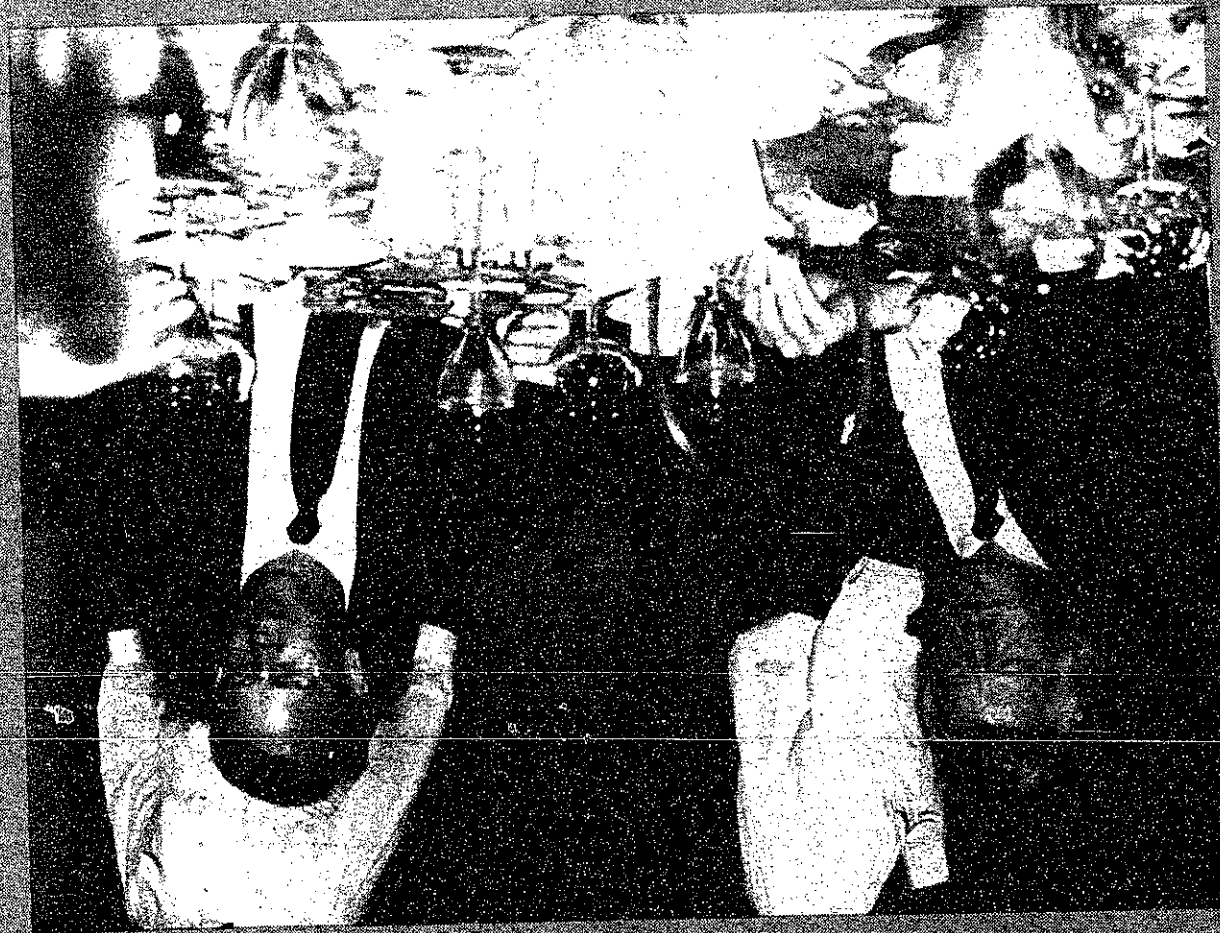
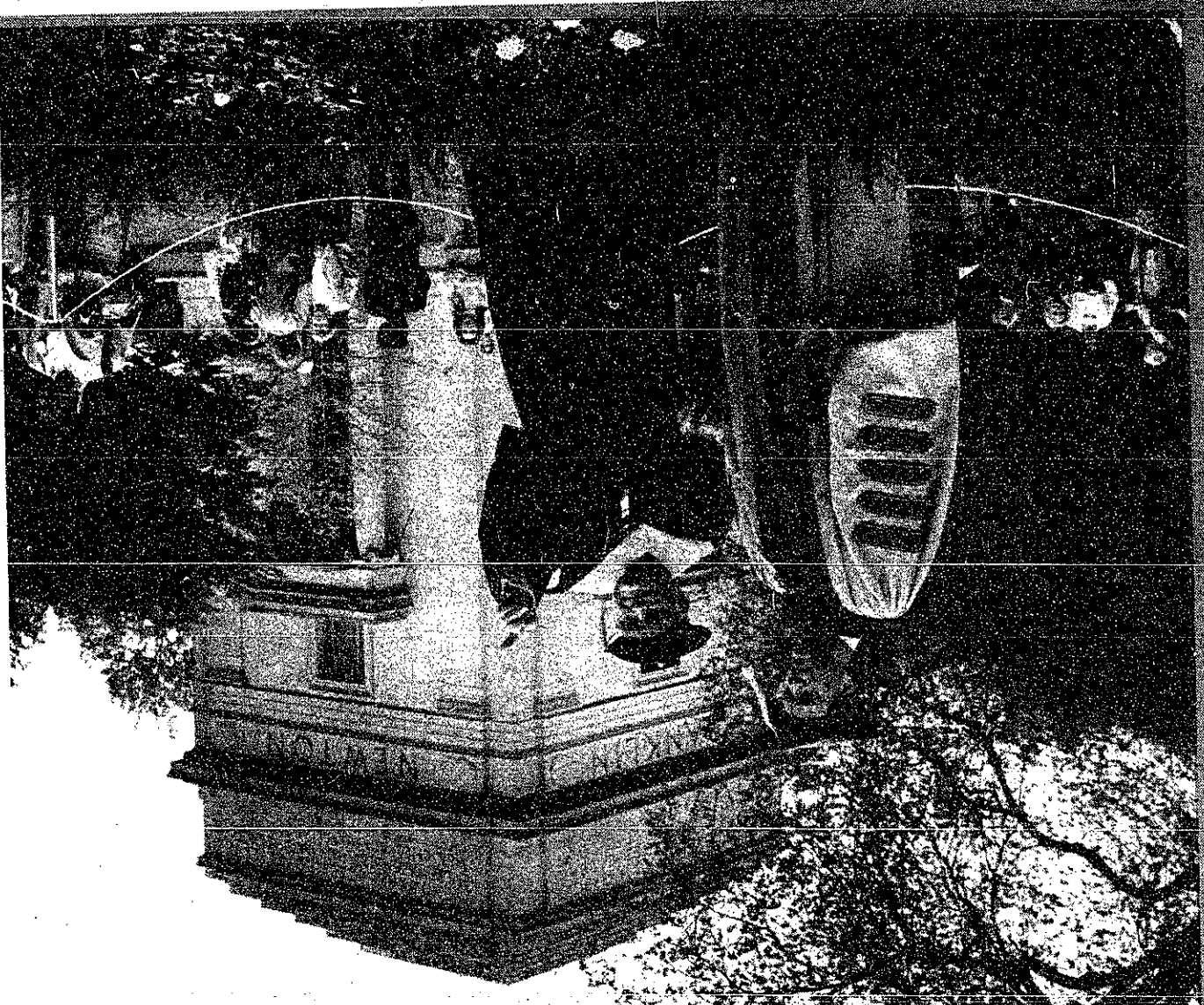


Josh Hartmann

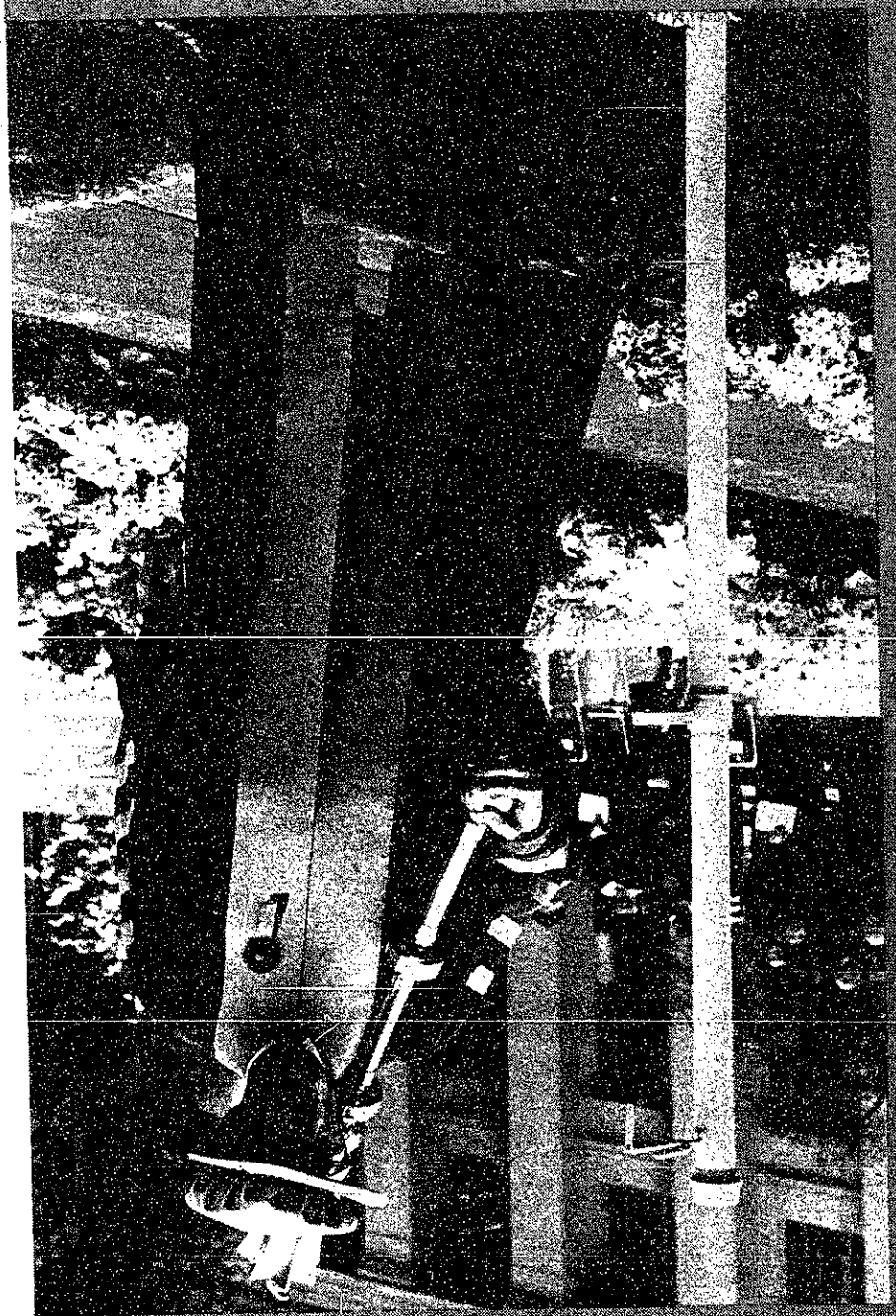


Josh Hartmann

William Chu



Vipul Bhushan



Josh Hartmann

Excerpts from Vest's inaugural address

... On the banks of the Charles River an institution has arisen that is recognized throughout the world for its unique contributions to our life and times. Established 130 years ago this spring, MIT did not become yet another comprehensive university. Nor did it become simply an "engineering school" or a "polytechnic institute."

