

Continuous  
News Service  
Since 1881

Volume 106, Number 4

# The Tech

MIT  
Cambridge  
Massachusetts

Friday, February 14, 1986

## MIT pays tribute to McNair Cheryl McNair reads astronaut's message

By Thomas T. Huang

The MIT community Wednesday mourned the loss of Ronald E. McNair PhD '76, who perished with six others in the explosion of space shuttle Challenger two weeks ago. President Paul E. Gray '54, Cheryl McNair and eight others delivered quiet, emotional eulogies as they reflected on a life cut short.

*Text of eulogies delivered by President Gray and Dr. Michael S. Feld '63, page 15.*

They spoke of the world's first jazzman in space. He was a man who saw beauty in the smallest things, recalled Shirley A. Jackson '68, the first black woman to earn a PhD at MIT.

At times, Gray's voice cracked as he read his remarks: McNair "set extraordinary standards for himself — higher than anyone else would dare set for him — and then met and exceeded those standards. . . . We are diminished — the nation is diminished — because of that terrible moment in the flight of Challenger."

He was not a dreamer, but a man who made plans. Most of all, he was not invincible, but deeply human, a man who recognized his limits, but dared to go a bit beyond them, "hanging it over the edge," said MIT physics professor Michael S. Feld '63, McNair's graduate thesis advisor.

"Hanging it over the edge means setting the most daring personal goal you can possibly hope to reach, and then devoting all your powers of mind and body and spirit to achieving it," Feld said. "Ron believed in being daring — not, of course, in taking irresponsible risks, but daring to go to the limits of one's abilities and perhaps a little beyond."

Clarence G. Williams, special assistant to the president, presided over the memorial service. Reverend LeRoy Attles of the St. Paul African Methodist Episcopal Church conducted the invocation and benediction, and the MIT Gospel Choir performed two musical interludes.

Saxophonist

Cheryl McNair said softly, gen-

tly: Boston "is a special area to me. For as you know, if you knew Ron and I well, this is the area where we met. This is the area where we were married."

She expressed her appreciation of the love and care she has received from all over the world. "Although it was a great tragedy, [I want you to know] how beautiful it all is to see how people can work, how they can live together, how well they can all really express themselves and give together." (Please turn to page 2)



AP Laserphoto  
Cheryl McNair, wife of Dr. Ronald E. McNair PhD '76, at Wednesday's memorial service.

## East Campus resident victim of arson attempt

By Earl C. Yen

The MIT Campus Police are investigating a Feb. 9 vandalism incident involving a homosexual student's dormitory room, according to James Olivieri, chief of Campus Police.

At 3 am last Sunday an unidentified person ignited paper strips and slid them under the East Campus resident's door, Olivieri explained. The resident immediately awoke and doused the fire with water, he said.

"From the size of the fire, it turned out that the situation wasn't dangerous to him [the resident]," Olivieri said.

The setting of the fire is still a serious offense, Olivieri warned. The offender, if caught, will be charged with committing arson in a dwelling, he said.

The culprit also inscribed anti-gay graffiti on the resident's door, Olivieri said.

"It was a situation of homosexual harassment," he said. "We are continuing the investigation." He refused to say whether the Campus Police have identified any suspects.

Brian K. Harvey '69, junior housemaster of East Campus,

called the incident "really contemptible.

"Something that's so deliberately hurtful is just hard for me to understand," Harvey said.

When asked if an East Campus resident committed the offense, Harvey said, "I would like to think not." East Campus doors are unlocked 24 hours a day.

The incident is the first reported case of "harassment of a person based on prejudice of a group" this year at East Campus, Harvey said.

"I think the Institute as a whole needs to do more about raising the consciousness of prejudice, and especially prejudice against homosexuals," Harvey said.

When the community discusses anti-gay prejudice, "it helps people to understand that it's no better than any other kind of prejudice," he said.

Our society is not as sensitive to homosexual harassment as it is towards racial harassment, Harvey claimed. For example, the use of a racial epithet is a much greater social violation than the use of a gay insult, he said.

## Engineering goals specified

By Katie Schwarz

Undergraduate engineering education should stress fundamental science, design experience and the humanities, according to a description of the "Goals of Engineering Education" prepared by a faculty commission to guide curriculum reform.

The statement of the Commission on Engineering Undergrad-

uate Education, chaired by Associate Dean of Engineering Jack L. Kerrebrock, lists eight specific objectives for the MIT curriculum, pursuant to the overall purpose of producing graduates qualified for "leadership in technology and for professional excellence." [see statement, in box.]

The commission will use the eight objectives to evaluate the

current engineering program and propose changes. These eight points "[spell] out what has to be accomplished in educating undergraduates," said Hermann A. Haus, professor of electrical engineering and a member of the commission.

The statement is intended not as a new educational philosophy but as a standard against which MIT can measure itself, Haus explained. "The general goals haven't changed," he said, but "we are asking, 'Are we really doing our best to meet [them]?'"

Incorporating more "realistic" design projects into the curriculum is a particular area of interest for the commission, Haus said. Undergraduates should experience "what a person would encounter in industry," he continued.

Students must receive a foundation for lifelong learning so that they can "lead change, rather than follow it," Haus continued. The commission also wants to raise the "visibility" of the humanities and of verbal skills, he said, and it feels that students should consider their humanities subjects as important as their technical ones.

The commission put together its goal statement after consulting with departmental faculty committees from each depart-

(Please turn to page 2)

### Goals of engineering education

(Editor's note: the following statement was released by the Commission on Engineering Undergraduate Education.)

Undergraduate education in engineering at MIT should prepare its graduates for leadership in technology and for professional excellence, through an education in science and engineering, with an emphasis on fundamentals, in essential partnership with the social sciences and the humanities, for the advancement of engineering and the betterment of society.

To this end, all graduates should:

- have obtained a firm foundation in the sciences basic to their technical field;
- have begun to acquire a working knowledge of current technology in their area of interest;
- have acquired the skills and motivation for continued self-education;
- have had an opportunity to exercise ingenuity and inventiveness on a research project;
- have had an opportunity for engineering synthesis on a design project;
- have developed verbal and written communications skills;
- have begun to understand and respect the economic, political, social and environmental issues surrounding technical developments; and
- have begun to understand the diverse nature and history of human societies, as well as their literary, philosophical and artistic traditions.

## MIT looks at food companies

By Ben Z. Stanger

MIT may replace its present food services operations with an outside food management company which would supervise all dining facilities.

A new committee, headed by Director of Housing and Food Services Gene Brammer, will soon begin a search for such a company. The committee must first decide whether a management company is needed and then choose the company, Brammer said. The process should be finished by mid-June, he added.

Food management companies have the ability to survey their client's needs and respond to them, he continued. MIT is forced to make changes in dining services from scratch because it lacks the experience of the management companies.

MIT does not currently have the resources to ask "what do people really want [in food service]," according to Brammer.

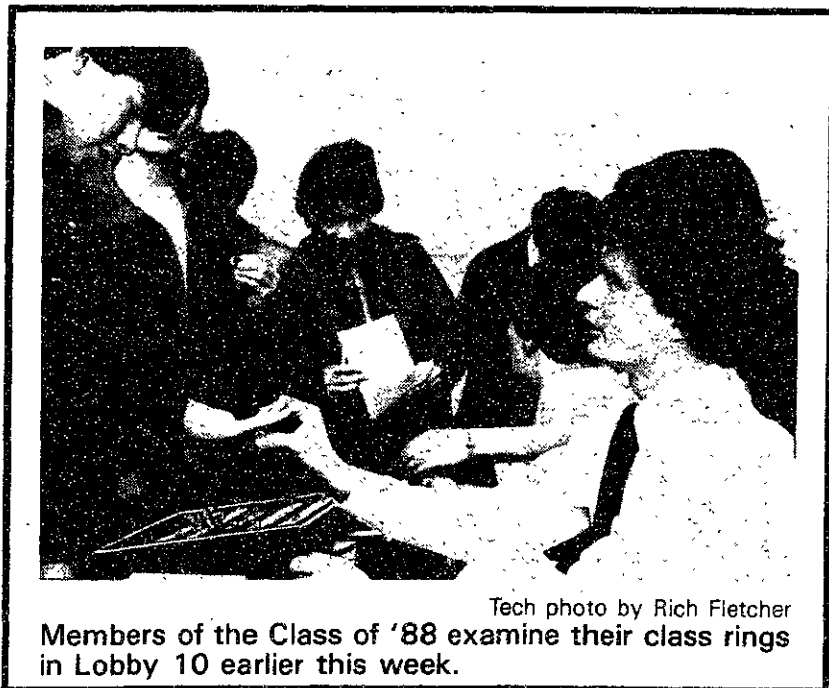
The committee, which should be completely chosen sometime

next week, will hold a bidder's conference in mid-March, in which interested companies will propose changes in the MIT dining facilities. Companies which have already expressed interest include: The Marriot Corporation, which runs the Faculty

Club; Seilers Corporation, which operates the on-campus vending machines; ARA Food Services; and The SAGA Company, Brammer said.

After bids have been taken, campus dining units will com-

(Please turn to page 2)



Tech photo by Rich Fletcher  
Members of the Class of '88 examine their class rings in Lobby 10 earlier this week.

## inside

Women's careers in science. Page 2.

Glengarry Glen Ross: Mamet's study in the futility of life. Page 11.

The frenetic motion of Yulla in the Compton photographic exhibit, *Images of Infinity*. Page 10.

Forbidden Broadway continues to mock the real one. Page 10.

The Engineers defeat the Crimson in NCAA volleyball. Page 20.



Tech photo by Rich Fletcher  
Robert W. White '88 on his way to winning the pole vault during Saturday's varsity track meet vs. Bowdoin. MIT went on to win 84-48. MIT's junior varsity indoor track team defeated Andover Wednesday 68-35.

## McNair was committed to excellence

(Continued from page 1)

er" no matter what their race or color.

Her husband intended to complete on the January mission a message he had begun during his first shuttle flight in 1984, but which had been cut off. Cheryl McNair read her husband's message and played a tape of him on saxophone — silk-smooth runs which filled Kresge Auditorium for the first, and perhaps last, time.

McNair wrote: *Over the past 25 years, space travelers have repeatedly spoken of the astounding beauty of earth as seen from the unique perspective of space. In the next few years, NASA will be flying private citizens equipped with the talent and expertise that will enable them to better describe the space experience. In the meantime, you're stuck with people like me: scientists, pilots, engineers.*

*It just so happens that I brought along my soprano saxophone. . . . I wish to present to you a medley of songs . . . dedicated to every man, woman and child in every continent on the planet. [The first song] offers a solution to the malice that exists among us. The second song addresses what we as individuals can do to make the world a better place for everyone.*

The songs he played were "What the World Needs Now is Love, Sweet Love" and "Reach Out and Touch Somebody's Hand."

### "Stretch your wings"

In the early 1970s, Gregory C. Chisholm '73 of MIT's Department of Mechanical Engineering wondered if the world was coming apart. There were only a handful of black students at MIT at that time, and they all knew each other, he said. "We all recognized the tenuousness of our positions in the country, in the city, and at the Institute. Holding on and securing ourselves here was no mean task."

Some rebelled. Some denied there was a problem. Others "looked to the future, like Ron McNair, who made a downpayment with his commitment to excellence." At a time when only 50 percent of the entering class of black students graduated four years later, McNair, with his strong desires, "survived and thrived," according to Chisholm.

He survived to later help John B. Turner, associate dean of the graduate school, recruit minority

students in high school. Turner told a story that he and McNair often used, about an eagle who thought he was a chicken. The chickens had wings but could not fly. They had mouths but could not speak. They lived together but did not protect each other. Then, one day, the eagle saw a flock of eagles fly by.

Turner said, "He felt a power he had never felt before, felt a pride never experienced. He ran across barnyard, flapped his wings, and left the chickens on the ground, soaring over the trees and mountaintops."

"Black students, minority students: You're not chickens. You're eagles. You don't belong on the ground. You're not dumb. You're not ugly. Stretch your wings and fly to the sky."

### Sense of purpose

McNair was a very focused man, Jackson said. He held a clear sense of purpose, a strong belief in himself and others, and what they could do if they believed in themselves.

Professor S. James Gates '73 of the Department of Physics and Astronomy at the University of Maryland said McNair also saw the problems and people that most of us, in our rush with life, do not take the time to look at.

McNair's quiet courage helped him confront his own boundaries and limitations and also to confront those of environment — racism and sexism. McNair had the courage to go beyond these things. "You can't be afraid of trying. You just give it your best shot," Gates said.

Dr. Michael E. Fant '73 of the Southwestern Medical School in Dallas, TX, said that McNair received a chance to study at MIT as part of an exchange program during his junior year. At first, he did not want to come, but then he realized he was running away from one of the largest challenges of his life.

McNair realized that "the most severe limitations are the ones we place on ourselves, that we must strip clouds of doubt and self-worthlessness," Fant said.

### Brightest

At times like this, "it seems the best and the brightest get snuffed out at early age. We think that, had Ron lived, he would have achieved so much more, touched more lives," Jackson said.

"Consider the diversity of the Challenger crew," she said. "It seems that by taking a few of our

## Study says women avoid science jobs

### Feature

By Irene Skricki

Many young women avoid careers in science because they fear a conflict between work and family, according to a study done by a Radcliffe dean and an Educational Testing Service researcher.

Norma C. Ware, associate dean of Radcliffe College, and Valerie Lee, a researcher at the ETS in Princeton, New Jersey, found that only 14 percent of high school women in the top academic group surveyed chose science careers, compared to 40 percent of the high school men.

The nationally representative sample makes the results convincing, Ware claimed. "One can infer from that sample what is going on in that group," she said. "Those who would choose science as a career would most likely be in [the top academic group]."

The survey asked students about the strength of their orientation towards family life. "Girls who chose science were likely to

be low in that measure," while males were not, Lee said. "We had assumed that [attitudes toward a future family] would not be a factor," she said. Women students were more influenced by the advice of high school teachers and counselors than the male students were, the survey indicated.

Sex-role stereotypes develop early, Lee claimed. "The damage is done before high school," she said.

Women score 45 points lower than men on the mathematics section of the SAT, and "girls as a group take fewer math classes in high school," Lee said. "I was a math teacher myself. When girls said they wanted to take Advanced Placement physics, I heard teachers say, 'But we need those places for boys.'"

Ware and Lee used information from a national survey service to select a random sample of almost 3000 students who are in the top academic rank. All of the students scored above average on a math achievement test and indicated an interest in mathematics and science. The students were surveyed as high school seniors in 1980 and again as college sophomores in 1982.

There is a lack of positive role models for women, Lee said, and women feel they must choose between a family and a career. "Stereotypes about science we think are breaking down are not," she said.

Ruth Perry, director of the Women's Studies Program at MIT, said that the results of the survey "cry out for redress. They show how much talent is being wasted because society does not help share with women the burden of reproduction and child care. Society is losing out on all this brain power."

"This country does not take child care seriously, and the people who pay for that are women, especially women who want to pursue science careers," Perry said.

Perry said she has spoken to undergraduate and graduate women at MIT "who fear that the expected biography of science is geared to males and not females. A certain norm for what a science career should look like has evolved."

The male-female ratio at MIT reflects the results of the study, Perry said, but both men and women are beginning to understand the problems of women in science. "Undergraduate women give a good deal of emotional support to their female professors," she added.

"The first step [to change the situation] is always education," Perry said. "We have to point out the statistics and try to change them. One thing that would alter them is to encourage women to enter science."

## Committee begins search for company to manage dining services

(Continued from page 1)

ment on the proposals, leading to the committee's final decision in June.

Stephen D. Immerman, director of operations for campus activities, said there are no plans yet for specific changes. He mentioned some possibilities which a food management company might consider, including:

- Creating a food delivery system which would accommodate catering. The Lobdell Kitchen is currently turning out three times as many meals as it was planned for, Immerman said, and it has to support campus catering needs as well.

## Engineering goal statement released

(Continued from page 1)

ment in the School of Engineering. Some departments have standing committees on undergraduate policy, and the others formed special groups to meet with the commission, Haus said.

The members of this group support last week's recommendations by the Committee on the Humanities, Arts and Social Science (HASS) Requirement, according to Haus. The HASS committee proposed a new distribution requirement of one course in each of four divisions in the humanities, as well as a possible new Institute requirement on social contexts of science and technology.

A series of forums will be set up within the next few weeks to gather student views, Haus said. The commission will spend the spring working on "concrete suggestions" for changing Institute requirements and environment, and will make a report by the end of the term, he said.

Kerrebrock and Dean of Engineering Gerald L. Wilson '61 formed the commission in November as part of the Institute-wide curriculum reform effort promulgated by the Provost's Office. The commission contains three subgroups studying particular aspects of MIT.

Haus chairs a group on Institute core requirements. Professor

- Changing the "ambiance" of the eating space. The dining area might be used for purposes besides eating, such as entertainment programs.

- Addressing additional problems of loading, disposal, vents and ducts.

"I certainly wouldn't expect it to cost any more," Brammer said, although "price hasn't been the deciding factor." The current annual budget for Food Services is \$600 million.

A management company might improve the student employment program, Brammer said. "All the companies I know stress student employment," he said.

"No one really knows what's going to happen next year," said Gerald B. Hershkovitz '87, head captain of Pritchett Lounge. "I hope Pritchett stays the same," he added.

MIT's switch to a management company has only been considered for the past three years, Brammer noted. Before then, most management companies were only capable of "institutional feeding," Brammer said. Now companies are competitive and innovative in meeting the needs of their customers, he continued.

of Nuclear Engineering Lawrence M. Lidsky chairs a subgroup on engineering curricula, and Borivoje B. Mikic, professor of mechanical engineering, leads the group on the Institute environment.

All three subgroups will eventually accept an undergraduate member to be nominated by the Undergraduate Association (UA) Nominations Committee, according to UA President Bryan R. Moser '87. Students can contact the professors on the commission individually, Haus added.

at

# The Tech

**Every Sunday Night at 6:30 pm**  
**(Except Next Sunday,**  
**Washington's Birthday)**



# news roundup

from the associated press wire

## World

### Opposition accuses Marcos of murder

The bodies of four opposition leaders have been discovered in the Philippines over the last four days. Aquilano Pimental, the opposition strategist in the National Assembly, charged that forces aligned with President Ferdinand E. Marcos have begun a post-election "extermination" campaign against the opposition. Majority Leader Arturo Pacifador denied the charge that he was responsible for Tuesday's assassination of Evelio Javier. Javier was Pacifador's hometown rival and a leader in the presidential challenge of Corazon C. Aquino. *(The New York Times)*

### Gorbachev considering July summit

Soviet leader Mikhail Gorbachev is considering coming to the United States in July, but only if it appears significant progress on arms control can be achieved. If an agreement does not seem possible Gorbachev may delay the visit until next year. *(The Boston Globe)*

### Accused Nazi criminal extradited

Andriji Artukovic was extradited by the United States to Yugoslavia Wednesday, ending 35 years of flight. He faces charges of ordering thousands of murders during World War II. Artukovic came to the United States under a false passport in 1948. He denied the charges, claiming they are lies to punish him for being an anticommunist. *(The Boston Globe)*

### Libyan jets encountered

Planes from the carriers Saratoga and Coral Sea encountered more than 18 Libyan jets during the first day of exercises near Libya. Libyan pilots displayed no hostile actions and no shots were fired. *(The Boston Globe)*

### Japan renews export quotas

Japan announced yesterday that it will renew a voluntary export quota on automobiles shipped to the United States. The Reagan administration has been pressuring Japan to make trade concessions to head off protectionist sentiment in Congress. The current agreement expires at the end of March. *(The Boston Globe)*

### Soviets may release Shcharansky's family

The State Department reported the Soviet Union will allow Anatoly Shcharansky's family members to emigrate to Israel. The Soviet dissident will appeal to the Kremlin to let his mother and brother join him in Israel, according to a top Israeli immigration official. Shcharansky was freed in an East-West prisoner swap Feb 11, and will resume his campaign for free Jewish emigration from the Soviet Union, he said on Israeli radio. *(AP)*

### Britain, France finalize Tunnel agreement

Britain and France signed a treaty to allow construction of a 31-mile twin rail tunnel beneath the English Channel. The idea was first proposed in the days of Napoleon. "Where there is a will, there is a way," said French President Mitterrand after the signing ceremony. He also stressed Anglo-French cooperation in the venture. *(AP)*

## Nation

### Weinberger wants bases closed

Defense Secretary Casper Weinberger asked Congress to prove its willingness to save money by allowing him to close three military bases. The bases all happen to be in the districts of prominent House Democrats who have challenged the Reagan administration's military buildup. The facilities are the Army Materials Technology Laboratory in Watertown, MA; the Philadelphia Naval Hospital; and much of the Lowry Air Force Base in Denver, CO. The bases are located in the districts of retiring House Speaker Thomas P. O'Neill of the 8th Congressional District in Massachusetts, Rep. William H. Gray III of Pennsylvania, and Rep. Patricia Schroeder of Colorado. *(The New York Times)*

### Dartmouth students suspended

Twelve students, including 10 members of the right-wing paper *The Dartmouth Review* were suspended from the college. The suspensions were given after the students destroyed a cluster of shanties with sledgehammers. The shanties were set up to protest the racist policies of South Africa. *(The New York Times)*

### NASA set aside safety rule for solid rocket boosters

Agency officials acknowledged yesterday that NASA waived requirements for a "fail-safe" booster seal on its space shuttles three years ago. NASA stopped requiring the backup safety seals on all solid rocket boosters because they were confident that the primary seals were sufficient to assure the craft's safety. Seals located at the seams where sections of the boosters are joined together are presently the focus of the investigation into the Challenger explosion. *(The New York Times)*

Pictures showing the space shuttle Challenger may have been in trouble from the moment of launch were shown to the presidential panel investigating the disaster. The pictures show black smoke between the right rocket booster and the fuel tank of the Challenger as it left the pad. *(AP)*

### Teacher in space program to continue

NASA plans to continue the teacher in space program on future shuttle missions. An invitation has been extended to Barbara Morgan of Idaho, runner-up to Christa McAuliffe, to travel on a future shuttle mission. Morgan accepted the offer. McAuliffe was one of the seven astronauts who perished when the Challenger exploded last month. *(AP)*

### Dow Jones tops 1600

History was made on Wall Street yesterday, as the Dow Jones industrial average closed at 1645.07, the highest mark ever. The average surpassed the 1600-mark for the first time last Thursday. *(AP)*

### Iacocca loses chair of Statue panel

Interior Secretary Donald Hodel dismissed Chrysler Chief Executive Officer Lee A. Iacocca as chairman of the advisory commission on the restoration of the Statue of Liberty. Hodel said Iacocca's position as chairman of the panel represented a potential conflict of interest. When Iacocca refused to resign, Hodel fired him to show that the administration "would not be bullied." Iacocca still retains his position as chairman of a private foundation which raised \$230 million for the Statue. *(The Boston Globe)*

### "Dune" author dies

Science fiction writer Frank Herbert died Wednesday at the age of 65. He is best known for his epic novel "Dune," which introduced millions of readers to the desert planet of that name. The first of the "Dune" books came out in 1965, and a movie based on it was released two years ago. *(AP)*

## Local

### Massachusetts bans Tylenol sales

In the wake of the discovery of more tainted Extra-Strength Tylenol capsules in New York, Massachusetts has banned the sale of the Johnson & Johnson product in the state. Two more contaminated bottles were found in Westchester County, New York, since Wednesday. The Federal Drug Administration has warned Americans not to take the pain-reliever in capsule form. Yesterday's findings followed tests on more than 40,000 capsules. *(AP)*

### Harvard professor denies wrongdoing

The director of Harvard's Center for International Affairs says he does not believe he violated university guidelines in his Central Intelligence Agency (CIA) research. School guidelines require written notice of CIA work. Harvard dean Michael Spence said he was verbally notified about the research. *(AP)*

### New group interested in Garden

Former Bruin Bobby Orr is one of the many Boston-area residents who are assembling a group to purchase the Boston Bruins and the Boston Garden. James Brennan, a Boston businessman who attempted to purchase the team and arena for \$45 million three months ago, has joined forces with Orr, former US Sen. Paul Tsongas, and Juliette Wang, the 22-year-old daughter of Wang Laboratories founder and chairman of the board An Wang. Delaware North, a corporation based in Buffalo, NY, currently owns the arena and team.

The group plans to divide the Garden and the Bruins among them: Boston developer Rosalind Gorin, Tsongas and Orr would purchase the Garden for \$20 million. Wang, who played hockey at Boston University, would acquire the Bruins for \$25 million. *(Boston Globe)*

## Sports

### Whistleblower wins lawsuit against the University of Georgia

A federal jury ruled Wednesday that Jan Kemp, a former instructor at the University of Georgia, was dismissed illegally in retaliation for protesting favorable treatment of the school's athletes. The court awarded Kemp \$2.5 million for lost wages, punitive damages, and mental anguish. The ruling did not mention Kemp's request for reinstatement; she may now put it to Horace Ward, the presiding judge.

University officials changed the failing grades of nine football players in 1982, so that they would remain eligible to play in the Sugar Bowl. Kemp's protest of that action resulted in her demotion, followed by her dismissal. *(The New York Times)*

### Celtics winning streak ends

The Sacramento Kings defeated the Boston Celtics 105-100 Tuesday night, ending a 13 game winning streak. The Kings are a perfect 7-0 on Tuesday. Meanwhile, the Philadelphia 76ers won their third straight game Wednesday night, defeating the Chicago Bulls 106-98. The Sixers are now only seven games behind the Celtics. *(The Boston Globe)*

### Professional Olympics proposed

The Executive Board of the International Olympic Committee has endorsed a proposed rule change that could open the games to professionals. The change would eliminate the distinction between amateur and professional athletes. Individual international sports federations would decide whether pros could compete in the games. *(The Boston Globe)*

### Buffalo win streak snapped

Philadelphia goaltender Bob Frose had 28 saves as the Flyers shut out the Sabers 4-0. Frose credited the entire defense for the win. The Flyers have an 8 point lead over Washington in the Patrick division. *(AP)*

Compiled by Akbar Merchant  
Andy Fish

## Weather

### More snow to come

Another snow event was taking shape in the nation's midsection Thursday afternoon as a cold front moved into the midwest. As this front moved east a storm is expected to develop on the front in the southeastern United States. This low will move up the east coast, leaving one to three inch snowfall amounts on average from northern Georgia to northern Maine. Heavier amounts are possible here in Cambridge depending on when and where the storm strengthens Friday night and early Saturday.