Rather, it became a wellspring of scientific and technological knowledge and practice, and a place where musical creativity thrives. Its inventive and entrepreneurial faculty generated a great economic engine, and they have created revolutionary insights into the structure of language and the nature of learning. . . .

MIT has been home to distinguished scholars from around the world, men and women who have stretched the human mind and spirit. Above all, it has provided an intense and effective education to generations of the brightest young men and women that this nation, and the world, have brought forth.

Now MIT prepares for the passing of the 20th century and the advent of the 21st. We seek form and substance appropriate for these times, even as we seek to shape the future of our nation and world.

But we enter more than a new temporal era. We stand at the dawn of a new global age. Our lives are interwoven across national boundaries in unprecedented ways — connected through our earth's environment, whose stewardship we all share, through our economic and production systems, through instantly shared information, through universally shared dreams. . . .

MIT has played a remarkable role — at critical moments — in shaping our nation and our world. We have done so through individual creative genius and through grand institutional ventures. Like America itself, we have responded in an heroic and innovative manner to sudden challenges, such as the onset of World War II or the launching of Sputnik.

Today we are challenged once again on a grand scale. But this time by slow, corrosive forces rather than by sudden, galvanizing events. By the erosion of our global environment rather than by explosions at Pearl Harbor. By declines in scientific literacy and industrial competitiveness rather than by the launching of a satellite.

This morning I would like to share with you my view of the challenges that confront us and to offer a growing vision of the opportunities they present for the future of MIT.

A new global age

... We are connected, across time and space, as never before in human history. Many of these connections have been made possible by the advances in science and technology. We must learn to deal with this interdependence in new ways — creating new forms of organization and incorporating new points of view. Let me give three examples.

First, the earth's environment — a fragile envelope that bears witness to the degrading effects of human activity. It is no longer possible, if it ever was, for individuals or nations to think that the way in which they treat their land, air and water has no bearing on their neighbors.

Nor is it possible for us to work on each aspect of this damaged environment as a separate problem. Ironically, many of the scientific and technological advances that so enhance human comfort and well being — advances in transportation, energy and agriculture — concurrently pose threats to our biosphere. . . .

The stage has been set at MIT by the establishment of the Center for Global Change Science and by the new Council on the Global Environment. Only with this kind of integrated approach — drawing on faculty from disparate fields — can we hope to meet the profound challenge of making and keeping our planet livable.

Another challenge — and set of opportunities — in our increasingly interdependent world lies in the realm of electronic communication. Instantaneous communication, both verbal and visual, has reduced our planet to the electronic global village once envisioned by McLuhan.

Knowledge has become a capital asset, at least as important as physical resources. Bits of information flowing through copper wires, optical fibers or satellite links have become a new currency: the currency of the information marketplace.

Increasingly, the commerce of this new marketplace will be conducted along fiberoptic information superhighways that will connect computers, telephones, high definition video systems, and hybrid technologies yet to be developed.

This information infrastructure already exists in rudimentary form. MIT has the opportunity to play a pivotal role in bringing increased capabilities and coherence to this system, and in defining the currency of the new information marketplace.

In doing so, we must not only increase the power and ease of computing and communications, but we must do so in ways that enhance our intellectual and social capabilities, that help us make wiser decisions, and that enable us to bridge cultural and political barriers.

We need to infuse our engineering students with an increased respect for and enjoyment of effective, efficient and socially responsive design and production.

Here, too, we must invent new ways of combining our talents across disciplinary and institutional boundaries in order to give form, substance, and humanity to the dawning information age. To this end, I am pleased to announce the establishment of the MIT Information Infrastructure Initiative — a project that will bring together eight different organizations within MIT with the goal of working with industrial partners to develop a very high frequency, entirely optical network and to establish within our campus a working model of the information marketplace.

My third example derives from the increasing political and economic connections throughout the world. These connections pose the question of whether the MIT of the future will be a national or an international institution. What does it mean for MIT to be a citizen of a world where common problems or interests are often more powerful than geographic distances, yet where national differences exist?

The issue is complex. MIT is a national institution. But America is no longer isolated. . . .

... in order to serve America well, we must participate in the broader global community. Basic science has always prided itself in being the prototype for true international cooperation, but today this viewpoint and system are being strained — strained because of the increasing economic value of university-generated knowledge and technological concepts.

There are those who look at this country's position on the economic balance scales and call for greater protection of our ideas, especially those having to do with science and technology.

Some look at this country's troubles in the world marketplace and are quick to blame our overseas competitors. Others cast the issue into the framework of Pogo Possum's famous saying: "We have met the enemy, and he is us." And still others quickly respond along the lines of Robert Reich, who asks, "Who is us?" — that is, in this day and age, what defines an American corporation?

Clearly, we must be concerned with this nation's economic well being. We must not, however, endanger the very essence of our institution by retreating into simplistic forms of technological nationalism. . . .

The changing face of America

Just as we develop new connections among nations, so too must we seek new connections within our own. The face of America is changing significantly and rapidly. Our society is increasingly pluralistic, yet our connections across racial, ethnic and sometimes even gender boundaries are frayed.

Securing America's promise for all remains a crucial goal. The nation's potential will not be fully realized until all racial and ethnic groups have full opportunity to realize their own potential and, in doing so, to contribute fully to the health and vigor of our society.

MIT has traditionally educated engineers, scientists and others to develop technologies, lead businesses, and serve as professors, researchers and scholars. To continue this leadership in the era ahead, we must better reflect the changing face of America in our students, faculty and staff. . . .

As one step, we will begin implementing during the coming weeks a program proposed by the Equal Opportunity Committee to recruit more women to our faculty. And we will reaffirm and reinvigorate our policies and programs for bringing more underrepresented minority members to our faculty.

As we succeed, and in order to succeed, with these and other efforts, we must work to ensure that MIT is a place that respects and celebrates the diversity of our community. Just as we celebrate learning about the physical universe, or the political and economic worlds or the creative arts, so must we celebrate learning about, and from, each other.

Such change is rewarding, but it is seldom easy. During the years ahead we must refuse to let the centrifugal forces of intolerance and injustice pull us apart. We must be held together by respect for the individual and by a commitment to the values we hold in common.



Education: To move a nation

Just as we as individuals are part of an interwoven social fabric, so too is MIT part of an interdependent educational system — one that begins before kindergarten and extends through post-doctoral studies. Within this system, America's colleges and universities stand as national treasures.

But the strength of these institutions, and thus of our society, is imperiled — imperiled by the state of our primary and secondary schools, and imperiled by the declining interest and ability among our young people to pursue rigorous advanced studies, particularly in science and engineering. These trends must be reversed.

It is my firm belief that national educational strength is the essential prerequisite for economic and social prosperity. Education can move a nation: The future belongs to those who understand it. . . .

Until we, as a nation, wake up to the fact that we must increase our investment in the growth of human capital — that is, people and ideas — our educational system will spiral downward, pulling our economy and our way of life with it. This is a danger of the first magnitude, and we must all work to address it. . . .

An MIT education for the future

The education that we most directly influence, however, is the education of our own students. . . .

In recent years, our faculty has been involved in a long-term review of the undergraduate program. . . . No one has been more engaged with these matters over the years than our engineering faculty. . . .

We need to infuse our engineering students with an increased respect for and enjoyment of effective, efficient and socially responsive design and production. Today, we must prepare engineers who have the self discipline, analytical skills, and problem-solving abilities, so highly valued in MIT graduates, but who are also prepared for the challenge of production and leadership in the world marketplace of the next century. . . .

All do not agree with this view. Many believe that our mission has become distorted and that education has been lost in our desire and responsibility to excel in research. This is clearly a central issue for MIT — one that must be openly discussed in all corners of the Institute.

This fall, as an event of the inaugural year, we will hold a major colloquium on the topic of teaching and learning within the research university. I intend this to be a no-holds-barred debate that will illuminate our efforts to shape the future of education at MIT.

Educational success at MIT depends, above all else, on the commitment and inventiveness of our faculty. Excellence in undergraduate teaching must be rewarded and encouraged. To this

end, we are establishing an endowed program to recognize faculty members who have profoundly influenced our students through their sustained and significant contributions to teaching and curriculum development.

A select number of faculty will be appointed as faculty fellows, each for a 10-year period, and will receive an annual scholar's allowance throughout their appointment. The first fellows will be appointed this year, and we expect their ranks to build to at least 60 during this decade.

The strength of an MIT education is its depth and intensity. Our graduates value above all else their self-discipline, analytical thinking skills, and their confidence to take on great challenges.

Today, science and technology, culture and policy, industry and government, production and communication, are interwoven as never before. The nation needs broadly educated young men and women to be leaders of the next generation.

An understanding of science and technology is surely part of what such leaders must possess. Similarly, those who practice science and technology need an ever greater understanding of the world in which they will work, and must be able to contribute wisely to policies affecting the development and uses of technology.

It is my firm belief that national educational strength is the essential prerequisite for economic and social prosperity.

What does this mean for education at MIT? Surely it means a careful balance among the humanities, arts and social sciences on the one hand and mathematics and the physical and life sciences on the other. And it means a continuing look at our departmental programs to ensure that — in content and approach — they give our students the best possible foundation for intellectual growth and professional achievement. . . .

An MIT education should enlarge an individual's choices — and so should include a common experience in science and mathematics, a serious exploration of the humanities, arts and social sciences, and a continuing conversation among these fields. . . .

Rebuilding trust in science and technology

... today, the American public is calling into question the value of our research universities, and no longer tends to view science and technology as the foundation of progress. The public's attention is caught not only by the debate over the costs and quality of undergraduate education, but by the debate over the costs and conduct of research.

The doubt of the moment, however, must not be allowed to weaken the basic concept of the American university system, one that is universally recognized as being the best in the world. This system is founded on a social contract with the American public and enhanced by partnerships with government and industry.

We cannot keep our flexibility, our vigor, our quality — as a nation or as an academic community — by taking this partnership for granted. We need to rebuild trust in this nation's research universities and its scientific enterprise. We must ensure that the foundation of scientific and scholarly research is secure.

What is this foundation? Jacob Bronowski stated it with deceptive simplicity when he wrote, "The end of science is to discover what is true about the world." . . .

Like all human endeavors, science is not, and cannot, be totally free from error or even occasional abuse. And so it rests upon us — as scientists and scholars — to do a better job of strengthening, continually renewing, and transmitting our system of values. . . .

Public confidence in our universities must be fully restored. Our social compact must be reestablished. But in the discourse required to do so, we must avoid the trap of justifying all that we do on utilitarian grounds.

Clearly, we have been great contributors to the nation's economy, and this must continue to be a cardinal element of MIT's mission. But we must take care not to overemphasize these contributions as the justification for investing in universities.