**Friday:** A sunny start followed by increasing clouds. Snow developing in the late afternoon or early evening. High 35.

**Friday night:** Snow. Low 28.

**Saturday:** Snow ending by mid-morning. Clearing. High 32, Low 20.

**Sunday:** Increasing clouds. Milder. High 35, Low 23.

Forecast by  
Michael C. Morgan



# opinion

Guest Column/Arthur Hu

## The changing face of MIT

First in a series.

Many things have changed since I came to MIT as a freshman nine short years ago. The most visible change has been in its student body. It seems that back in my days, Asians were a minority. Older alumni have commented on how "diverse" the students are now. Conversely, I've heard students remark on how "white" the returning alumni are.

In 1976, Asian Americans comprised only five percent of the students at MIT. Even then, the standing joke was that MIT stood for Made in Taiwan. Today, Asian Americans, who comprise but two percent of the national population, account for 20 percent of the non-international freshmen entering America's colleges, and no one is laughing.

The size of the minority population at MIT has more than doubled over the past decade, from 13 percent to 28 percent. Asian Americans have been the largest minority at MIT since the

1970s. Because of large scale immigration which started in 1965, this group, once practically nonexistent as far as national policy was concerned, is one of fastest growing groups in the nation.

Asian Americans now comprise 10 percent of the freshmen at most Ivy League schools. In California, over 50 percent of the student body at UCLA are minorities, with Asian Americans accounting for close to 25 percent.

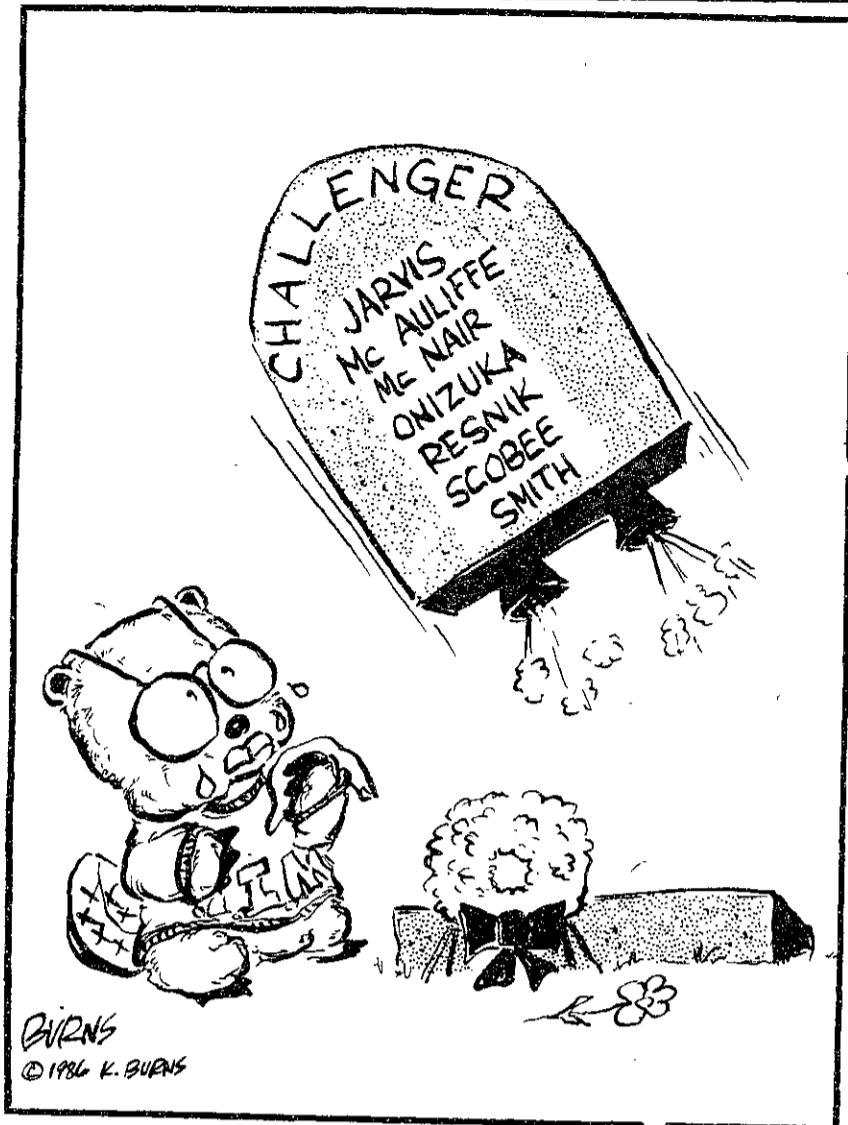
I first started to think about the increasing presence of Asians and other minorities when I noticed a gradual but significant change in MIT each year I came back to visit. I obtained admissions statistics from MIT, Harvard, Stanford, and Berkeley. I also obtained 1980 census summaries, and College Board SAT national profiles. I will try to give my view of why MIT has such a large and growing number of Asian American students, and how they fit into the total picture

as one of the least understood minorities at MIT.

Traditionally, being a disadvantaged minority, or a "disminority," if I may coin a term, has meant being a racial minority with a history of discrimination and underrepresentation at high income and social levels.

But when is a minority not a minority? Asians have had a long history of discrimination in America, but because the most visible Asians are more successful than average, they are not considered to be a disminority. Yet there exists a significant underclass of Asian Americans who do far worse than average who could be considered exactly that. Puerto Ricans are overrepresented at MIT, but one must take into account the Institute's proximity to New York, where most Puerto Ricans live according to the 1980 census. Black South Africans are disminorities who are clearly in

(Please turn to page 5)



## TheTech

Volume 106, Number 4 Friday, February 14, 1986

**Chairman** ..... Ronald E. Becker '87  
**Editor in Chief** ..... Harold A. Stern '87  
**Managing Editor** ..... Eric N. Starkman '87  
**Business Manager** ..... Michael J. Kardos '86  
**Executive Editor** ..... Thomas T. Huang '86

**News Editors** ..... Katherine T. Schwarz '86  
 David P. Hamilton '88  
 Ben Z. Stanger '88

**Opinion Editors** ..... Edward E. Whang '87  
 Mathews M. Cherian '88

**Night Editors** ..... Robert E. Malchman '85  
 Mark Kantrowitz '88

**Arts Editor** ..... Jonathan Richmond G

**Photography Editor** ..... Stephen P. Berczuk '87

**Advertising Manager** ..... Craig Jungwirth '88

**Contributing Editors** ..... V. Michael Bove G  
 Bill Coderre '85  
 Simson L. Garfinkel '86  
 Carl A. LaCombe '86  
 Sidhu Banerjee '87  
 Andrew S. Gerber '87  
 Michael J. Garrison '88

**Senior Editors** ..... Ellen L. Spero '86

**Production Manager** ..... Steven Wheatman '86

**Indexing Project Representative** ..... Carl A. LaCombe '86

### NEWS STAFF

**Associate News Editors:** Earl C. Yen '88, Andrew L. Fish '89;  
**Staff:** Joseph J. Kilian G, Donald Yee '87, Charles R. Jankowski '88, Robie Silbergleit '88, Dorit S. Brenner '89, Derek T. Chiou '89, Mary Condello '89, Jeffrey C. Gealow '89, David C. Jedlinsky '89, Alison C. Morgan '89, Stephen S. Pao '89, Irene E. Skricki '89, Sally Vanerian '89, Donald Varona '89, Anuradha Vedantham '89, Anh Thu Vo '89, Suzanne J. Sandor W '88.

### OPINION STAFF

**Columnists:** Scott Saleska '86, Randy Hertzman '88, Mark McDowell '88, Daniel W. Pugh '88, Alan Szarawarski '88, Elliot Marx '89.

### SPORTS STAFF

**Staff:** Paul Paternoster '88, Jerome G. Braunstein '89.

### FEATURES STAFF

**Cartoonists:** V. Michael Bove G, Mark S. Day G, Kevin J. Burns '79, Jim Bredt '82.

### PRODUCTION STAFF

**Associate Night Editors:** Halvard K. Birkeland '89, Ezra Peisach '89; **TEN Director:** Mark Kantrowitz '88; **Staff:** Amy S. Gorin '84, Joyce Ma '89, David Waldes '89, Jane F. Huber W '87, A. Katrin Powell W '88.

### PRODUCTION STAFF FOR THIS ISSUE

**Night Editor:** ..... Rohald E. Becker '87

**Associate Night Editors:** ..... Mark Kantrowitz '88  
 Ezra Peisach '89

**Staff:** Stephen P. Berczuk '87, Harold A. Stern '87, Shari A. Berkenblit '88, Pete Gordon '88, Andrew L. Fish '89, Illy King '89, Kyle G. Peltonen '89.

The Tech (ISSN 0148-9607) is published Tuesdays and Fridays during the academic year (except during MIT vacations), Wednesdays during January, and monthly during the summer for \$13.00 per year Third Class by The Tech, 84 Massachusetts Ave. Room W20-483, Cambridge, MA 02139. Third Class postage paid at Boston, MA. Non-Profit Org. Permit No. 59720. POSTMASTER: Please send all address changes to our mailing address: The Tech, PO Box 29, MIT Branch, Cambridge, MA 02139. Telephone: (617) 253-1541. Advertising, subscription, and typesetting rates available. Entire contents © 1986 The Tech. Printed by Charles River Publishing, Inc.

## feedback

### Many issues face students at MIT

To the Editor:

The Year in Review issue of The Tech featured four important campus issues which concern students: faculty tenure decisions, the degree of MIT's involvement in SDI and other military research, the Institute's holdings in companies doing business in South Africa, and the curriculum reform process. This letter is addressed principally to students who are concerned about these issues and believe that MIT should do something about them.

Such students are likely to have two questions. First, what specific actions can MIT take? For apartheid, divestment is one specific action, but what about the other issues? Secondly, how can students influence MIT to take these actions?

To answer the first question, the following are constructive steps which we would like the MIT community to consider. Note that these are only suggestions; formal proposals will come later.

• **Tenure:** For only two percent of the Institute's contribution to Project Athena, the Provost's office could establish an annual \$100,000 Teaching Tenure Incentive fund to demonstrate that the Institute is serious about its commitment to excellence in education. Such a commitment also requires faculty diversity.

Each year during the teaching award selection process, MIT could single out five untenured faculty members (the winner and four runner-ups) for special Teaching Tenure consideration. When those tenure cases came up, departments would be guaranteed a share of the \$100,000 fund for each case approved. If four such tenure cases were approved in one year, each department involved would receive \$25,000. MIT could also make such a fund available this year and ask the Department of Mathematics to reopen the case of Professor Frank E. Morgan '74.

Similar incentives could also be used to increase the number of tenured minority and female professors.

• **Military research:** MIT could take three steps: containment, diversification, and redirection. Containment is the estab-

lishment of a set of guidelines to review any new project or initiative exceeding a certain size, so that controversial or manipulative initiatives can be "contained" before the contract is signed and the money starts flowing.

Diversification is the gradual reduction of each MIT laboratory's dependence on military funding to no more than, say, 50 percent. Redirection is an educational process that encourages professors converting to new funding sources to examine areas within their fields that have been given short shrift by the military emphasis of research funding.

• **Curriculum reform:** Of the many ideas for change the faculty is currently considering, two stand out and deserve student reaction. The first is the expansion of the engineering curriculum to five years, through mandatory internship, and the second is the establishment of a "Perspectives on Technology" course in place of existing requirements, to help students think about the social and historical context in which technology is developed.

Suggestions like the ones above must be discussed, fleshed out into proposals, justified, and presented to the administration. MIT will listen to student proposals. The more students there are backing a proposal, the harder MIT will listen. But what about our second question: how can MIT be persuaded to act?

It is first important to understand the Institute's position. MIT is truly interested in educa-

tion, diversity, and human concern. But money is an overriding and often contradictory concern. So the Institute tries to have it both ways.

For example, MIT tells incoming students that education is a priority, but most easily awards tenure to faculty members who bring in lots of research grants. MIT's president gives lectures in Cambridge about the Institute's new, humanistic approach to technology, while Lincoln Laboratory reduces its civilian research efforts and receives \$59.7 million for SDI to rank fourth nationally [The New York Times, Oct. 21, 1985].

There is one asset that MIT cannot afford to lose: its public image and good name as an educational institution. Student leverage is obtained by making MIT's contradictions visible to the world, forcing the Institute to back up its public relations with substance.

There are several recent examples of successful student influence. Gray's statement on SDI at commencement and the Institute's change in policy on the deduction of outside scholarships were both the product of student demands.

A possible action for the near future is a picket supporting a Teaching Tenure Incentive proposal and protesting MIT's lack of commitment to education in its tenure process. A single sign, constantly displayed during the next month when visits by pre-

(Please turn to page 7)

### A reason for rejoicing

To the Editor:

Anatoly Scharansky is now home. Those who worked for his freedom, both publicly and privately, can take a moment to raise a glass and toast the temerity and courage of this brave scientist.

I remember a day when his wife Avital Scharansky was in the Hillel office, attempting to place a call to her mother-in-law, Ida Millgrom, in Moscow. The Soviet telephone operators refused to put the call through. Finally, in desperation, I picked up the phone, and in the most authoritative voice I could muster, said, "put this call through at once!"

This is MIT calling!" Within ten seconds Avital was talking to Anatoly's mother, exchanging information and encouragement, with tears of joyous expectation on her face. Though the line went dead after a minute, it was enough.

This is MIT calling!"

There are more scientists and prisoners of conscience waiting for their freedom. Much remains for us to do on their behalf. But today, we can be happy in the fruition of our labors, and in the knowledge that individuals do make a difference. "This day is the Lord's doing; let us rejoice in it!"

Rabbi Daniel Shevitz

# opinion

## The world is not just black and white

(Continued from page 4)  
the numerical majority. White ethnics, women, the poor, and the handicapped are racially identical to the majority, yet they are also disadvantaged.

Most statistics are averages. And for most American racial groups, the "average" person will be descriptive of a large portion of the group. For example, a large proportion of Whites are in the middle and upper classes, and Whites are underrepresented at low income levels. Similarly, a very large percentage of the Black and Hispanic populations can be found in lower income groups, while they are underrepresented at high income levels.

Asian Americans have the highest median income of any racial group. But because Asians are a largely immigrant population from countries with very diverse class backgrounds, the "average" Asian American tells us little about most Asians. Asian Americans are the only racial group that is overrepresented in both high and low income levels. Asian professionals in the suburbs probably make more than the average, while Chinatown has among the lowest per capita incomes in Boston. Perhaps the best approach is to treat Asians as both an elite and underclass.

According to the 1980 census, half of all Asian Americans aged 20 to 21 attended college. If you think that this is typical for Asians, only 15 percent of those in Japan and less than one percent in China complete college. The fact that higher education is so accessible in America is often the major reason for coming here in the first place.

Even low income Asians are likely to send their children to college, as the median income for Asian SAT registrants is actually below average. One low income housing project sent 90 percent of their children to college.

When Asian Americans go to college, they try for the best schools, and the most challenging fields. While the majority of stu-

dents taking the SAT intend to receive a bachelor's degree, most college-bound Asians hope for a master's or doctorate. Asian Americans as a group score slightly better on the SAT in mathematics than average. For Asians who speak English as their first language, their verbals scores are actually just as high, or even better than average as well. Asian Americans comprised 12 percent of the top scoring students on the SAT in 1983.

Women are usually considered to be disadvantaged; but Asian women are at a disadvantage only relative to Asian men. Asian Americans account for 24 percent of MIT's women. For non-Asians at MIT, the male-female ratio is approximately 3:1. But for Asian Americans, it is 1.7:1. That is nearly double the female share of other groups.

Looking at national SAT score distributions, women generally score somewhat lower than the men do, especially in math. But in the highest score ranges, where MIT students can be found, Asian females scored as well as White males.

But even when Asians do well, it is instructive to see just how high they really go. Asian Americans may be overrepresented among professionals, but they are scarce in management and administration. They are nearly absent from politics, professional sports, and the popular arts. This year, only one of 32 Rhodes scholars was Asian.

Those who do better than average are the most visible Asians, and get the most press coverage. But the 28 percent of Asians who spoke English as a second language scored worse on the SAT verbal section than any other group, including the lowest income Blacks, although their mathematics scores were slightly higher than their English-speaking counterparts.

That has a lot to do with why many Asian Americans gravitate towards technical fields. As a result of the poor verbal scores, Asians comprised 14 percent of

those in the lowest combined score ranges on the SAT, and only three percent of those in the average range. You won't see that in *Time Magazine*.

The strong Asian emphasis on education can be a liability. Historically, those who try too hard have not always received the best reception. Some have noted that Asians seem to be somewhat narrow and single-minded about academics at the expense of social skills and achievement. As one who has personally grown up in a typically Asian mold, I can say that they just might be right. Most schools judge applicants on the basis of personal skills as well as academic skills, and take a hard look at activities, many of which require a high degree of socialization to successfully participate in. Reinforced by stereotypes, this can discriminate against Asians in the same way standardized tests discriminate against other minorities, but in a way that is not easily measured.

Historically, most people pay little attention to Asians. I can't count the number of times I've encountered "Check one: White Black Other". In most press accounts of education, Asians are either left out entirely, or given exclusive coverage as star performers only. In previous years, because Asian Americans were such a small group, this may have been justified. But it must be clear, at least to the MIT community that the world, isn't just Black and White anymore.

(Next: quotas and preferences in admissions at MIT.)

## Save big bucks on bucks

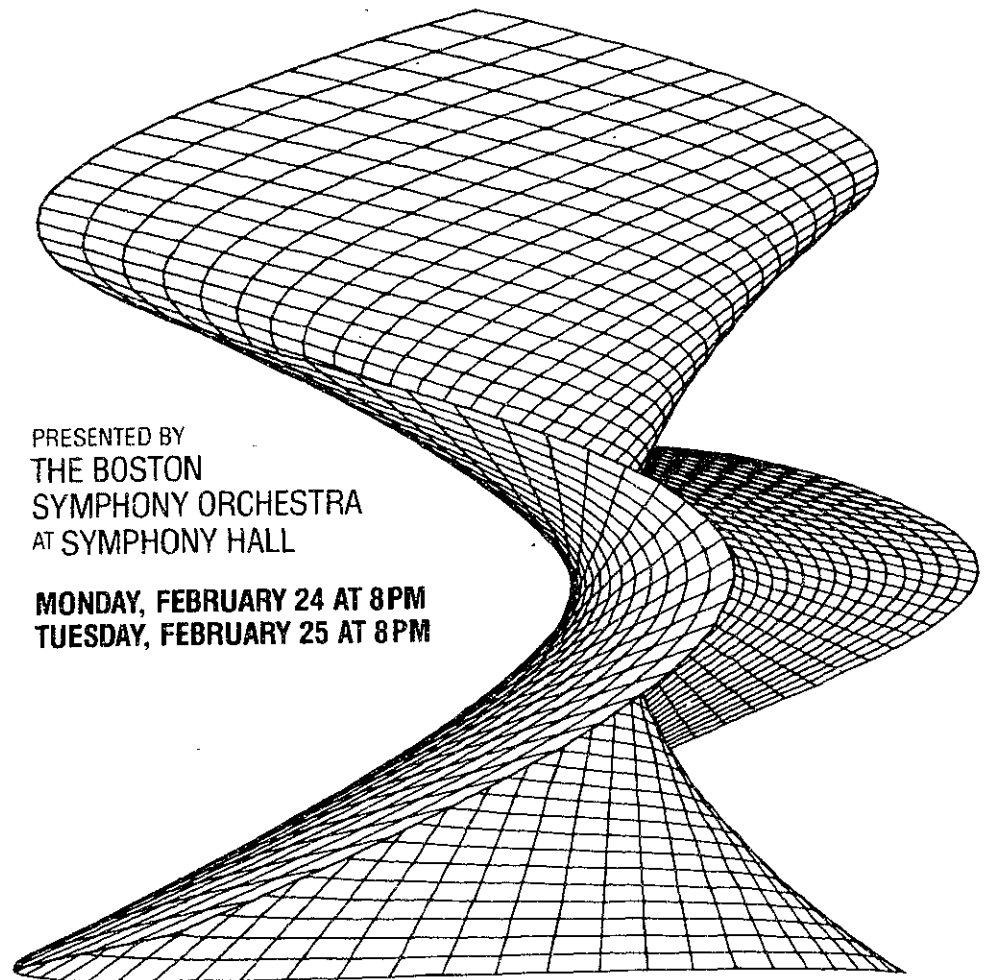


Men's Dexter bucks 25% off  
The traditional classic suede buck, by Dexter. Features Dexter quality styling; leather quarter linings and heel pads, scored red cushion crepe sole and Goodyear welt construction. In tan suede. Sizes: 7-12.  
Reg. \$48

SALE \$36  
**the Coop**  
HARVARD COOPERATIVE SOCIETY

Available at MIT Student Center. Store open Mon-Sat 9:15-5:30pm.  
Coop Charge, MasterCard, Visa and American Express welcome.

## A UNIQUE EVENT IN CONTEMPORARY CULTURE



PRESENTED BY  
THE BOSTON SYMPHONY ORCHESTRA  
AT SYMPHONY HALL

MONDAY, FEBRUARY 24 AT 8 PM  
TUESDAY, FEBRUARY 25 AT 8 PM

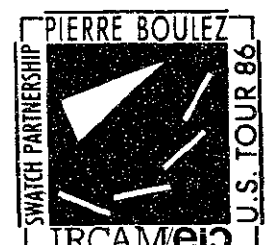
## ENSEMBLE INTERCONTEMPORAIN

PIERRE BOULEZ  
CONDUCTOR

WITH

PIERRE-LAURENT AIMARD, piano  
ALAIN NEVEUX, piano and electric organ  
MARIE-CLAIRE JAMET, harp  
MICHEL CERUTTI, cimbalom  
VINCENT BAUER, vibraphone  
DANIEL CIAMPOLINI, xylophone  
and glockenspiel

REPONS by PIERRE BOULEZ  
Assistant: Andrew Gerzso  
Technical realization IRCAM  
Ticket prices: \$5 and \$10 at  
Symphony Hall Box Office  
266-1492



THESE CONCERTS ARE MADE POSSIBLE BY THE SUPPORT OF THE MASSACHUSETTS COUNCIL ON THE ARTS AND HUMANITIES

## KINKO'S PROFESSOR PUBLISHING SAVES MY STUDENTS TIME AND MONEY.



Let Kinko's help organize and distribute your supplementary class materials this term.

**kinko's copies**

Great copies. Great people.

907 Main St.

497-4111

# president's day *sale*

*High, tech  
at low  
prices*

■ Panasonic VHS Video Cassette Recorder  
Features a 2-week, 4-program digital clock/timer with 16 function wireless remote control.  
Comp. 499.95 **SALE 399.95**

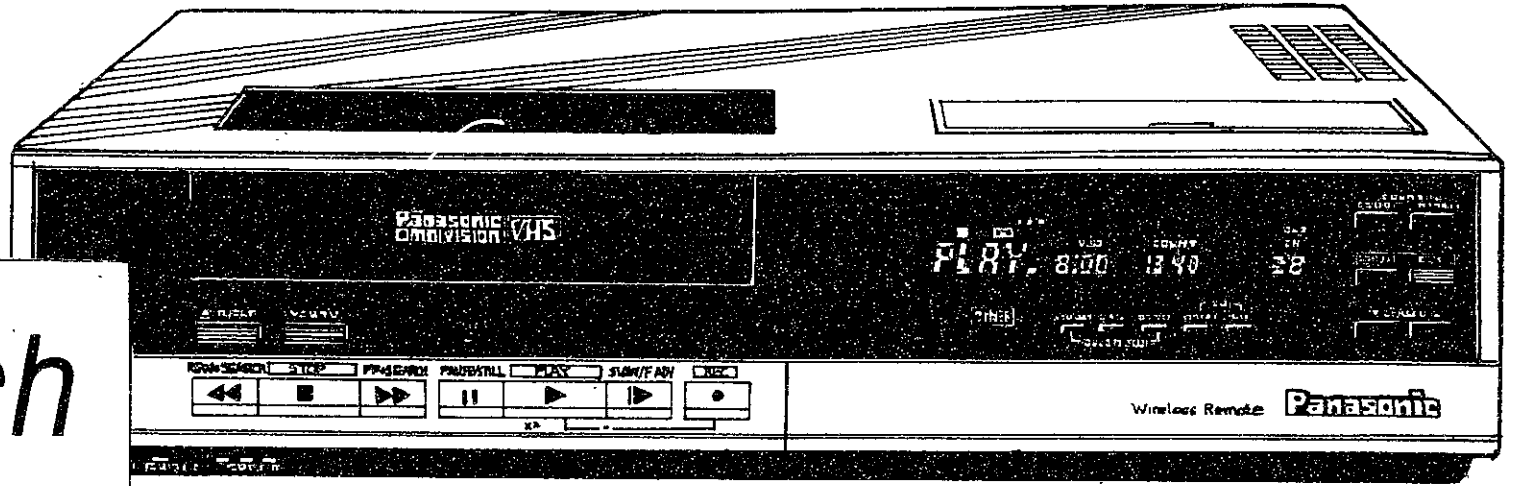
■ Hewlett Packard 41CX Advanced Programmable Calculator w/ Extended Functions. The calculator for students, professors and professionals, with over 2500 software programs.  
Comp. \$299 **SALE \$219.95**

■ HP 41C Advanced Programmable Calculator (Not shown.)  
Comp. \$225 **SALE 149.95**

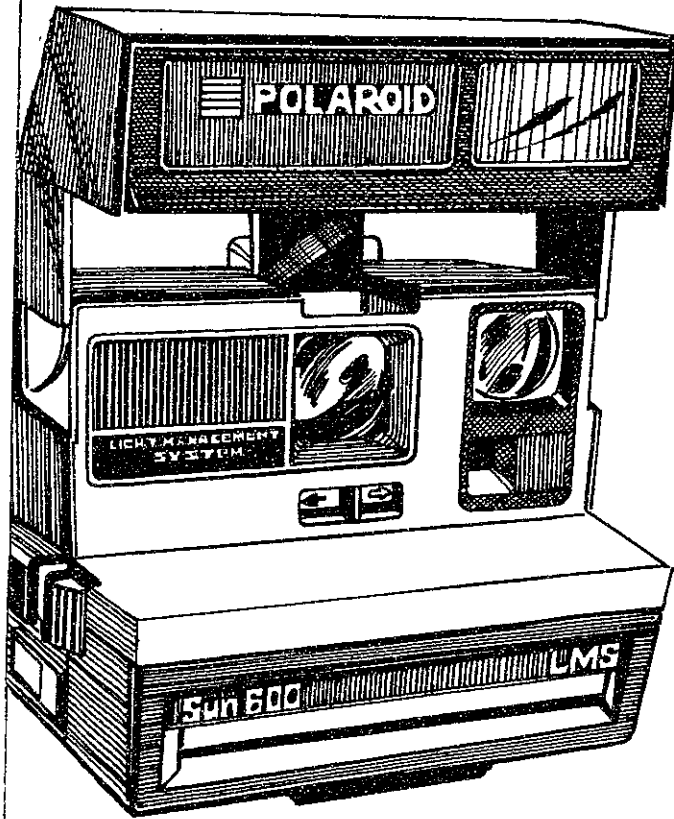
■ FREE 2-PK OF POLAROID FILM with purchase of Polaroid Sun 600 Camera  
Polaroid is still the best instant camera value, featuring built-in flash, instant recharge and automatic firing.  
A \$60 value for only 39.95.