If we overuse such arguments, we might unwittingly endanger our traditions of intellectual excellence, innovation, integrity, openness, worldwide service, deep scholarship and independent criticism. Ultimately, our contributions to social progress, and well-being rest on our ability to steer our own course, with imagination and intellectual daring.

Closing

What then is my vision of MIT a decade hence?

MIT will be a preeminent wellspring of scientific knowledge and technological innovation. MIT will foster the pursuits of individual scholars, whose work so often leads to truly fundamental discoveries.

We will be known for our ability to establish new and effective methods for analyzing complex and pervasive issues facing the nation and the world. In an invigorated partnership with industry, the government, and other educational institutions, we will contribute profoundly to their solution.

MIT will be known for educating engineers who combine the spirit of innovation and invention with a passion for the highest quality and efficiency in design and production.

MIT will better reflect in our students, faculty and staff the changing face of America. We will find ways to instill the excitement and romance of science and mathematics in new generations of young people.

MIT will spearhead efforts to rekindle our nation's belief in the importance of scientific research and education. We will have found renewed commitment to the deepest values of the academy. MIT will stand for integrity in all that it does. MIT will serve our nation well, but also will be of and for the greater world community.

Above all, the Massachusetts Institute of Technology will be a place to which the brightest young men and women will come for their educations. They will be able to attend MIT regardless of their financial circumstances. They will be taught and counseled by dedicated teachers who themselves define the leading edge of human knowledge and invention.

Their education will be robust: deep in scientific content, yet providing the flexibility and learning skills to serve them well in ever-changing and expanding circumstances.

They will be attuned to the complexities of their world, a world that they will help to change. Through that wonderful blend of undergraduate education, graduate education, research and creative activity that is MIT, our students will be enriched and they, in turn, will enrich the Institute.

Mens et manus: With mind and hand we set forth. Our promise will be secured by the collective energies and wisdom of those who are drawn to this great magnet for intellect and creativity. Together, we will give shape to the future — the future of MIT, our nation, and our world.

Sheraton construction to begin soon

By Joanna E. Stone

The seemingly never-ending saga of the fate of University Park and the Blanche Street houses has finally reached a seemingly happily-ever-after conclusion. After a decade of demonstrations, hearings and general dispute, the Blanche Street houses have finally been moved to their new location on Franklin Street and construction of a 300-room Sheraton Suite Hotel on that site is scheduled to begin this summer.

For several years now, the two MIT-owned three-story houses remaining on Blanche Street — occupied by a total of four people — have been the only thing standing in the way of MIT's completing its final piece of the plan for University Park: the construction of the hotel and convention center in the so-called Simplex parcel in Cambridgeport.

The relocation of the houses to a site 1000 feet away from their present location had been approved by the Cambridge Rent Control Board in 1989, and upheld in Middlesex County Superior Court last summer. MIT had agreed to pay for temporary housing for the four tenants and to provide care for any animals they own.

However, due to the July 1990 parking freeze in Cambridge, the case was again brought in front of the Cambridge Rent Control Board this past fall. The tenants claimed that the freeze changed University Park's situation enough to permit the board to declare the removal permits null and void.

At a hearing Jan. 23 the board found that circumstances had not changed, but delayed the issuance of certificates of eviction "until MIT presents evidence to the [Rent Control Board's] executive director that it has secured financing of the development proposed for the subject sites."

MIT decided to sue the Rent Control Board for what they saw as a violation of the original agreement. "The board made an agreement, we've lived up to our side of it, we've provided all that they requested and now they're asking for more," said Scott Lewis, an attorney for Palmer and Dodge, the law firm representing MIT in the case.

MIT eventually won the suit, and several more hearings later, the University Park project can finally proceed to completion.

"The proceedings have run their course and it's now time for the buildings to be moved," said Terry Morris, director of the Cambridge Rent Control Board.

Bob DiIorio, associate director of the MIT News Office, noted MIT's enthusiasm over the fact that University Park can finally move towards completion. "We're very pleased that the project is moving forward and that it's one step closer to being a reality," DiIorio said. He also noted that this outcome seems to be a positive one for all the parties involved.

Even tenant Peter Valentine expressed his approval of the project for the first time in an interview with the *Boston Globe*.

"What is important after all these years is that there has been

a relatively harmonious conclusion. . . . I am happy with the decisions that have been made," Valentine said.

In the past Valentine had been a staunch opponent of the development project, and had come to represent the intangible hardship that would be suffered by Blanche Street residents from the removal of their homes from their present site.

In a board hearing this past fall, Valentine testified that he could not be moved from his

nied by unadmitted evidence, including a bag of gray hair which Valentine claimed had been his own and a display of other hairs which he said showed he had found a way to turn gray hair back to its original color without the use of chemicals, "in other words, to reverse the aging process."

Valentine claimed that if research like his were occurring at MIT, all efforts would be made to accommodate the researcher. He said that he had to remain at

visible controversy surrounding MIT's planned development of University Park. The controversy began about a decade ago, when three three-story buildings located on Blanche Street, owned by MIT, were left vacant and uninhabitable.

The buildings gained the public spotlight in 1988 when protesters constructed a "Tent City" and asked MIT to allow them to renovate the houses so that the homeless could live in them.

Some people claimed that MIT had purposely allowed these houses to deteriorate in order to remove them from the rental market and vacate the land, in an attempt to expedite the development of University Park.

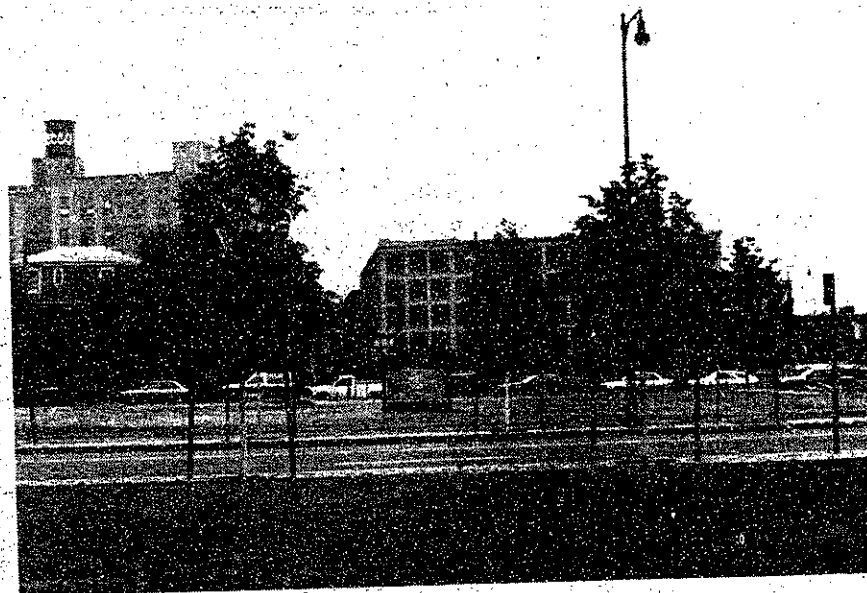
"University Park development is a definite improvement over what was there before," said Catherine Woodbury, Cambridge City Project Planner, who helped oversee the development of the University Park land.

"Prior to all of this, the character of that part of Cambridgeport was older industrial," she noted. "There used to be chemical, bigger type factory buildings."

Before MIT bought the land, it had been the site of the Simplex Wire and Cable Co. factory and its out buildings.

"I think this fits in much better with the residential surrounding neighborhood," Woodbury said.

Woodbury speculated that University Park's days in court are probably over. However, she contended, "It's not always possible to identify what might become a controversial issue in the future."



Douglas D. Keller/The Tech

Construction of a 300-room Sheraton Suite Hotel is scheduled to begin this summer on this site in University Park, the Cambridge parcel owned by MIT.

home because he was currently in karma with his energy fields and relocation might jeopardize this karma.

His testimony was accompa-

his current residence, in its current location, in order to continue his research.

Valentine has consistently been a very visible part of the very

A Safe Ride called overwhelming success

By Jeremy Hylton

Use of the new safety shuttle is very heavy after little more than a month of service, according to Campus Police Chief Anne P. Glavin.

"Originally we thought that this thing would take off within six months or a year's time," Glavin said. "It really took off within the first four days."

The 12-passenger van runs from 6 pm to 3 am Sunday through Wednesday, and until 4 am Thursday to Saturday. The shuttle was intended to lighten the burden on the Campus Police escort service, which still runs during hours the van does not.

Rides on the van are available to all members of the MIT community. "I think that the primary emphasis has been on the student side," Glavin explained.

Preliminary estimates indicated that about 60 people ride the van each night. "We're collecting a lot of usage from the Boston fraternities and independent living groups," Glavin said.

The shuttle service's popularity was difficult to predict, in part because the previous escort service did not run to living groups in Boston. Official statistics for van use were not available yet, but Glavin said the van spends more than half its time in Boston.

"One of the things we were hoping would happen is that it would be overwhelmingly successful," said Jennifer B. Singer '92, co-chair of the Undergraduate Association's Campus Safety Committee, which proposed the shuttle service.

She said that the success could overload the service and help convince the administration to fund another van. The provost's office bears operating costs for the van, which will run about \$50,000 for the first year, according to Provost Mark S. Wrighton.

Though the van runs through the weekend hours when fraternity parties are held, there have been few problems with the riders. Glavin noted a few occasions when riders had too much to drink and became "rowdy."

"The first weekend the shuttle was in operation we got a report that some individuals on the 500 block of Beacon Street were dis-

rupting the van. They were shaking it," said Neal H. Dorow, advisor to fraternities and independent living groups. Glavin asked Dorow to handle the matter, because the primary riders of the van in that area live in ILGs.

"The incident was minor, but the results could be very major if they aren't controlled," Dorow said.

Dorow talked to the Interfraternity Council President's Council about the problem. He is also working with the IFC's community relations officer to prevent another incident from occurring.

Glavin said the initial purpose of the van was safety of individual travelers, but many people ride for convenience. "There has been a major shift in the original purpose of the campus escort," Glavin said.

The heavy student use has turned into long waits for the van. Glavin said that she has re-

ceived some complaints that the wait for the van to arrive is too long. Some students have waited as long as an hour, according to Singer. During the summer months, the wait should be shorter, because fewer students will be riding the van, Glavin said.

The heavy use of the van was expected, but not so soon after it started running, Glavin said. "None of this has taken us by surprise," she said. The heavy use prompted the Campus Police to begin considering options to improve service.

"In terms of the problems, the difficulty is that we have only one van," Glavin said. The system also strains the Campus Police dispatch service, which provides communication between the van driver and riders.

Glavin will consider options to lighten the load on the van and the dispatch service. Singer add-

ed, "Now we're looking at getting another van and some set routes." Singer said the creation of two routes, one for the Cambridge side of the river and another for the Boston side, was being considered.

Initially the shuttle service was meant to take some load off the Campus Police officers. "With the other things they had to do, they just couldn't keep up," Glavin said.

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Bio requirement passes

(Continued from page 1)

The resolution that the Committee on Undergraduate Program (CUP) offered to the faculty was stated as follows:

"That one semester of modern biology be added to the Science Core of the General Institute Requirements, effective with the freshman class entering in fall 1993."

The CUP also recommended, "That the name 'Science Distribution' be changed to 'Restricted Electives in Science and Technology'. That the number of subjects required in Restricted Electives in Science and Technology be reduced from three to two; both of these may be specified by departmental programs, but no more than one may lie inside the department."