■ Toshiba XRZ 50K Compact Disc Player  
Front-loading system with automatic music search and digital display and timer.  
Reg. 279.95 **SALE 179.95**

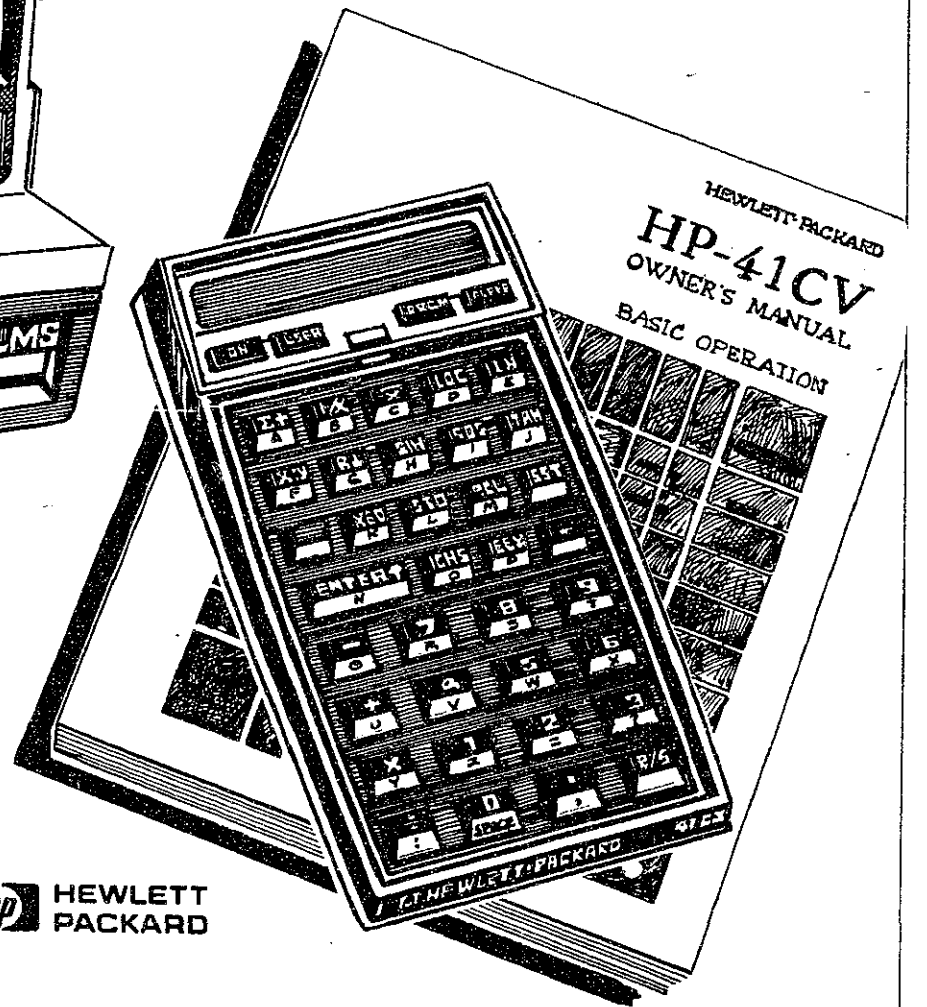
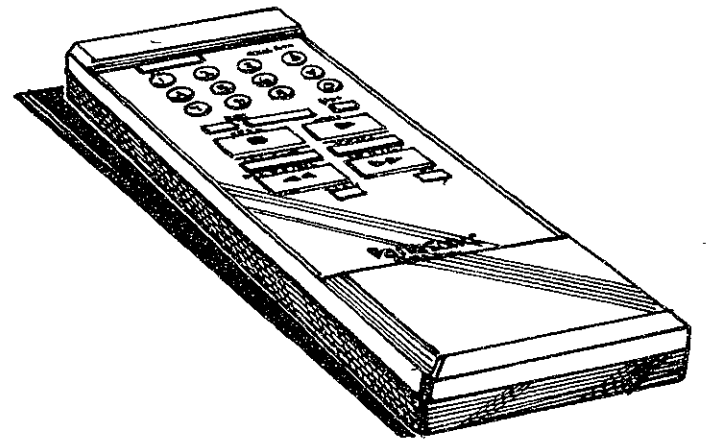
■ Panasonic VHS Video Cassette Recorder (Not shown.)  
Features 4 rotary heads and wireless remote control.  
Comp. 599.95 **SALE 499.95**



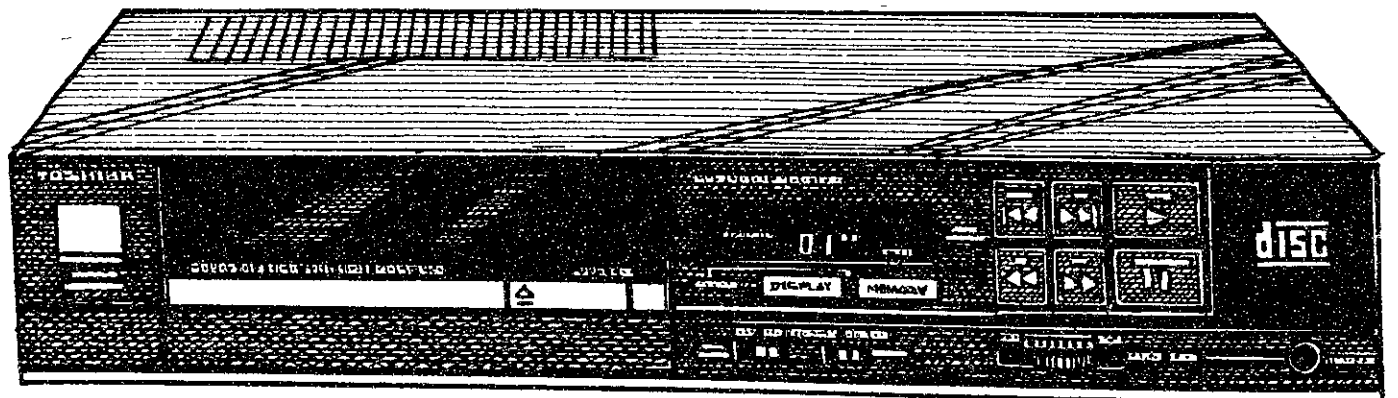
**Panasonic**



**Polaroid**



**hp HEWLETT  
PACKARD**



**TOSHIBA**

HARVARD  
COOPERATIVE  
SOCIETY  
**the  
Coop**

Available at Harvard Square, MIT Student Center, One Federal Street and the Coop at Longwood, 333 Longwood Ave., Boston.  
Harvard Square open Mon-Sat 9:20-5:45pm, Thurs til 8:30.  
Coop at Longwood open Mon-Sat 9:20-5:45pm, Thurs til 8:30.  
Coop Charge, MasterCard, Visa and American Express welcome

# opinion

## feedback

### Students should use their leverage

(Continued from page 4)  
freshmen reach their peak would tell MIT, "You can't have it both ways."

Appropriate tactics can be devised for the other issues.

We will be holding a campus-wide forum on campus issues and activism to discuss these proposals, their implementation, and the general issue of informed activism at MIT. Guests at the forum will be Joel Feigenbaum, a student activist at MIT during the Vietnam War protests of 1969, and Barry Feldman '78, who will both relate their experiences effecting change at MIT.

### MIT is not deserving of charitable donations

To the Editor:

Upon graduating from MIT, I have received numerous requests for money. I am unable to fulfill these requests due to numerous economic and political reasons.

I feel that tuition during my years at MIT paid for my education, and any money I give now is a charitable donation. As a charitable organization, I have many reservations in giving financial support to MIT.

These reservations stem from the fact that MIT often seems more interested in acquiring money than in providing education. There are three major areas of concern:

1. The amount of military research that is conducted in the labs at MIT. This is not only offensive to me, but is also an all-pervasive feeling one gets at MIT. I feel this taints the educational environment.

2. MIT's support of the apartheid regime in South Africa by continued investments in that racially-torn country.

3. MIT's real estate investment in Cambridge. I feel the investment decisions have not given proper consideration to the local residents in Cambridge.

If anyone would like to respond to the issues brought up in this letter (none of which are new), please feel free to direct mail to the address below. I will be more than happy to continue a meaningful correspondence.

Philip Katz '82

We believe their experiences will demonstrate that student activism has worked. Feigenbaum helped start a movement that led to the formation of Concourse and ESG and the divestiture of Draper Labs. When Feldman was on campus, students caused the termination of an MIT program with the Taiwanese government in missile guidance technology.

Although these events occurred over ten years ago, *The Tech* recently noted that "Activism has been on the rise during the past year, and shows signs of growing. ["Plus ca change . . .", Feb. 4, 1986] *The Tech* is right.

Rich Cowan G  
Ron Newman '79  
Seth Tuler G  
and 13 others

### The Thirsty Ear should be more considerate

To the Editor:

As I sit here sipping my draught in the Thirsty Ear Pub, I cannot help but remain infuriated at the long battle I had to fight to quench my thirst.

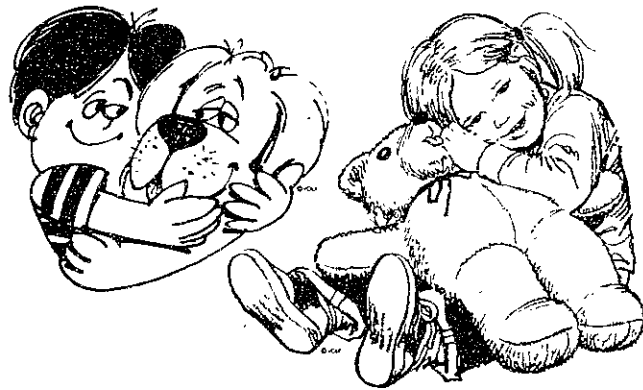
This evening, as I entered the Ear, the Pub's director, Mary Phillips G, would not accept my Canadian citizenship card, along with my MIT identification as positive proof of age. I do not have a valid driver's license and do not carry my passport to the local pub.

Although two of the bartenders, my floor tutor, and my friends vouched for my age,

Mary remained stubborn. As she said to my aghast, "I have never heard of a Canadian citizenship card!" Only after returning with my passport was I allowed access.

While I agree with the process of showing proof of age in order to be let into a bar, I do strongly believe that honesty with oneself should be a prerequisite for a bouncer. I shall not be one to let the Ear be closed down by allowing it to serve a minor, but I hope that a provincial and thoughtless attitude will not deny me my right to a brew with the boys.

Ronald G. Indech '87



ACT NOW!

### DISKETTES BULK 5 1/4" DS/DD

49¢ each. Lots of 50.

These are not seconds. Money-back guarantee.  
PO's accepted.

Call 1-800-633-9242 9-9 (EST) M-F  
10-6 Sat

Offer expires 2/15/86

Micro Electronics, Inc.

### Quality Car Rentals at Affordable Rates

• Daily - Weekly - Monthly • Weekend Specials



Logan Airport 125 Bremen St. 569-6500	Harvard Square 1201 Mass Ave. 876-8900	Brookline 143 Harvard St 739-2244
Downtown Boston Mid-Town Hotel 220 Huntington Ave. 267-6633	Lewis Wharf 28 Atlantic Ave. 367-6777	Arlington Mirak Chevrolet Service Center 1125 Rear Mass. Ave. 646-8600

Plus 2 other locations See Yellow Pages



### Elias Hair Care

319 Mass Ave

497-1590

(2 blocks from the center of MIT)

MON-TUE-WED:

\$5.00 Discount with this ad

\$2.00 Discount anytime with MIT ID.

### A Year of Comparative Study and World Travel

Film, Television and Social Change:  
Cambridge, London, Rome, New Delhi, Poona, Bombay, Chiangmai, Tokyo, Beijing, Shanghai, Hongkong, Los Angeles

### Film and Politics:

London, Berlin, Paris, Rome, Rio, Buenos Aires, Lima, Mexico City.