The CUP recommended that the modern molecular biology



Tech file photo
J. Kim Vandiver '75

course used to satisfy the biology requirement be labeled 7.01n. This way the subject could come in "several different versions (7.011, 7.012, etc), with each version having a similar core but emphasizing a different aspect or application of biology for students with different backgrounds and interests."

Earle L. Lomon '54, professor of physics, introduced an amendment to the CUP motion. The proposed amendment, which created a great deal of controversy at the meeting, suggested that the biology requirement could be met not only by 7.01, but also by Genetics (7.03) or General Biochemistry (7.05).

"The difference is that students and departments will have some choice," Lomon said. He said that as the original CUP policy is stated, students might think they have to take 7.01 their freshman year. "I think it's important it not be indicated that the subject should be taken early."

Hartley Rogers Jr., professor of mathematics, was the first to speak against the amendment. "The core requirements represent a characteristic feature of MIT," he said.

"In the core we teach 19th-century math, late-19th, early-20th century chemistry. The upper-class departments depend on this and use it," Rogers said.

"7.05 is maybe middle of this century, maybe early," he said, adding, "Sorry Gene", referring to Gene M. Brown, dean of the School of Science, who teaches 7.05.

Rogers said that 7.01 provides a broad knowledge of modern, late-20th century biology and upper-class biology courses such as 7.05 or 7.03 could now change to accommodate this, so that 7.01 could become a prerequisite.

After several more professors made speeches both for and against the requirement and proposed amendment, one professor stood and called for student

voice on the proposals. "We speak over and over again about the importance of getting representing views from students." In absence of student voices, he felt it important to point out that the Undergraduate Association referendum on the biology requirement received only a 50-50 vote. He then reiterated his call for student input.

MacVicar noted that there had been interaction with students all along. "50-50 is the best you're going to get in a student referendum," she said.

UA Vice President J. Paul Kirby '92, then stood to answer the call for a student voice. He said there had been some student disagreement concerning the manner of implementation of the biology requirement. But there had not been heated debates on the matter, he said; "Instead there has been quiet calm discussion on which would be preferred."

Provost Mark S. Wrighton expressed his belief in the importance of a requirement that would give students a general knowledge of biology. He also expressed his concern that students not be overloaded with requirements during their freshman year. "We should find some palatable way to make sure freshmen do not feel they have to take [7.01 their first year]," Wrighton said.

A show of hands vote was taken on the proposed amendment. It was defeated by an approximately two-thirds vote. After more discussion, a voice vote was taken on the original CUP motion. It passed with an overwhelming majority.

According to the motion, the president will appoint an ad hoc committee to review the scope and balance of the General Institute Requirements as well as the Institute calendar and its implications for the academic program.

Demonstrations committee presents plan

After the CUP motion passed, many faculty members departed from the meeting. John G. Kasakian '65, professor in the Department of Electrical Engineering and Computer Science, then presented the report of the study panel on policies related to demonstrations.

The report begins by stating: "The freedom to assemble and speak openly is fundamental both to the political health of our democracy and to the intellectual vitality of our university."

The report suggests that when the faculty chair perceives that "a contentious issue appears likely to lead to demonstrations involving conflict and confrontation," the chair should convene an ad hoc committee consisting of students, faculty and administrators.

The report then outlines a five-step plan for the committee to follow: "Be available to consult with involved parties; assist with mediation where possible; review the issues in contention; encourage community-wide discussion of the issues; and, serve as observers during demonstration."

The report stipulates that, "At the conclusion of activities, the ad hoc committee will report its findings to the faculty."

By coincidence, the study panel's recommendations had already been successfully "field tested," noted incoming Faculty Chair J. Kim Vandiver '75, when a sit-in occurred at President Charles M. Vest's office only five days prior. [See story on sit-in in Vest's office, page 19.]

In accordance with the final stipulation of the study panel's recommendations, Vandiver reported the details of the sit-in to the faculty. The lesson learned, according to Vandiver: "There are some very bright, concerned students; they're not just trouble

makers as is sometimes thought."

Vest began the faculty meeting by expressing his gratitude to faculty members for his Inaugural celebration. It was "so meaningful to Becky and me," he said.

Before addressing the biology requirement recommendation, the faculty unanimously voted to approve the members of the faculty committees and officers of the faculty.

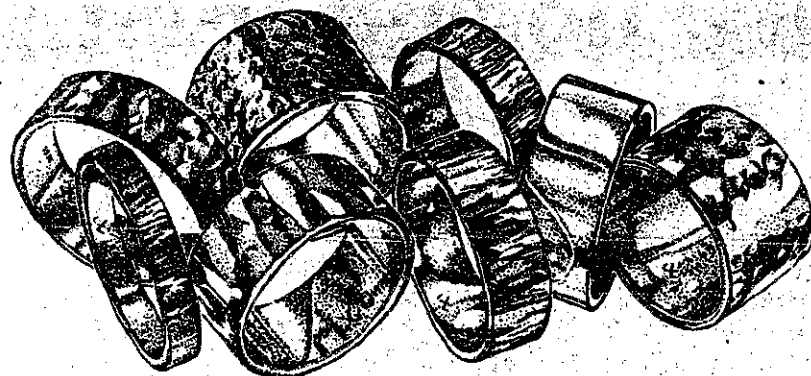
The faculty then passed a resolution on the death of Professor John F. Elliot '49, a professor in the Department of Materials Science and Engineering. A moment of silence was held for the highly praised late professor.

Next on the agenda, the Killian Award Committee presented its award to Institute Professor Noam A. Chomsky. "During his years at MIT, he has been the most recognized leader in language philosophy," said Uttam L. Rajbhandary, professor of biology, who presented the award to Chomsky. Rajbhandary also noted that "it is the responsibility of intellectuals to speak their views."

In his acceptance of the award, Chomsky remarked that he is completing his 35th year of teaching. "I've always been thankful for the opportunity to be part of an intellectual environment. I'm glad I have a few years left to achieve," he said.

A motion to elect members of the faculty ex officio for the 1991-92 year was passed. Vest then introduced the CUP motion for a biology requirement, which was followed by the demonstrations panel report.

In addition, Vest spoke very briefly on the issue of indirect costs. And the Commencement Committee made its report and invited faculty members to vote on the degree list.



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MIT: no anti-trust violations

Denies federal charges of collusion in student aid

(Continued from page 1)

would be named in the Justice Department suit until the press conference, MIT is still waiting to receive the official complaint, he added.

According to MIT attorney Thane D. Scott, MIT has 20 days from the day it receives the official complaint in which to respond. He said MIT's lawyers were "still considering the various ways in which MIT can respond."

As part of the settlement between the Justice Department and the Ivy League, the schools will no longer hold Overlap Group meetings — annual spring gatherings at which the Ivy League schools, MIT and 14 other private institutions met to exchange information on the financial need of common applicants and agreed to offer those students roughly the same financial aid packages.

Several of the schools have said they believe the Overlap meetings — which they still contend were lawful — assured that available financial aid moneys from universities and the government served the largest group of eligible students.

The objective was to make it possible for students to "optimize their educational aims without regard for their financial means," Wrighton said of the meetings.

He added that the meetings allowed schools to agree on the best financial aid package for prospective students and freed prospective students to "make a judgment based on their own interest about where they would like to go" rather than on which school offered them more aid.

Daniel Steiner, chief counsel for Harvard University, told the *Boston Globe* that the exchange of financial aid information at the Overlap meetings actually ensured that the neediest students received aid.

Without the Overlap meetings, schools competing for the same student can use financial aid as an incentive, Steiner said. He predicted that a "bidding war," in which applicants receive offers of financial aid whether they need it or not, would result.

"It is already happening now," Steiner said. "Money is being used to subsidize well-to-do students at the expense of students who can't afford to pay. We don't

think that is a good result."

The Ivy League schools said they signed the consent decree in order to end a costly legal battle. Dartmouth reported it had spent \$400,000 — the equivalent of 40 typical scholarships — on legal costs.

Wrighton said he could not estimate what the cost of not settling the antitrust suit would be for MIT.

Because MIT did not sign the consent decree, the case against it will continue in the Federal District Court in Philadelphia, where the attorney general filed suit.

For the Ivy League schools that signed the decree, the case is still pending as well. After a 60-day period for the general public to comment on whether the Ivy League's consent decree is in the public interest, the settlement must be approved by Judge Louis Bechtel in Federal District Court in Philadelphia.

As part of the settlement, the Ivy League schools agreed "that they will no longer collude or conspire on financial aid," Thornburgh said. The schools "also agreed not to discuss or agree on future tuition or faculty salary increases," he said, although the issue of tuition or faculty salaries was not mentioned in the suit.

The settlement also bars direct or indirect agreements with any other college or university regarding financial aid formulas, individual financial aid packages beyond what is required by federal law, the offering of merit aid, and the setting of student fees and faculty salaries. The schools are also prohibited from exchanging information about budgetary plans or projections.

Under the settlement, schools will still be allowed to continue to disclose financial aid policy information and to continue consultations with the College Scholarship Service regarding the processing and presentation of financial aid data.

The schools will be required to obtain annual certification of compliance with the terms of the settlement for a period of 10 years, under penalty of criminal contempt of court.

Assistant Attorney General James F. Rill said at the news conference the lack of merit-based aid was one of the con-

cerns that led the Justice Department to file suit. He said the action was an effort to challenge the schools' alleged agreement that no merit-based aid would be offered and that the schools would follow a common formula for calculating need-based aid.

Rill added, however, that the settlement does not prohibit a college from individually deciding to offer only need-based aid. Rather, it prohibits "a collusive establishment of a policy that aid will be based only on need."

The eight Ivy League schools have since released separate statements ensuring the continuance of need-based aid.

Thornburgh said he could not predict how much money students and their families would save as a result of the settlement because decisions on financial aid are now left to the individual schools. "What we have ensured," he said, "is that whatever benefit comes from competition is going to accrue to the benefits of parents and students and will not be precluded by collusive agreements among the universities."

The Justice Department will continue its two-year investigation of 46 other colleges and universities nationwide that also hold annual overlap meetings, Thornburgh said.

(Editor's note: Andrea Lambert contributed to the reporting of this story.)



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Freshmen can live at AEPi next year

(Continued from page 1)

Dorow said, "I understand it's a controversial decision." He added, "There's some rationale for not recognizing AEPi as a fraternity at MIT, but I don't think it outweighs the qualifications that AEPi has met to be approved housing for freshman."

IFC uncertain about AEPi's rush plans

The granting of freshman approved housing status to an ILG that is not a member of the IFC has raised questions as to how AEPi will conduct itself during rush. The IFC has traditionally established and enforced rush rules ranging from alcohol use in fraternities to when members may first give out "bids," or invitations to become pledges. But since AEPi is not a member of IFC, it is not bound by any of its rules.

Nevertheless, AEPi "will not slander other ILGs, will not wear letters in public before the freshmen picnic, and will not serve alcohol at any rush activities," Oleinick said.

Oleinick explained that once AEPi had been granted freshman approved housing by the Dean's Office, he met with Tewhey and agreed that the fraternity would follow certain rush guidelines.