September 1986 - May 1987

Faculty from Harvard, Columbia, New York University, University of California and Indiana University

Stanley Cavell, Robert Gardner, Wm. Rothman, Charles Warren, Cristina Szanton, Katherine Morgan, Victor Wallis, Robert Stamm, Eric Rentschler

Two academic programs limited to thirty students each

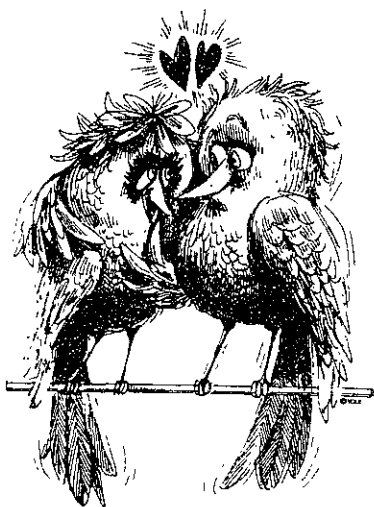
For further information  
call Joan Tiffany collect: 617-267-8612  
The International Honors Program  
19 Braddock Park  
Boston, MA 02116

LESBIAN? BISEXUAL? GAY?  
?  
SEXUALITY  
?  
PROBLEMS, QUESTIONS, INFORMATION

The GAMIT (Gays at MIT) contact line is now staffed during the following hours. If you have questions, or need information on gay and lesbian issues or problems, or if you simply need someone to talk to about your sexuality, call us at 253-5440. Or better yet, stop by our lounge (50-306, Walker Memorial) and talk to our trained staff members in person.

Sundays 8:00pm - 10:00pm  
Monday - Thursday 7:30pm - 10:00pm

The phone is also staffed during other hours and during all GAMIT events.



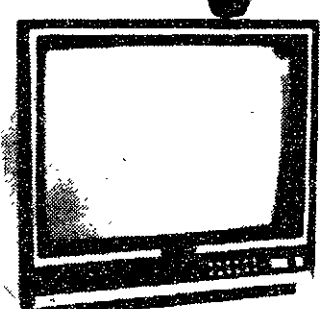
# NANTUCKET SOUNDS

## WASHINGTON'S BIRTHDAY

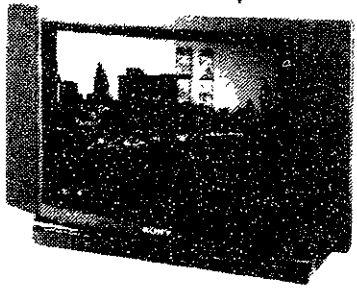
# STEREO & VIDEO

# SALE

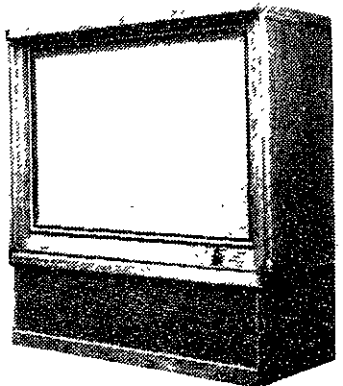
sale ends February 17th



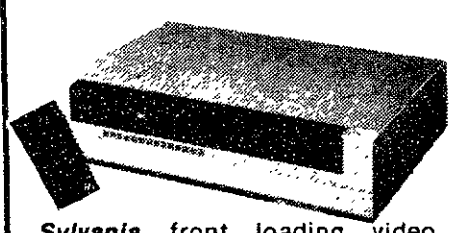
**Toshiba CX-2025** 20 inch flat screen color television with audio/video inputs, 117 channel and random access tuning and 30 month limited warranty.  
reg. 499 **369**



**Sony 1981** 19" flat square tube stereo television with 1 gun picture tube, MTS stereo tuner, built in stereo speakers, rosewood cabinet and more!  
reg. 699 **599**

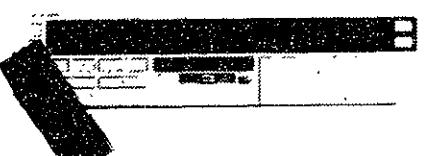


**Mitsubishi VS459** 45" projection television with high resolution, wide angle viewing, random access electronic tuning with remote, full audio and video capability and beautiful oak cabinet.  
reg. 3400 **2995**



**Sylvania** front loading video cassette recorder with remote control, fast scan, double speed playback, still picture, slow motion, memory, timer, and more!  
reg. 380 **299<sup>88</sup>**

Financing/professional installation available



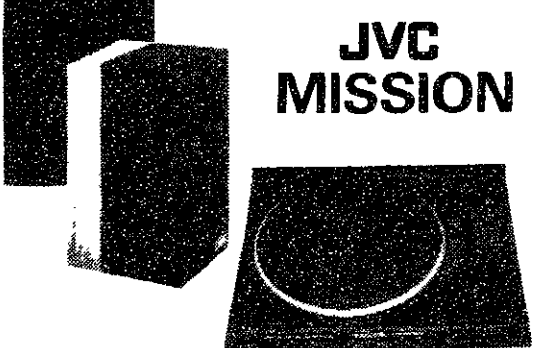
**Harman Kardon VCD-1000** VHS Hi-Fi video recorder with uncompromising sound quality and breathtaking video with 105 channel cable-ready stereo tuner, 4 event/14 day programming, wireless remote and more!  
reg. 799 **649<sup>95</sup>**



**Mitsubishi HS430** 4 head VHS Hi-Fi video cassette recorder with stereo tuner, excellent special effects, freeze frame, high speed search forward and reverse, and more.  
reg. 1100 **969**



**JVC HRD140** 4 head VHS video cassette recorder with infra-red remote control, special effects and more!  
reg. 469 **349**



**JVC MISSION**  
When it comes to features, this system has it all! The **JVC** digital synthesizer AM/FM receiver has 40 watts per channel, 16 station preset capability, a 5 band stereo graphic equalizer with video input/output terminals and more. Add a full logic control cassette deck with soft-touch controls, Dolby® B noise reduction for clean, clear recording; an exciting new compact disc player for state-of-the-art digital sound with easy operation, remote control, 15 track random access, independent suspension system, and much more. That isn't all, next add an auto-return belt-drive turntable with cartridge and a pair of **Mission** loudspeakers to compliment the system and make it an excellent value!  
reg. 1029<sup>88</sup> **SALE 799**



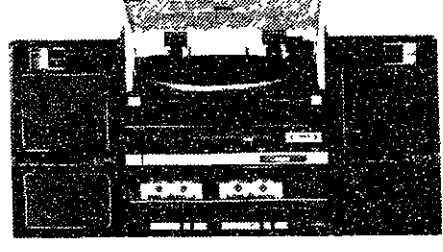
**Alpine 7272** AM/FM with cassette, 16 watts per channel, Dolby® B noise reduction, auto reverse and more. Brings you that much closer to the original recording!  
reg. 370 **319**



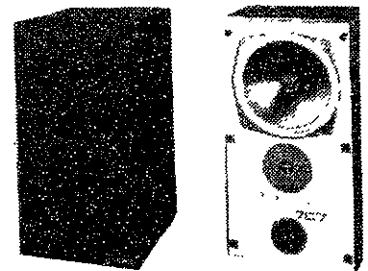
**Alpine 7163** AM/FM cassette deck with electronic tuned radio, auto reverse, bi-level capability, 12 station preset, auto seek, separate bass and treble controls and much more! Great music for any auto!  
reg. 200 **172**



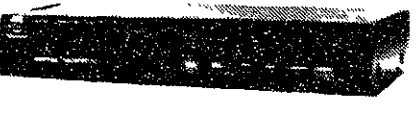
## FISHER



This is the best value in a stereo system under \$300. A quality compact music system with 20 watt per channel AM/FM stereo receiver, double cassette deck with Dolby® noise reduction, 5 band graphic equalizer, belt drive turntable and 2 flat piston loudspeakers. Stop in and audition this system and you'll agree it's the best stereo value around!  
**SALE 299<sup>95</sup>**



**Mission** loudspeakers are a brand new addition to the Mission range. Unique cabinet construction, accurate transient bass response, ferrofluid polymer dome tweeter, and more.  
reg. 300 **269<sup>95</sup>**



**JVC XLV-200** Compact disc player with superior tracking ability, digital filter, for better sound and more.  
reg. 300 **249<sup>95</sup>**



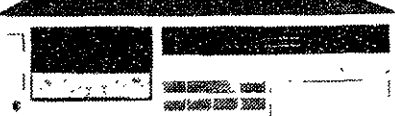
**Aiwa DX-1500** compact disc player with slim compact design, ultra high fidelity playback, easy programmability with remote control and much more!  
reg. 375 **329<sup>95</sup>**



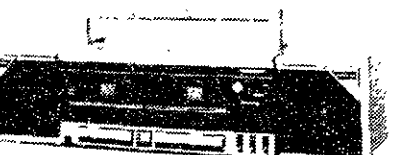
**Mission D-7000** compact disc player with digital to analog circuitry, audiophiles choice for top performance, European made, remote control with random access, fully programmable, a unit with critical acclaim!  
reg. 750 **699<sup>95</sup>**



Item not exactly as shown  
Regardless of the investment you make for a turntable, your music remains just as important! The new **Bang & Olufsen RX2** turntable is no exception. With the unique anti-skating tonearm, electronic drive and Danish technology this unit is pure Bang & Olufsen.  
reg. 200 **172**



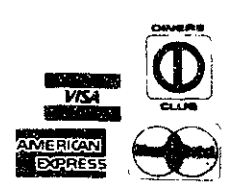
A strikingly exceptional cassette deck, the **Harmon Kardon TD192** delivers unprecedented quality and value. With ultrawide band technology, Dolby® B noise reduction, solenoid controls and more  
reg. 295 **249<sup>95</sup>**



**Aiwa CAW-40** component system featuring double cassette deck, auto reverse, dubbing facility, 5 band graphic equalizer, Dolby noise reduction, and more! Perfect for apartment or dorm!  
reg. 229<sup>95</sup> **199<sup>95</sup>**

# Nantucket Sound

HOME • CAR • PORTABLE STEREO • VIDEO  
You'll find Nantucket Sound at these locations:  
736 Commonwealth Ave., Boston  
South Shore Plaza, Braintree  
Northshore Shopping Center, Peabody  
Augustine's Plaza, Rte. 1, Saugus  
Hanover Mall, Hanover  
Airport Rotary, Hyannis



# opinion

## feedback

### Ticket sales system is flawed

To the Editor:

I am a freshman here, and I would like to share an experience I had with the system of ticket sales for rock and pop concerts.

February 4, I went to get in line for tickets to *The Firm* (a hard rock band) at the Boston Garden's box office. It was snowing that night. I dressed reasonably warmly and brought a fold-up chair.

The Kendall subway station was closed early, so I ended up walking the whole way during the windy snowstorm. When I got there I signed a list which placed me in position 19. I felt pretty good about getting such a good place on the list and figured I was guaranteed good seats at this position. The hours began to tick by. I had brought a book with me and I read quite a bit, but I was so cold just sitting there that I couldn't control my shivering.

By 7 am the line started to lengthen several hundred feet down the street. At 9:30 they let the first 50 or so people inside to sit down and wait until 11 am when the tickets went on sale. By this time, the "list" was invalid because the trustee of the list burned it in a trashcan fire. Line cutters did reasonably well, and I got bumped a few places. I was still among the first 30 or so.

When the tickets finally went on sale the line was three blocks down the street. I felt good that my patience and endurance were finally going to pay off. The people in front of me were crying elations as they purchased tickets in the first, second, or third rows. When I got to the window, I asked for three tickets and the man gave me "the best I have, sir."

On the tickets was printed section 39. I looked at a diagram of the arena and discovered that section 39 was not even on the floor or in the box seat area. It wasn't the worst section, but I was a bit perplexed. Suddenly another guy who just bought tickets at another window shouted, "First row! First row!" This person's prayers had been answered — mine hadn't. Several people around me were also being ripped off while people originally behind us were getting tickets they had only dreamed of getting. I walked to the subway very tired and very depressed.

I'm still upset, and there may be other people who also share my grief. I'm also sure that just about everyone who has tried to

get good seats at a rock or pop concert has become upset about the whole system. Why should the good seats at the concert be reserved for the people who can take a day off from work or classes to go camp out at a box office or those people who can afford scalpers' prices?

I have an idea which could help bring an end to this ridiculous system and give more people a fair chance. If the concert's higher priced tickets expect to be sold out in a reasonably short time (which is common), then they should be sold at random. What this means is that everyone standing in line for tickets should have an equal chance to get those front row tickets or the not-so-good tickets at the higher price. If it is reasonably certain that the concert will be sold out, then all the tickets should be sold at random. In this case, everybody should have an equal shot at being able to purchase higher or lower priced tickets.

The system should be based on a computerized printed-ticket format so that a person who asks for three tickets can have them all next to each other if he/she wishes. Also, the tickets should be paid for in advance before the computer randomly picks the seats so that the buyer cannot refuse the tickets if he/she doesn't like them. If the computer cannot locate three adjacent seats (or whatever number of seats the person asked for), then the buyer should be refunded or given the option for non-adjacent seats.

Also, in the case where all the tickets are sold at random, if the computer returns lower priced tickets where the higher price was paid, then the difference should be refunded, of course. But the buyer must accept the tickets selected.

This solution will solve many of the problems associated with the system of concert ticket sales. As noted above, this will give everyone who buys tickets a fair shot at getting the best or the worst seats. The incentive to camp out up to two days before the tickets go on sale will be gone. The need to do this to get decent seats will not exist and the buyer will be relieved of this burden.

Also, the profession of ticket scalping will be made extremely difficult if not totally unprofitable particularly for shows that don't sell out. At best, a scalper can purchase a bunch of random

tickets for a show which eventually sells out and then sell them at a higher price. He won't be able to make as much money as he did before because most of his tickets won't be nearly as good as they used to be when he camped out and bought out the front row.

I'm still not quite sure how I got cheated. Since the tickets were all pre-printed, I suppose that all the good seats being sold at any window were all gone and that other windows still had good seats after I had purchased mine.

Everyone familiar with the system of ticket sales for rock and pop concerts must agree that it has some major flaws and something must be done. A system of random selection similar to what I've suggested can and should be the device to solve these problems.

Jim Rees '89

### Special Student / Youth Fares to SCANDINAVIA

On Scheduled Airlines!

The inexpensive way to get to Scandinavia and other destinations in Europe, Asia, Africa and the Middle East.

Winter Rates to Scandinavia

New York to Copenhagen, Oslo, Stockholm from \$240 one way, \$400 roundtrip

New York to Helsinki from \$270 one way

Chicago to Copenhagen from \$240 one way, \$400 roundtrip  
Chicago to Oslo, Stockholm, Helsinki from \$280 one way, \$480 roundtrip

and tours designed especially for students to the SOVIET UNION

For Information Call:

### WHOLE WORLD TRAVEL

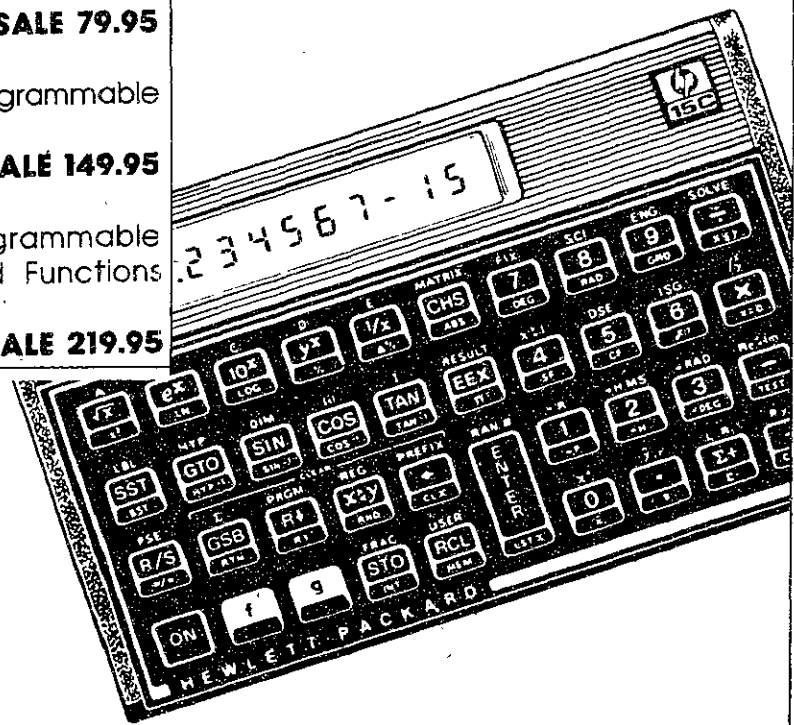
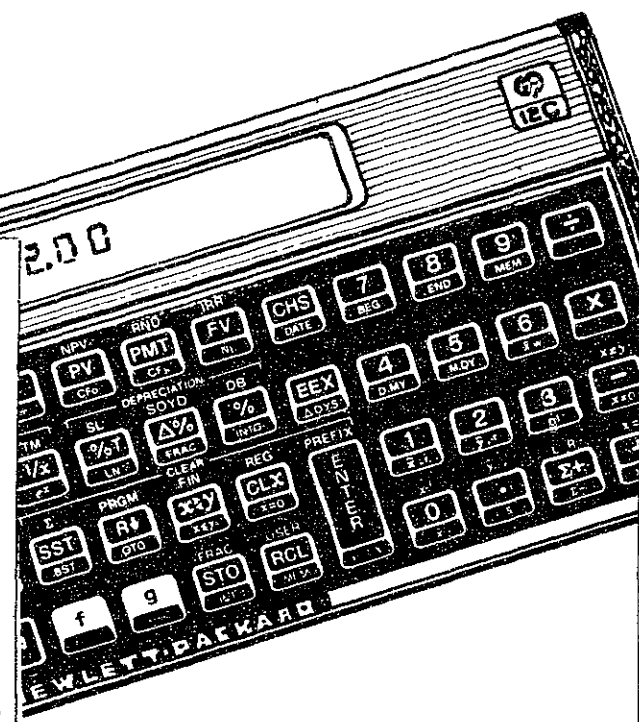
Youth and student travel experts for over a decade  
17 E. 45th St., New York, NY 10017  
(212) 986-9470

Summer Fares Now Available!

# double the savings

The good news is that Hewlett Packard has lowered their prices on calculators -- the better news is that the Coop is making them even lower! Take advantage of our sale on Hewlett Packard and add up the savings!

- HP 12C Programmable Financial Calculator  
Comp. \$120 **SALE 79.95**
- HP 11C Programmable Scientific Calculator (Not Shown.)  
Comp. \$75 **SALE 49.95**
- HP 15C Advanced Programmable Scientific Calculator  
Comp. \$120 **SALE 79.95**
- HP 41CV Advanced Programmable Calculator (Not Shown.)  
Comp. \$225 **SALE 149.95**
- HP 41CX Advanced Programmable Calculator with Extended Functions (Not Shown.)  
Comp. \$325 **SALE 219.95**



This space donated by The Tech

NEW 星星  
**HSING HSING**  
RESTAURANT  
Mandarin & Szechuan Taste  
COCKTAILS

TAKE OUT SERVICE

**20% off DINNERS** \$5.00 or more  
Served from 5 am to 10 pm  
Lunch Special starting at \$2.99 served from 11:30 am to 5 pm

548 Mass. Ave. Cambridge, Mass. (617) 547-2299



HARVARD COOPERATIVE SOCIETY



Available at Harvard Square, MIT Student Center, One Federal St. and the Coop at Longwood, 333 Longwood Ave., Boston. Harvard Square open Mon-Sat 9:20-5:45pm, Thurs til 8:30. Coop Charge, MasterCard, Visa and American Express welcome.



## Arts

# Bursting beyond boundaries — Images of Infinity

By KATIE SCHWARZ

**I**mages of Infinity, photographs by Yulla, an exhibit at the Compton Gallery (10-150). Monday to Friday, 9am - 5 pm; Saturday, 10 am - 4 pm.

"IMAGES OF INFINITY" IS CLEARLY AN APPROPRIATE topic for an exhibit located just off the infinite corridor. The tone of Yulla's large, busy color photographs is also appropriate: they impart a sense of frenetic motion, of bursting beyond their boundaries, that echoes the hurrying stream of students outside.

Infinity is only a mathematical concept to most of us, but Yulla tries to evoke it visually. Her photographs are mostly abstract treatments of mostly inanimate, manmade subjects: buildings, sculpture and machines are shot from weird angles,

out of focus, then cropped into unrecognizability. Some pictures are mounted next to slightly misaligned upside-down-and-backward versions of themselves.

How can a photograph, which has edges, be an image of infinity? Yulla's pictures attack that question by suggesting motion and tension across their boundaries. Diagonals and elongated shapes sweep the eye across the photograph and beyond into space; repeated images indicate trajectories. Enlarged photos of hooks and pulleys bring a feeling of force stretching along the ropes. Nearly all the pictures succeed at implying something vast outside the camera's reach.

Vast motion must involve vast energy, shown through the sharp, bright colors. Shiny pinks, blues and whites dominate. The mood is kinetic, like a child in a park

on a sunny day running from one exciting sight to the next.

Brightness and activity can and do become cliches. Yulla's exhibit is marred by trite shots of sunsets, billowing clouds and bouncing balls, as well as cheerfully humming machines that belong in a corporate annual report.

Some of the better pictures, instead of wanting to jump out of their frames, hold a calm awe of eternity. A red-and-black strobe-like image brings to mind the rotation of a remote star. Strange, grainy images of small balls spinning in a womb-like space seem to anticipate an ominous future: will these balls become a component of a large manufactured system? Likewise, a picture of rusted metal parts shows a process of change with a long past and fu-

ture. A few photographs disturbingly juxtapose human faces (real or sculpted) with overbearing columns or buildings — the faces are life-size, but the verticals are endless.

I found myself bouncing from photograph to photograph, buffeted by all the different motions, as each one pointed my attention across its edge to somewhere else. When I tried to slow down and contemplate them one at a time, many of them made me feel annoyingly jittery — but sometimes I also felt as though the Great Dome had been ripped away, and there was an unexpected hugeness where I was accustomed to little rooms and hallways. "Images of Infinity" is just right for a quick stop between classes to lift that cramped indoors feeling.

# Forbidden Broadway: the laughs return

By SCOTT LICHTMAN

**F**orbidden Broadway 1986, playing at the Terrace Room in The Boston Park Plaza Hotel, indefinitely. Tuesday — Sunday at 8pm, with Sunday Matinee. \$15-19.

NOT THAT THE LAUGHS HAVE EVER LEFT. "Forbidden Broadway" (reviewed last year) has simply been revamped for the new season, perhaps a reason that return show-goers (and tourists) continue to fill the Boston Park Plaza Terrace room.

The small-stage revue has not deviated from its original formula: a barrage of quick-costume changes, then mockeries of familiar Broadway shows and personalities. Consider the parody of majestic Patti Lupone, Broadway's first portrayer of Evita. "Patti" (Karen Murphy) complains of not finding work since the show ended and that she won't be doing the film version:

*Don't cry for me Barbara Streisand,  
The truth is I never liked you,  
You'll do the movie and I'll go mental,  
When you sing Eva, like you sing Yentl.*

There are some 20 song-length parodies such as this.

After 500 pun-filled performances of this material, one wonders how writer Gerard Alessandrini and the five-person cast manage to keep the show fresh. It's akin to writing up the next requisite disaster for "Airport 1995."

Unlike Airport, however, "Forbidden Broadway 1986" is actually an improvement on its first year of production. The wit and acting have been tightened up and the visual parody fine-tuned. The sight of Liza Minelli drooling over her own glitter, for example, is annoyingly funny. The words have also been changed in several numbers.

The only obstacle "Forbidden Broadway" has encountered in its back-stabbing path is the lack of new hits to take shots at; their tribute to the 1985-6 season consists of a blank stage. As a result, the number of shows and songs possibly unfamiliar to Broadway novices has increased.

This does not stop take-offs of "Big River" and "Dream Girls" from being very enjoyable.

Of course, the classic hits of Broadway still command the most out-loud guffaws. The noble, but fated, King Arthur (of "Camelot") singing "I wonder what the

King is drinking tonight," and little gem Annie bemoaning "I'm 30 years old, tomorrow, and I haven't worked since I did Annie. . ." arouse the amount of sentiment deserving of a Greek tragic hero meeting his demise. This time, though, the sentiment is humor, not pathos.

Granted, \$34 for a pair of tickets is a rather expensive night out for a college student, but the witty revue "Forbidden Broadway" will have you "singin' in the rain," uh, aisles.



"Singin' in the Rain," in the Terrace Room at the Boston Park Plaza Hotel; a scene from *Forbidden Broadway*, 1986.

# Football — an extended metaphor for life

By JULIAN WEST

**W**ildcats, directed by Michael Ritchie, starring Goldie Hawn, James Keach, Swoosie Kurtz and Nipsey Russell

GOLDIE HAWN'S NEW VEHICLE, *WILDCATS*, may best be thought of as "football: an extended metaphor for life," or perhaps "jazzercise conquers all." It is not, thankfully, nearly so much *Rocky Plays Football*, as it is *The Bad News Chicago Bears*.

*Wildcats*, in case you haven't guessed, is the nickname of a football team. In particular, it is the varsity team of Central High, located predictably in central Chicago; one of the rougher parts of the American football mecca. This fairly obvious imitation of the Chicago Bears differs from its big-league alter ego, principally by having gone winless last season.

This year they get a new coach, Molly McGrath (Hawn), who manages to break this last bastion of male dominance by vir-

tue of the fact that no one else will take the job. Once we see the team, it is clear why. This is a none-too-serious journey into US high school hell, where the violence spills off the gridiron into the corridors. The education is so bad that one of the students still does not speak English.

McGrath whips the team into style with predictable dispatch, and then proceeds to enlist her own versions of the Bears' Jim McMahon and William "Refrigerator" Perry. The star quarterback-cum-larcenist and 300-pound budding capitalist are recruited using techniques which are unorthodox to say the least.

Once the team is revitalized, they start to win games almost immediately, guaranteeing us a movie. But there is an equally important subplot. When McGrath is not dealing with her "bastard" of an ex-head-coach, she has to cope with her "bastard" of an ex-husband, and two cute-as-buttons daughters which they once spawned and now timeshare. Thus we have a successful

career woman who also balances half a family, completing the political correctness of it all.