"AEPi is not bound by any IFC rush rules," Oleinick said. However, the fraternity "will observe all IFC rules unless they clearly inhibit our ability to rush effectively and competitively."

Oleinick said he hoped that "when the other fraternities realize that we will not use any of the benefits to go against the IFC," they will "let us in" to the IFC. Some members of IFC remain concerned about AEPi's plans for the upcoming rush. In a special locker on Project Athena, IFC members have vented anger at the possibility of rush violations on the part of AEPi.

"I don't think it is at all unlikely that one or many of the IFC members will end up in a cross-rush situation against AEPi," wrote Phi Kappa Sigma Rush Chair Robert M. Polansky '92. "Although they can be expected to be friendly to us, as

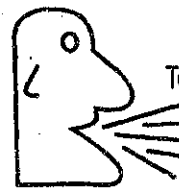
(Please turn to page 27)

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1733 to graduate today

(Continued from page 1)

vice president for research and professor of physics at the University of Chicago and vice president of Argonne National Laboratory. He has also taught at the University of Illinois and Brown University. While at Brown, Massey initiated Inner City Teachers of Science (ICTOS), a program to train science teachers for urban schools.



photo courtesy University of Chicago
News and Information Office
Walter E. Massey

Massey has served as president of the American Association for the Advancement of Science and vice president of the American Physical Society. He served on the board of trustees of the Rand Corporation and the board of directors of the MacArthur Foundation. He was chairman of the board of the Argonne National Laboratory/University of Chicago Development Corporation and a member of the boards of several companies.

Born in Hattiesburg, MS, Massey received his bachelor's degree in physics and mathematics from Morehouse College in 1958, and received both his master's and doctorate degrees in physics from Washington University in 1966.

Activities begin with procession

Commencement activities will begin at 9:45 am with the aca-

demical procession from 77 Massachusetts Avenue to Killian Court via Memorial Drive. Chief Marshall Christian J. Matthew '43, a member of the MIT Corporation and 1990-91 president of the Alumni Association, will lead the procession.

After MIT Corporation Chairman Paul E. Gray '54 opens the graduation exercises, Rev. Bernard J. Campbell, Catholic chaplain at MIT, will give the invocation.

Massey will then deliver the commencement address. Following his speech, Graduate Student Council President Michael D. Grossberg will salute MIT on behalf of the graduate student body, and Class of 1991 President Dawn L. Mitzner will present the senior class gift to President Vest.

Vest will deliver the traditional charge to the graduates, and then will join Provost Mark S. Wrighton in awarding the degrees. Vest will hand out the bachelor of science degrees and Wrighton the advanced degrees as two lines of students approach the stage simultaneously. The names of students will be announced in an alternating pattern as the degrees are handed out.

Following the program, President Vest will hold a reception for graduates and their guests — and for alumni of the 50th reunion Class of 1941 — at several locations around McDermott Court.

Today's Commencement is the first for Gray, Vest and Wrighton in their respective roles. After an extended search, Vest took over as 15th president on Oct. 15 of last year. At that time, Gray left the presidency to assume the chairmanship, which had been held by David S. Saxon '41. Saxon is now honorary chairman.

Vest was inaugurated in Killian Court on May 10.

Special hooding ceremony

Those students receiving doctoral degrees were hooded yesterday in a special ceremony. At the ceremony in Kresge Auditorium,

department heads or their representatives assisted the school deans in hooding the degree recipients.

At 5 pm today, a commissioning ceremony will be held for cadets and midshipmen in MIT's Army, Air Force and Navy Reserve Officers' Training Corps units alongside the historic frigate USS Constitution at the Charlestown Navy Yard Historical Park.

The speaker for the commissioning ceremony will be Vice Admiral J. Paul Reason, commander of Naval Surface Forces, US Atlantic Fleet.

notices

Listings

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

Meeting Times

The Tech Model Railroad Club meets every Saturday at 6 pm in 20E-214. Visitors are always welcome. For info, call x3-3269.

The MIT Outing Club holds office hours every Monday and Thursday from 5:30-6:30 pm in W20-461. Stop by and help plan, lead or participate in trips ranging from one day outings to month long treks. The club is especially active in rock climbing, kayaking, canoeing, backpacking, hiking, and winter mountaineering. Beginners are more than welcome. The club rents a variety of equipment at low rates and has two cabins in NH available for rent. Contact Dave at 492-6983.

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Reservations Recommended

AEPi to house freshmen

(Continued from page 25)

Neal Dorow said, "they will do what they have to in order to survive," Polansky continued.

Theta Delta Chi Rush Chair Michael S. Tovino '92 wrote, "I will not tolerate any unfair play from AEPi any more than I would tolerate it from any IFC house during Rush." He added, "If there are no rules governing them, I will feel the need to protect my house from their unfair advantage."

The actions of AEPi during last fall's rush, during which they violated some IFC rush rules, angered some of those writing in the locker and led them to conclude that AEPi might not rush within IFC guidelines this year. Fenway House. President

Mikalis E. Grunde '94 argued in the locker that the IFC should not be upset with the ODSA's decision, since the IFC realized that, after voting not to recognize AEPi in April, it would not have any power to control AEPi's affairs.

"We were warned before we voted that refusing their bid would put them out of our bailiwick, but we did so anyway," Grunde wrote. "There is absolutely no reason why they should follow IFC Rush rules, other than to be nice guys. . . ."

Some IFC members feel the Dean's Office, through its decision, has effectively rendered the IFC powerless. "What is the point of any of our decisions where we say that we should po-

lice ourselves?" Polansky wrote. "If [the Dean's Office does not] agree with them, they will just overrule them."

"I'm worried about the fact that the MIT administration is taking away every last right to govern ourselves that we have," Tovino wrote. "Right now, the IFC is a puppet organizations that exists solely because a [u]niversity with fraternities needs an IFC."

"When Dean Tewhey granted AEPi recognition," Lubowsky said, "I saw that not as an act against Delta Pi, but rather an act against IFC."

(Editor's note: Linda D'Angelo and Joanna E. Stone contributed to the reporting of this story.)

DPis to live in Back Bay

By Joanna E. Stone

At the same time the Alpha Epsilon Pi fraternity received notice of their approved freshman housing status, several members of the Delta Pi fraternity have decided to rent a house together in Back Bay for next year.

However, the apartment house they are considering renting, located on Marlborough Street, will not be a fraternity house. "It's just a bunch of undergraduates wanting to live together in a cooperative type situation," outgoing Delta Pi President Keith J. MacKay '91 said.

Approximately 20 people have agreed to live in the house, according to MacKay, and nine of them are not Delta Pi members. "So far it's about a 50-50 split. And we're still looking for more undergrad and graduate students," MacKay said.

MacKay stressed that living with other members of Delta Pi is not an integral ingredient for a close-knit fraternity. "As far as we're concerned, being without housing is a sub-optimal thing. But that wasn't what the fraternity was based on, the organization is more important than the house," MacKay said.

MacKay said he could not speculate on any positive outcome that would result from a number of Delta Pi members living together, since that was not the intended purpose of renting the house.

"It will not be a fraternity house and that street is not zoned for fraternity rental," MacKay said. He noted that were Delta Pi to rent the building for the purpose of housing only fraternity members, it would be in violation of Boston law "and we'd be out on the street and still responsible for the 15-month lease."

MacKay contended, "When Delta Pi finds a fraternity house and moves into it, it will be a very positive thing. But that hasn't happened yet and won't happen for several years until we can build a financial base," he said.

MacKay said that before Delta Pi members looked into leasing the house at 402 Marlborough St., they discussed their intentions with Neal H. Dorow, advisor to fraternities and independent living groups.

Dorow, however, would not comment on this. He would only say that MIT did not have any intentions of helping Delta Pi locate official housing in the foreseeable future.

"We don't have any commitment to obtaining single sex housing for males at this time," Dorow said. He noted that there was a "gross inequity" between the number of housing choices available for men as opposed to women at MIT.

"Logically, there is a need to pursue other options for women students at MIT. The same need isn't there to do so for men's groups."

Brothers rob campus ATM

(Continued from page 2)

charged with larceny over \$250, injuring a depository, possession of burglary tools and malicious destruction of property. They were then taken into custody by Cambridge police.

"After they were in custody and cuffs, that's when we searched them and found they had money on them, \$460. And Manlio had the cylinder lock in his pocket," Brown said.

"Manlio said it was his brother's idea. He said Alejandro got the idea from watching television and from hearing about people robbing the ATM machines. He believed he knew how to do it," Brown said.

The two brothers were arraigned on May 28. Two different public defenders were appointed to each of the brothers. Bail was set at \$10,000 surety or \$1,000 cash for Alejandro and \$3500 surety or \$350 cash for Manlio.

One brother expelled prior to break-in

Crispin Birnbaum, the assistant district attorney in charge of the case, didn't yet know what the reason for the differentiation in bail had been. "The charges against the two brothers are the same. The fact that the bail amounts are different suggests a prior history [for Alejandro]," she said.

According to sources, Alejandro had already been expelled from school before the ATM incident. Alejandro, a former Baker resident, was allegedly brought up on charges for stealing the credit card of a graduated Baker resident and charging it up to its limit, according to sources.

His stealing of this particular student's credit card seemed to be an isolated incident. James R. Tewhey, associate dean of student affairs, would not comment on the so-called "credit card problem", but did contend that if Alejandro had stolen other credit cards, he did not know about it.

Tewhey said he could not comment on what disciplinary action had been taken against the students, but could say that Alejandro could no longer be considered "associated with MIT", whereas his brother could be.

According to sources, Manlio has been suspended but not expelled from MIT. Tewhey said that Manlio had been part of the MIT Japan Program and that he was no longer a part of that program. In order to become affiliated with the MIT Japan Program, which places MIT students in Japanese corporate, government and university laboratories, a student must have a B grade average or better and must have no Institute history of disciplinary action.

Although disciplinary action had already been taken on Alejandro prior to this incident, he

was still "allowed to live on campus for a brief period" of time after that, according to Tewhey. However, he had not been allowed to finish out the term. And according to sources, he had not been allowed to remain at Baker House, but had instead been moved to Ashdown House.

After their arrest on Sunday, the Lopez brothers were not allowed to return to their respective dormitories.

"I was told on Monday that I had to replace the locks on the doors to their rooms in Ashdown and Baker," said Thomas Gately, assistant housing maintenance manager. "Before I changed the lock, the door [in Baker] had been fractured and damaged. He'd tried kicking the door in,"

Gately said. "So I put in a completely different lock so nobody had access. I heard other students were nervous, did not want him in the dorm."

There is only one copy of the keys to each of the Lopez' rooms, according to Gately. No one in the dorms has a copy of the keys, not even the night watchmen.

Campus Police accompanied the Lopez brothers to their rooms the following morning at 11:30 am so they could take out their belongings, Gately said.

The two brothers are said to be currently residing off campus in Cambridge. The date for the pre-trial conference has been set for June 6.

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ARA wins new contract

Accepts profit-loss system, beats out Marriott

(Continued from page 1)

were "never really in the running," according to one source, due to flaws in their plans for service and "unrealistic finances."

The RFP sent out by the committee stipulated that for the first year, the four dormitory dining halls would be open for dinner only, with required meal plans for house residents set at \$500 per semester. In addition, service at Lobdell Court and Walker Memorial Dining Hall had to be maintained.

According to one student on the committee, Michael S. Gull '92, ARA was the only company willing to "take the risk" and accept the profit-and-loss plan in its entirety.

ARA has proposed to turn Networks Restaurant into Hacker's Haven, designed as a place for students to "hang out," watch television and play board games, which would be available in the restaurant. The restaurant would feature diner-style food, and the walls would display pictures of famous MIT hacks.

Committee members differed on what they believed ARA's plans are for the house dining halls and Pritchett Lounge beyond next year.

Some members claimed that ARA's projections of future profit depend on closing the house facilities and Pritchett after next year. Others said they assumed ARA calculated their income based on all five years of the contract running like the first year, with house dining halls open for dinner only.

ARA also plans to continue the somewhat controversial Domino's pizza delivery service. The company hopes to expand to other delivery services, including buffalo wings and Chinese food.

Lawrence E. Maguire, director of housing and food services and chair of the search committee, said, "We wanted a food service as unique as MIT."

The profit-and-loss contract is believed to be the first of its kind in a university setting. Under the system, Maguire said, "ARA now has incentive to respond to the market. You're going to see salesmen out there now."

Associate director of food service John T. McNeill agreed. "Now they've got to please you

in order to make you spend your money. The community will see a 'can we be of service' attitude from both MIT and ARA." McNeill also stressed that the new system was a two-way street that would only work if there was cooperation between ARA and MIT as a whole.

Six administrators were on the 11-person committee. Ken Wisentaner, another associate director of food service, was procurement resource person to the committee, but was not a voting member.

The remaining five members gave higher overall scores to ARA. These were Maguire; McNeill; Stephen D. Immerman, director of special services in the office of the senior vice president; James R. Tewhey, associate dean for student affairs; and Do-reen Morris, assistant to the provost and to the senior vice president. The lone professor on the committee, Gordon M. Kaufman of the Sloan School of Management, also gave ARA his vote.

Of the four student committee members, only graduating senior Paul L. Antico '91 gave ARA a higher score. Robert H. Kassel G voted for Marriott, as did Emily R. Prenner '93. The fourth student, Gull, scored the two companies equally but said that although he wanted to vote for Marriott, that company "did not respond appropriately to the RFP."

Former Undergraduate Association President Antico admitted that he went into the meetings with a bias against ARA but that their proposal showed "they've now started to understand the needs of the MIT student." He and Prenner stressed that the current committee was planning to evolve into a standing UA committee on food service. "We're going to be a constant check on ARA," Prenner said.

Kassel, who was also on the food service selection committee of five years ago, said that ARA's proposal was "gimmicky" and not genuinely responsive to the needs of the community.

"You hear 'Hacker's Haven,' and you think that is a unique response to the needs of the community. But is that what MIT students really want? It shows that ARA is still treating MIT as if we are a big midwestern university. Maybe people at big mid-

western universities have time to sit around, eat french fries, and watch TV. MIT students just want decent food and hours that match the way MIT people live," Kassel said.

Kassel added that the Marriott proposal offered a 24-hour restaurant with more "basic" menu items rather than fast food. "[ARA's] marketing plan relies more on fancy logos, while Marriott was more concerned with better hours and service."

Kassel also questioned the company's incentive under the new plan. "ARA can make more money if they close the house dining halls. They have no incentive to make them work."

Kassel, a graduate resident tutor at MacGregor House, argued that it would be to the company's advantage to run the house dining halls poorly next year, so that there would be less objection to closing them down. "MIT is very bottom-line oriented. It's far easier to close unprofitable facilities than to find approaches which make them self-supporting."

Gull, the only committee member currently on a required meal plan, said that he was "disappointed, overall, with the quality of the proposals. ARA was the best of the mediocre."

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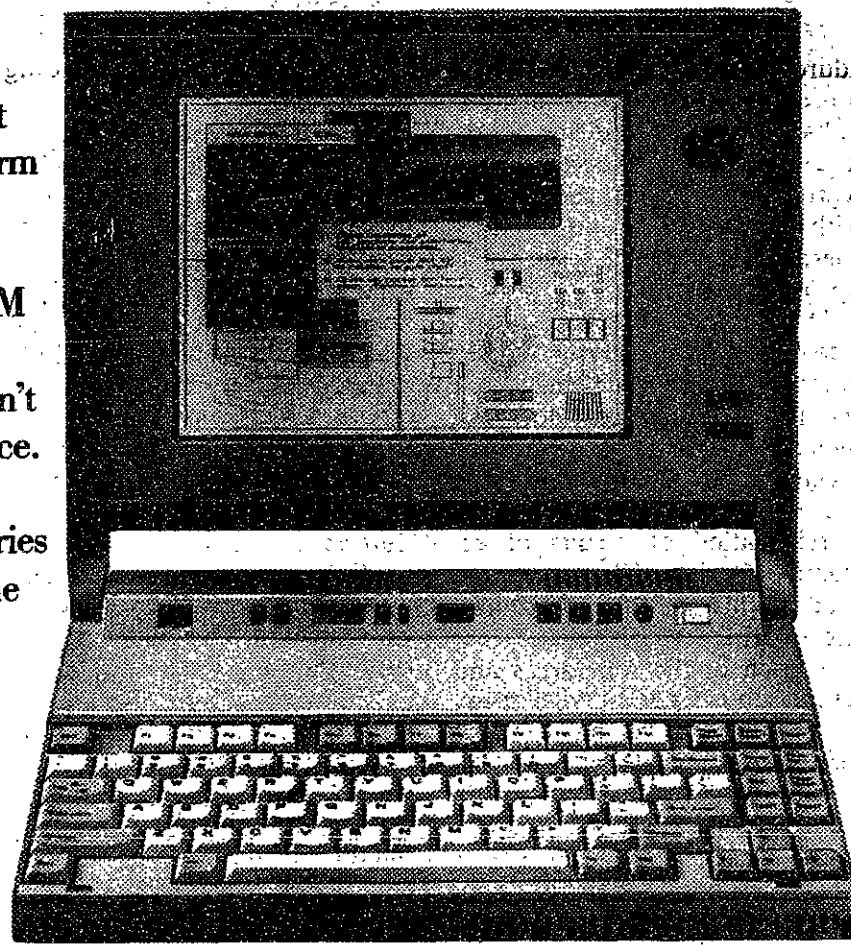
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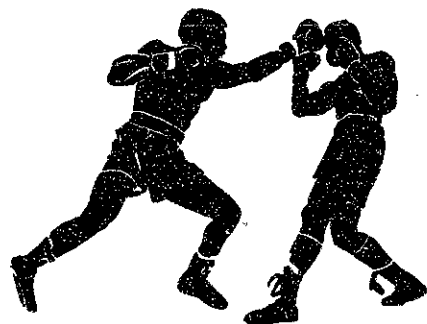


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Andrea Lamberti/The Tech

Starting June 10, eight Campus Police officers will rotate through the Campus Police's new bike patrol as part of their regular patrol assignments. The bike patrol will be in service through the end of November.

Fiji put on 3-year probation National reviews MIT chapter after theft

(Continued from page 1)

volved in the thefts, was not expelled.

The three are still members of Fiji, however, Moose said. While the fraternity "doesn't support what we did, they are still supporting us," he said. But Fiji corresponding secretary Marc A. Indeglia '92 said the three were no longer members; he added that membership could be given to the three at some point in the future.

The national organization of Fiji has conducted a membership review and taken other action within the chapter to address the thefts: Through a set of objectives outlined by the national for a chapter reorganization, the chapter will now be in more frequent contact with local alumni and the national representatives, both of whom will take on a more supervisory role, according to Robert E. Baney III, Fiji national representative.

MIT has placed the chapter on a three-year probation with no restrictions, according to Neal H.

Dorow, advisor to fraternities and independent living groups. MIT concurs with the national's actions thus far, Dorow said. He added, "Our expectation is that national and the alumni are going to follow through with commitments they made to the chapter."

Dean's Office recommended expelling students

Moose said he and Fortunato were not allowed to complete their classes but were expelled with the option of petitioning for re-admission after June 1, 1995.

He declined to comment on the fairness of the action MIT has taken against him, or why Glotfelty was not expelled as he and Fortunato were.

But he said "the CPs are trying to link us to a bunch of other incidents that we weren't involved in." He added that while the three had been accused of stealing over \$70,000 — or "everything that's missing from MIT" — they "didn't have anything to do with most of it."

Moose said the thefts totaled about \$40,000.

The Campus Police were led to members of Fiji after being tipped off by an informant in January. Campus Police were investigating computer thefts at MIT since August 1990.

Moose said the three had returned some stolen equipment that the Campus Police had no lead on, and "some equipment they didn't even know was stolen."

Moose denied that the three had any intention of selling the stolen property. The computers were treated as personal property, he said.

Tewhey said he could not comment on why punishments of varying degree were meted out, but said it would be a "reasonable conclusion to draw" that the expelled students had prior offenses or were on probation when they were linked to the computer thefts.

"There were a set of meetings with a group of students that occurred in the [Dean's Office with Dean for Student Affairs Arthur C.] Smith and myself. Out of those meetings came a set of recommendations to the president, and the president acted on those recommendations," Tewhey said. The meetings occurred in the first part of May, he added.

Tewhey said, "It was a serious matter, and it was dealt with seriously."

Fortunato, who has appealed the Dean's Office recommendation for expulsion, and Glotfelty did not return telephone calls made over the past week.

Fortunato, Moose and Glotfelty had paid full rent and were

allowed to stay in the fraternity for the duration of the spring semester, Indeglia said. Moose said he may live in the house over the summer.

National interviews members as part of plan

In response to the thefts, the presence of stolen equipment in the fraternity house, and the subsequent expulsion from MIT of two fraternity members, Fiji's national organization has conducted a membership review, Baney said.

"While we recognize that . . . there were three men involved," Baney said, "we also recognize that the chapter has the responsibility to be their brothers' keeper and keep any eye out for things that might be happening."

As part of its "redevelopment plan," Baney said, the national organization interviewed every member and asked them to commit or decline to commit to a set of expectations, with the stipulation that none of the brothers would be involved in any thefts in the future.

According to Indeglia, every member of Fiji "recommitted themselves to the values [and] the oaths" made by members when they pledge and are later initiated into the fraternity. All were invited to continue to be a part of Fiji, he said.

Baney said the interviews — during which each brother met with six or seven graduate members — included questions about whether the undergraduate brother knew about the stolen equipment and, if so, why he did not act on that knowledge. Both Baney and Indeglia did not know how many brothers were aware of the stolen computers.

The interviews also focused on members' general attitude toward the fraternity, each member's commitment to the future of the fraternity and his record of past accomplishments both within the fraternity and at MIT, Baney said.

National provides chapter with set of objectives, goals

In addition to the membership review interviews, the national required the chapter to comply with a set of objectives for reorganization. As a part of those requirements, the Board of Control, a group of MIT and non-MIT graduate members of the fraternity will provide "supervisory and disciplinary authority over the chapter," Baney said.

The chapter has also been required to develop a specific plan of action with objectives, deadlines and target dates on how its members are going to operate the chapter in the future, Baney said.

(Please turn to page 31)

Group urges foreign ties

(Continued from page 2)

transfer of knowledge to the community at large, especially to American industry."

Aiding American industry, however, does not mean excluding foreign companies or personnel from participating in Institute activities, the report states. In fact, at several points the report argues that foreign ties should be enhanced to serve the national interest.

Specific issues addressed

The study group specifically addresses four areas in which questions about international linkages arise: (1) students, alumni and faculty; (2) access to research at MIT; (3) cooperation with institutions in other countries; and (4) public service and other programs.

The subject of access to research at MIT is further broken down into seven sub-categories: (1) visiting faculty, post-docs and research scientists; (2) support of research; (3) faculty consulting and off-campus visits; (4) commercialization of results of research; (5) gifts; (6) licensing of MIT patents, start-up companies; and (7) ILP.

In each of the four areas and seven sub-categories, the study group supports the inclusion of foreign students, alumni, and corporations and other institutions.

Regarding ILP, for instance, the report notes that while 121 of the 245 corporate members were foreign (as of March 1991), US firms have five times as many contacts with faculty outside ILP as through it.

According to the study group, "This explains in part why foreign companies tend to have a higher level of activity in the ILP than their American counterparts, for those companies have greater difficulty (for cultural, linguistic and geographical reasons) than American firms in developing their own direct relationships with the faculty."

Founded in 1948, ILP provides firms "more efficient access" to current MIT research. MIT charges a fee, though the access firms receive for their fee is not exclusive.

ILP became a focus of controversy during the summer of 1989 when a congressional subcommittee investigated the program's ties to foreign firms. The chairman of the House Subcommittee on Human Resources and Intergovernmental Affairs, Rep. Theodore S. Weiss (D-NY), singled out ILP as a technology transfer program that sells the results of

federally financed research to foreign firms.

The study group, appointed in 1990 by then Provost John M. Deutch '61, has in part been attempting to address the concerns raised by the congressional subcommittee.

"In the past few years there has been a growing concern that our ties to foreign companies may be hurting US economic interests," Skolnikoff said. "It was becoming an increasingly sensitive political issue."

Despite these concerns, the report recommends expanding some international interests. For instance, the report states that MIT's Tokyo office, established over 10 years ago to facilitate interaction with Japanese firms and government, "offers an opportunity to increase diffusion of knowledge about the Japanese scientific and technological community." And for this reason, the report recommends that the Tokyo office's role be expanded and that consideration be given to establishing a similar office in Europe.

The Tokyo office has been seen by some as "causing MIT to favor Japanese companies in the ILP," the report states.

The study group also recommends that the "international dimension" of MIT's undergraduate curriculum be strengthened. "Our undergraduate education should be broadened," Skolnikoff said. "Students need to have a better sense of the world they live in."

While the study group reaf-

firms MIT's international relationships, it also calls on MIT to increase its efforts to aid the national economy. For instance, it recommends that MIT faculty try to further facilitate transfer of technology to American industry. In addition, the study group calls on MIT to contribute to the improvement of American science education at the primary and secondary school levels.

In the future, when questions regarding the appropriateness of international activities arise, the views of the Faculty Committee on International Institutional Commitments should be sought, the report states.

In addition to Skolnikoff, the study group was composed of Rudiger W. Dornbusch, professor of economics; Arnoldo C. Hax, professor of management; Nancy H. Hopkins, professor of biology; Eric C. Johnson '67, director of corporate relations; Arthur K. Kerman PhD '53, director of the Laboratory for Nuclear Science and professor of physics; Philip S. Khoury, acting dean of humanities and social science; Richard K. Lester PhD '80, professor of nuclear engineering; Nicholas P. Negroponte '66, director of the Media Laboratory and professor of media technology; Jack Ruina, professor of electrical engineering and computer science; Richard J. Samuels PhD '80, director of the MIT Japan Program and associate professor of political science; Kenneth A. Smith '58, former associate provost and vice president for research; and staff-member David Hart.

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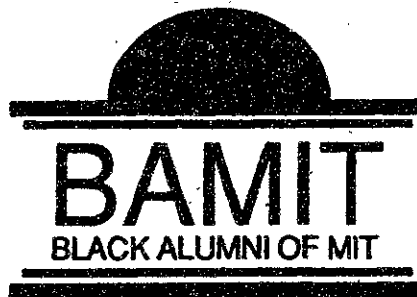
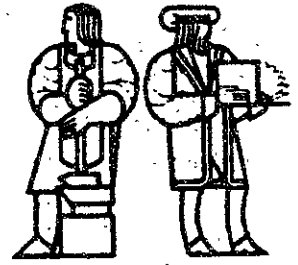
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Two expelled for stealing computers

(Continued from page 29)

The chapter has already submitted a plan, which includes topics like "defeating apathy in the fraternity," retaining members' ideals, and restructuring the Fiji committee system, the pledge education program, a successful fall rush and "insuring that theft is not a part of the fraternity," Baney said.

The third objective requires that a director of redevelopment from the national will visit the chapter more frequently than the regular visits of Fiji national representatives. This director provides "more frequent attention to chapters we feel are in need of that attention," Baney said.

The national is conducting a search for a graduate education advisor, an MIT graduate student who would live in the fraternity house and work with fraternity members "on chapter operation, chapter management, [and] also on educational and leadership development." The national has not yet found a graduate student who is a member of Fiji for the position. "If that person is not there, it may be difficult to consider any alternative right now," Baney said.

The national is requiring the chapter to conduct a values and

ethics seminar each year, with an MIT professor or area professor serving as facilitator. Each year, the national will seek verification from the chapter that members are holding a "solid, legitimate seminar" during which they can "really learn some things" from the facilitator, Baney said.

The chapter will hold a retreat next fall with at least 90 percent of the chapter in attendance along with national representatives; discussions will include the computer thefts but the group will focus on developing a calendar for the chapter.

Lastly, chapter representatives will make a presentation on the theft to a 600-person meeting, the Fiji leadership academy, in the fall, Baney said. The representatives' presentation will deal with the computer thefts.

Indeglia said, "as a chapter [we] are going to do everything we can to fulfill [the objectives]."

Indeglia said the feeling of members of the MIT chapter is, in general, "to move ahead. We have a lot of people willing to help out so that we can be a better fraternity than we already are."

(Editor's note: Joanna E. Stone contributed to the reporting of this story.)

notices

Announcements

Project Contact: Undergraduates who are interested in communicating with high school students (and guidance counselors) about what it is like to be an MIT student are encouraged to join Project Contact. For more information please contact the Educational Council Office, Room 4-240; x3-3354.

The Cambridge Dispute Settlement Center has announced that it is making its service of mediating disputes available to roommates in the Cambridge area. Those interested in using CDSC's service to resolve a roommate dispute or any other dispute should contact the mediation center at 876-5376.

The Boston University Astronomy Department sponsors **Open Observatory Night** every Wednesday from 8:30-9:30 pm. For more information call 353-2360.

Harvard University Graduate School of Design is sponsoring lectures. For more information call 495-9340.

All first-time student loan borrowers (Perkins, Technology, or Stafford Student Loans) are required to attend a loan counseling session. Please contact the Bursar's Office for a schedule of the sessions.

The Science and Humanities Libraries (Hayden Building Libraries) are open from noon Sunday to 8 pm Friday — 24 hours a day — and from 8 am to 8 pm on Saturday. From midnight to 8 am access to the libraries is limited to members of the MIT community. Circulation and reference services are not available during restricted hours.

The Off-Campus Housing Service welcomes any member of the community who either has available housing or who is searching for housing to contact our office in Room E32-121, x3-1493.

The "Statement of Registration Status" is still required of all male students who are expected to register for the draft, if they want to receive federal financial aid. Women, underage students and those who have completed the statement in previous years do not have to file statements.

MIT requires male students who have completed the statement by indicating they are "underage" to submit the statement annually until they have registered.

Los Niños, a non-profit community development organization with projects along the Mexico/U.S. border, seeks applicants for its summer internship program. Interns teach summer-school classes in low-income Mexican communities, and take part in educational experiences concerning Mexico and the border region. For more information call 661-6912.

Study Help

The professional tutor staff of the MIT Writing and Communication Center (14N-317) will be glad to consult with you on any writing or oral presentation project (papers, theses, letters, etc.) from 10 am-6 pm Monday through Friday. You may either phone for an appointment (x3-3090) or just drop in. In addition, workshops for those for whom English is a second language are held in the Center on Wednesdays from 6:15-7:15 pm. All services are free.

Free Information

Do you have questions about HASS-D(istribution) subjects and categories, HUM-D(istribution) subjects and fields, concentration requirements or procedures, HASS Elective subjects or HASS Minor programs? Come to the Humanities, Arts, and Social Sciences Information Office, 14N-408 for help with anything to do with the HASS Requirement. We are open 9-5. Stop by or call us at x3-4441.

The Office of Consumer Affairs and Business Regulation has prepared a pamphlet called "College Consumer" that summarizes students' consumer rights. For a free copy, write the Office of Consumer Affairs and Business, One Ashburton Place, Boston, MA 02108 or call 727-7755.

There is a Food Addiction Hotline being provided by the Florida Institute of Technology and the Heritage Health Corporation. This hotline is to provide information about food addiction, gather data about the nature and extent of food addiction, and raise the awareness in the population that food addiction exists. The hotline number is 1-800-USA-0088.

CALL, a toll-free information service, provides free information about colleges, graduate schools, financial aid sources, and career opportunities. CALL operates Monday through Thursday, 9 am to 9 pm; Friday and Saturday 9 am to 5 pm; and Sunday 2 pm to 6 pm at 1-800-442-1171. Counselors are also available on a walk-in basis at the Higher Education Information Center located at the Boston Public Library, 666 Boylston Street, next to the Copley Plaza.

Miscellaneous

Asher Associates is looking for a copy of your best letter of recommendation and top graduate essays written for law school, medical school, graduate business programs, and doctoral, postdoctoral and fellowships programs for possible publication in their forthcoming book, *Graduate Essays: What Works, What Doesn't, and Why*. Examples of creative essays, and essays from unusual or borderline candidates welcome, too. Info: Patty O'Keefe or Donald Asher at (415) 543-2020 or (415) 543-7130.

"Senior Days" are back at the New England Aquarium. Until May 20, all senior citizens will be entitled to free admission to the Aquarium on Mondays from 12:30-4 pm. The Aquarium is wheelchair accessible. Info: 973-5200.

Council Travel Services is offering student tours of the Soviet Union. For a free brochure and information, contact Council Travel Services at the Student Center, W20-084 or by calling (617) 225-2555.

A new Pentagon Audit Project provides detailed listings of military contracts awarded to local companies and colleges across the United States. The system can help requesters determine what weapons systems are made or based in their area, or find out whether companies in which they own stock are doing military-related work. For more information contact Paul Brink at (215) 241-7063.

The Church of Jesus Christ of Latter-Day Saints holds Sunday services at 3 pm in Cambridge. For more information, call Elder Butler or Elder Alder at 648-5605.

Andy Warhol was Right! You can be famous for 15 minutes.

On Saturday afternoon, June 15, from 1:30 to 4:30 pm, WMBR-FM Radio is having an open house for all MIT students who are interested in doing radio this summer.

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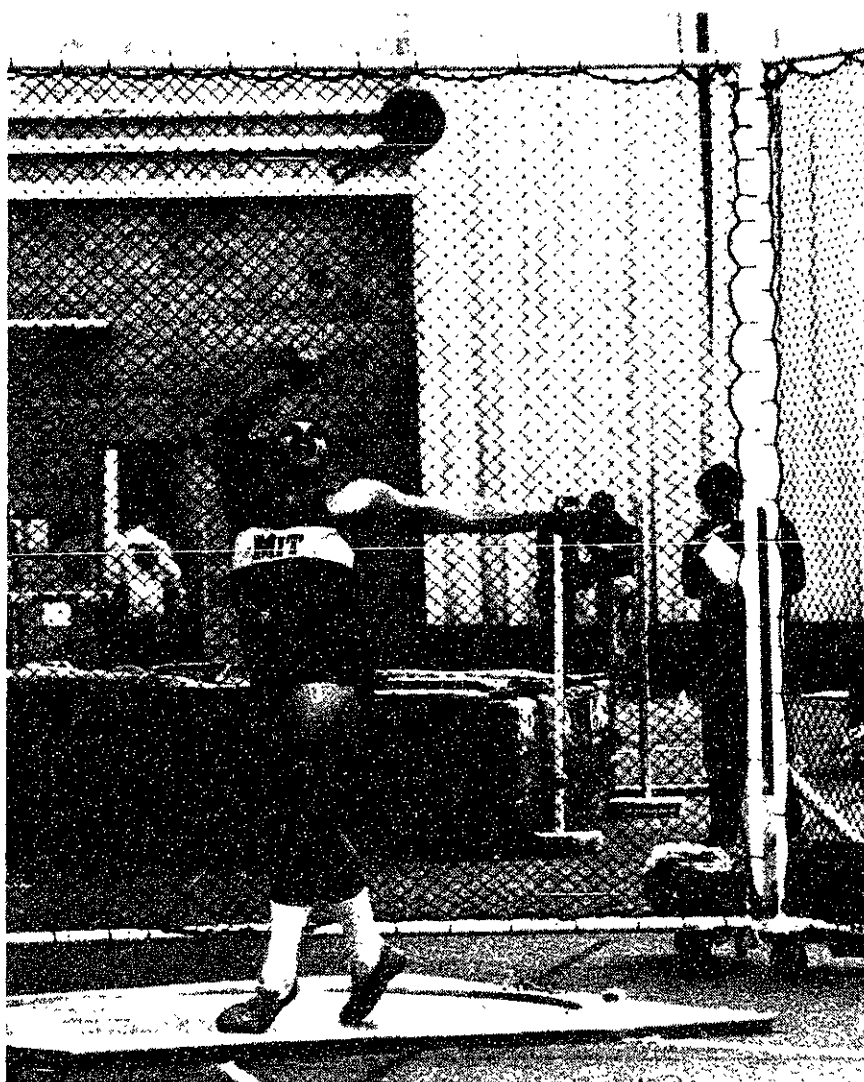
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sports

Lacrosse ties for title



David Rothstein/The Tech

Jean-Paul Clarke '91

Clarke, Dunzo take 5th, 7th at nationals

Sports Update

Track team has two All-Americans

The outdoor track and field team has two new All-Americans among its ranks, as senior co-captains Mark Dunzo and Jean-Paul Clarke recently returned from the NCAA Division III national championships, held May 22-25 at Baldwin-Wallace College in Berea, OH.

This year's competition proved tougher than last year's. Clarke took fifth place in the hammer throw with a best toss of 177 feet, 5 inches. Clarke took second in last year's competition.

Dunzo, the defending indoor 400-meter champion, snuck into this year's outdoor final as the eighth seed after preliminary trials, then managed to take seventh place in the finals, in a time of 48.58 seconds. Dunzo, the recipient of this year's Howard W. Johnson Award, given to the outstanding senior male athlete, received his eighth All-American honor.

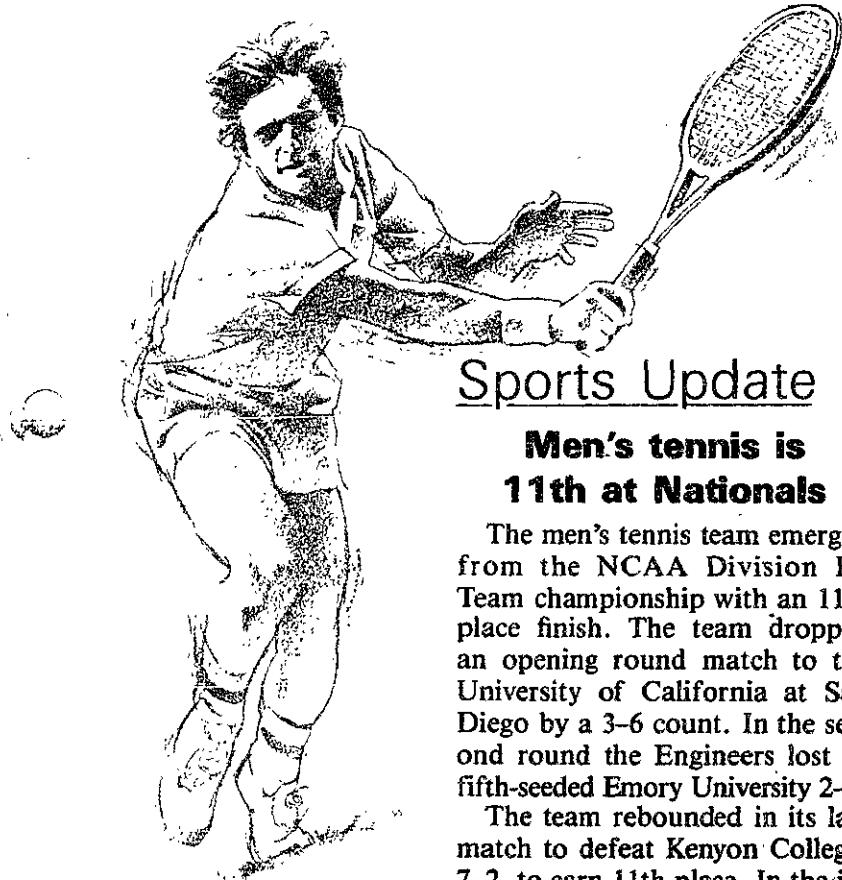
Baseball, softball players cop honors

Peter Hinteregger, a sophomore pitcher on the baseball team, has been named the outstanding player in the recently completed Constitution Athletic Conference Tournament. Hinteregger pitched the Engineers to two victories in the tourney. In addition, Hinteregger was named to the Greater Boston League All-Star team as a utility player.

Hinteregger was also recently named a third-team selection on the All-New England team. Hinteregger led the Engineers with a 6-1 record and a 2.69 earned run average.

Senior outfielder Scott Williams has been named to the GTE College Sports Information Directors of America (CoSIDA) Academic All-District team.

Softball player Stephanie Ragucci '91 was named GTE CoSIDA Academic All-District in that sport. Ragucci was also a New England Women's 8 All-Conference selection and the team most valuable player.



Sports Update

Men's tennis is 11th at Nationals

The men's tennis team emerged from the NCAA Division III Team championship with an 11th place finish. The team dropped an opening round match to the University of California at San Diego by a 3-6 count. In the second round the Engineers lost to fifth-seeded Emory University 2-7.

The team rebounded in its last match to defeat Kenyon College, 7-2, to earn 11th place. In the individual competition senior Alexis Photiades became only the second tennis player in MIT history to earn All-American honors.

Compiled by David Rothstein and the Sports Information Office

By Garret Love

The men's varsity lacrosse team finished the year with a winning season, compiling an 8-5 record and earning a share of the Pilgrim League Championship.

The Engineers established a 6-1 league record, bouncing back from last year's 1-5 league record and beating league opponents Babson College, Assumption College, Curry College, Western New England College, Massachusetts Maritime Academy and Nichols College, and dropping a late-season game to Roger Williams College.

With their record the Engineers tied for the championship with Roger Williams, also 6-1 (due to a loss to Babson who, at 5-1, was not awarded a share of the crown), and left the dismal 2-10 record of the 1990 season behind.

The Engineers were headed up by MIT head coach Walter Alessi, who in 1990 was recognized by the NCAA with a posi-

tion as a coach in the North-South national All-Star game, and by assistant coach Tom Dorf '88, who as a senior played with the last MIT championship team in 1988.

First-line midfielder Jeff Feldgoise '91 was named a member of the Pilgrim League All-Star team and Ken Chay '91, first-line midfielder who led the team in assists, represented MIT in the New England East-West All-Star game, held at MIT on May 19. Feldgoise and Chay led what was considered to be one of the strongest midfield lines in New England for much of the season.

Second-line midfielder Felipe Calderon '91 and attackman Paul Dans '91 helped to round out what was probably the most balanced scoring in the league.

Two seniors anchored the MIT defense and were both recognized as Pilgrim League All-Stars. Defenseman Garret Love '91 was named the team's most valuable player; he also represented MIT

in the New England East-West All-Star game, replacing an injured Matt Lee '91, the team captain.

At season's end, goalie Ken Nimitz '91 received the Ben Martin award for "spirit, dedication and determination."

Despite the large number of graduating seniors — seven, including four four-year players — the 1992 team should still be a strong contender in the Pilgrim League.

Team high-scorer Rob Silva '93 will return again to anchor the Engineers' attack. Midfielder Stephan Feldgoise '92 and defenseman Richard Oh '92, both starters in 1991, will return as co-captains in 1992. Returning senior Andrei Saunders '91 and starting defenseman Peter Santoro '93 will both be important as will freshmen standouts Pat Coady '94 and Ryan Blanchette '94.

(Garret Love '91 is a member of the men's lacrosse team.)

Sailing teams end season

By Mike Binnard

The men's varsity sailing team wrapped up the 1990-91 season with a fifth-place finish at the New England Team Race Eliminations, held at the Coast Guard Academy in late May.

The season had several high points for the varsity team. Skippers Andreas "Leeward" Lewin '91, Bill Hall '91 and Mike Bowers '92 won the Greater Boston Area Dinghy Championship. The team also had good showings at the New England and Atlantic Coast Championships. The team was ranked 17th in the nation.

Last fall's sloop team (Scott Davie '91, Mike Binnard '92, Daniel Alvarez '93 and Lewin) finished fifth in New England. The four sailed well in heavy winds, but had less luck in light conditions.

The women's team also had a good year. Paula Lewin '93 (Andreas' sister) and Gina Midgah '93 won their division at the fall New England Championship. This was also the first year the MIT women's team, which, like the men's team, was ranked 17th nationally, has qualified for the Atlantic Coast Championship.

Andreas and Paula Lewin were named MVPs of the varsity men's and women's teams, respectively. Binnard was voted outstanding crew, and Davie was most improved.

Looking towards next year, varsity coach Skip Whyte said, "It'll be hard." But he thinks the team has the potential to make another good showing.

(Mike Binnard '92 is a member of the varsity sailing team.)



The MIT sailing team (#15) sails in the Oberg Trophy Invitational, held in October.

Anne Samimis/The Tech