But if this is a feminist picture, then why are we treated to such a gratuitous scene of Hawn in the bath? Is it only to parallel the equally flimsy scene in which the opposing, evil coach takes an unintentional mudbath while shouting "drat, drat and double drat"?

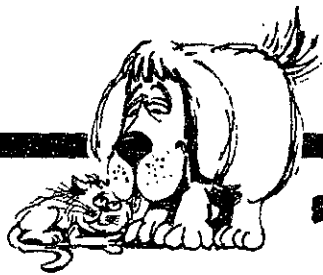
The real political sensibility in this film is one in which the polyglot inner-city ruffians are cast as the heroes. The suburban all-blond antagonists are just as rough and ruthless, but of course never get caught. All the bad guys are blondes. Blonde is so out in this picture that the blonde goodguys start dyeing their hair.

This glorification of the inner city is scarcely a new idea, but this time it is not badly done. The desirable restoration of school spirit is welcomed by the smiling principal, broadly played by Nipsey Russell. (I *knew* he looked familiar. Right.)

Moreover, this is no doubt the first film to try spinning off a hit rap song from the title music. Something of a takeoff on the Bears' *Superbowl Shuffle*, the song is reasonable enough to sit through the movie.

It is at least better than most of the other music for which the action is perpetually taking breaks. This is another one of those films which keeps breaking into mini-videos of other peoples' music. (If you listen carefully, you can even make out Thomas Dolby in the background of one scene.) This isn't so bad, since Hawn can dance much better than she can presumably throw a pigskin. What are bad (and I don't mean baaad) are the awful sight gags, and the way that these end scenes as predictably as rhymed couplets.

All in all, it is not a poor movie. Things could be much worse: the screening was preceded by a trailer for *Police Academy III*.



## Arts

# Mamet characters as skillfully observed as ever

By JONATHAN RICHMOND

**G**lengarry Glen Ross by David Mamet, directed by Gregory Mosher, Wilbur Theatre, Tuesdays - Fridays at 8pm, Saturdays at 2pm and 8pm, Sundays at 2pm and 7:30pm.

GLENGARRY GLEN ROSS BRINGS DAVID MAMET'S special world of sleaze to the Wilbur Theatre. The violence is toned down in comparison to earlier Mamet plays such as *American Buffalo*, the atmosphere is less unbearably electric, but the characters are as skillfully observed as ever, the futility of their lives as painfully drawn.

Mamet opens with three cameos set in a downbeat Chinese restaurant where real estate deals are dreamt of, planned, and occasionally won.

We focus first on John Williamson (played by J. T. Walsh) and Shelly Levene (played by Peter Falk). Shelly hasn't been doing well lately, and is desperate to get new leads from John. John makes him sweat; his deodorized cool is sadistically played by Walsh, and stands in marked contrast to Shelly's cringing. The humiliation hurts.

We meet Dave and George next, aging salesmen with crumpled run-over egos. Fi-



Peter Falk and Joe Mantegna in a scene from David Mamet's *Glengarry Glen Ross*, playing at the Wilbur Theatre.

nally we encounter Richard Roma (played by Joe Mantegna) at work with a client.

Mantegna is the perfect Mr. Slick, and his well-trained sincerity is so convincing that

he even fools himself.

Act II takes us to a recently-robbled real estate office and here the tension escalates and the necessity of inevitable failure takes over. We suspect that the deal the jubilant Shelly has brought off will fall through, and that the smile of success must be wiped off even the confidant Richard Roma's face.

Roma's encounter with his client, now sold only on pulling out of the deal Roma had previously clinched, provides one of the most powerful passages of the play. Mantegna's Roma has an immediate response for the client's every counter, but his quick-talk gets faster; he knows and we know that he is slipping. Mantegna's acting is brilliant. The venom of the dying serpent he portrays will not lessen in its flow, even though it loses in its potency. The patter is perfect, the dawning failure of the character camouflaged but painfully vivid at the same time.

Glengarry Glen Ross latches onto a slice of life and paints in its every detail. The play does have a story, but it's the atmosphere which counts, the sharing in the psyche of Mamet's slate of characters. All of the acting at the Wilbur is of a high standard; some of it is breathtaking. It's worth the trip.

## Mamet gives pessimistic lecture at Harvard

By ERIC SVEN RISTAD

**D**ecay, the Spenser Memorial Lecture at Harvard University, delivered by David Mamet on Feb. 10. (Mamet also spoke at MIT's Kresge Little Theater, Feb. 11.)

DAVID MAMET IS INVARIABLY INTRODUCED as America's preeminent playwright. His plays and screenplays include *Sexual Perversity in Chicago*, *American Buffalo*, and *The Verdict*. He was awarded the 1984 Pulitzer Prize for his play *Glengarry Glen Ross* (reviewed in this issue).

At Harvard's Loeb Drama Center, Mamet lectured on decay. What grows must, at some point, cease to grow; following a period of maturity, it must decay and die. All natural events inexorably follow this cycle.

Civilization is decaying. The current "plague of mindlessness" is an attempt to find rest by easing those thoughts that torment us, thereby hastening the cycle that engenders it.

The contemporary role of society's institutions is to hasten decay. In theatre, the agent, producer, and director all strive to spread terror, to makē the individual apathetic and afraid to perceive the world around him. Young people in the theater pursue bad acting, writing, and directing because they must make choices which inhibit thought, reflection, and release.

Mamet's philosophy offers salvation and comfort in the uncertain world that he perceives. Stoical rigorism is Mamet's prescription: keep your principles few and simple so that you can easily refer to them in times of crisis or panic. Then you will

never be at the mercy of the desire to please or to do something right in general.

For example, say your principle of poker is to win money. In a game among six people, you hold four of a suit. The odds you will fill the flush (and consequently win the pot) are roughly one in four, but the payoff is six-to-one. The axiom demands you remain in the game, regardless of whether you are anted a nickel or your life's savings. Think and bring your will to bear, or get out of the game.

According to Mamet, theatre is an expression of our primal need to invent, tell, and hear stories. The purpose of theatre is, and has always been, to address the question of how we can live in a world in which we are doomed to die. Drama is a depiction of the battle between what you

are called to do and what you actually do.

Mamet's performance was itself great drama, a celebration of his philosophy and wit. He was called to hasten the decay of theatre himself by serving the needs of a powerful university, and he rose to the occasion.

He stocially explicated his philosophy to the avant-garde of commercial influence, a shocked middle-class American Repertory Theatre audience. The form was of his choosing: he spoke briefly (scandalously so), left the stage, and upon entreaty returned to flippantly respond to disagreements posed as questions. Instead of succumbing to obeisance and apathy, Mamet provoked reflection as he struggled against the expectations of his audience and those who invited him.

The Tech Performing Arts Series presents...

### ENSEMBLE INTERCONTEMPORAIN

*Pierre Boulez program*

Pierre Boulez will conduct Ensemble Intercontemporain in a performance of his own work, *Repons*, in a special Symphony Hall concert.

This promises to be an exciting event.

February 24 & 25 at 8pm. MIT price: \$4.

### BOSTON PREMIERE ENSEMBLE

*Candlelight Salute to the Sun King*

The Boston Premiere Ensemble,

F. John Adams, conductor, will give their third annual candlelight concert, featuring soloists selected from a competition in January.

The program includes works by Lully, François Couperin, Delalande and Charpentier.

Church of the Advent, Boston,

February 22 at 8pm. MIT price: \$5.

### SINFONOVA

*World Premiere in Boston*

Sinfonova will give the World Premiere of Delalain's *Topophonnic Concerto* and perform Haydn's *Piano Concerto in D* with Aroutian Papazian as soloist for both. Tchaikovsky's *Serenade for String Orchestra* completes the program.

Jordan Hall, February 28 at 8pm. MIT price: \$6.

*Vivaldi's Four Seasons*

In our recent "The Year in Review," *The Tech* named Sinfonova's October 16 all-Mozart concert "Chamber Concert of the Year." Conductor Aram Gharabekian is one of the region's most sensitive interpreters of music, and has proved he has something fresh to say about even the most familiar of works. Sinfonova's performance of Vivaldi's *Four Seasons* with Stephanie Chase, solo violin, is therefore likely to be a very exciting event. Also on offer in this

Gala Concert will be the World Premiere of McKinley's *Sinfonova* and Tippett's *Fantasia Concertante on a theme of Corelli*.

Jordan Hall, March 15 at 8pm. MIT price: \$7.

Tickets will be sold by the Technology Community Association W20-450 in the Student Center. As opening hours are currently a bit sporadic, please call before you come. If nobody is in, please leave your order and your phone number on the TCA answering machine at 253-4885. You will be called back as soon as possible.

The Tech Performing Arts Series, a service for the entire MIT community from *The Tech*, MIT's student newspaper in conjunction with the Technology Community Association, MIT's student community service organization.

Get Out on the Town with The Tech Performing Arts Series. .!



## Pioneer the future.

Join us in creating the next generation of technological wonders. Our representatives will be on campus to discuss job opportunities in Southern California and Denver. If you are receiving a degree in:

Electrical Engineering & Computer Science  
Computer Science & Engineering  
Physics  
Mechanical Engineering

Materials Science & Engineering  
Mathematics  
Aeronautics & Astronautics

Interviews will only be scheduled on **Information & Interview Sign-Up Day**. Please see your Placement Office for more complete details.  
Proof of U.S. citizenship required for employment.  
Equal opportunity employer.

**Creativity America depends on.**

One day only.

**Information & Interview  
Sign-Up Day**

**Thursday, February 27  
9am to 3pm  
Ashdown House Dining Room**

Sign-up are for next day (February 28) Placement Office interviews.  
Please bring 6 copies of your resume.

**HUGHES**  
AIRCRAFT COMPANY

# notices

## Friday, Feb. 21

The Massachusetts Audubon Society is sponsoring a weekend symposium on **The Tropical Connection**, focusing on the importance of conservation in tropical habitats. The program will be held from Friday evening until Sunday noon at the Broadmoor Wildlife Sanctuary in South Natick, and will feature lectures and films on current environmental issues and conservation efforts in the tropics. In addition, participants will choose among a variety of Sunday morning field trips to tropical exhibits in the Boston area.

The fee for the symposium is \$65 (\$50 for Massachusetts Audubon members). For further information and registration contact Broadmoor Wildlife Sanctuary, 280 Eliot St., South Natick, Mass. 01760, 235-3929.

## Saturday, Feb. 22

The New England Chapter of the Society of Architectural Historians invites the public to its first **architectural film orgy** in 10-250. The afternoon program, 1:30 to 5 pm, presents the works of local filmmakers in two segments. In the first half, two films on architectural history will be shown; the second half will contain a contrasting pair, John Terry's *A Tale of Two Parks* (Nimes and Avignon) and one of Len Gittleman's time-lapse documentaries on the construction process. The evening program begins at 7 pm with two shorts and Michael Blackwood's hour-long *Beyond Utopia: Changing Attitudes in American Architecture*, followed by a "late show" at 8:45 pm of Jacques Tati's *Playtime*, an

intellectual comedy.

Admission is \$4 for the afternoon program and \$5 for the evening program. Tickets will be sold at the door from 1 to 1:35 pm and during the intermission for the afternoon program, and from 6:30 to 7:05 and prior to the late show for the evening program.

## Monday, Feb. 24

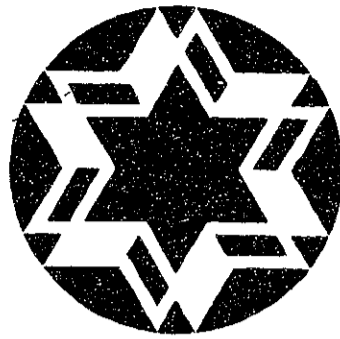
The Boston Theological Institute's Peace Education Program and Pax Christi of Cambridge are co-sponsoring a program entitled **Water to Wine: Transforming East-West Relations**, featuring a slide show with scenes from the Soviet Union. The presentation by Jim Forest, General Secretary of the International Fellowship of Reconciliation and co-founder of the Catholic Peace Fellowship, will take place at 6 pm in Washburn Auditorium, Episcopal Divinity School, Cambridge.

## Tuesday, Feb. 25

The Boston Theological Institute's Peace Education Program and the Committee in Solidarity with the Peoples in El Salvador are co-sponsoring photojournalist Wendy Shaull and a presentation of her slide show **Life Behind Guerrilla Lines** at 8 pm in the Small Ballroom at Boston University's George Sherman Union Building, 775 Commonwealth Avenue, Boston. In 1984, Ms. Shaull spent 11 months with the armed opposition and the civilian population in rural El Salvador. Her presentation will express the hopes of the majority of Salvadorans for peace and a better society.

# SHABBATON

MIT □ BOWDOIN COLLEGE □ WELLESLEY COLLEGE □ SIMMONS COLLEGE



FEBRUARY 28 - MARCH 1, 1986  
M.I.T.

"Jewish Identity: Who is A Jew?"

Sponsored by M.I.T. Hillel and OMETZ,  
The Center for Conservative Judaism  
on Campus

Spend a weekend with students from other universities. The \$16. tuition includes meals, housing, Shabbat services and study, lectures and a great time. Saturday evening everyone is invited to a "Coffee House of Classical, Jazz and Folk Music."

For further information and registration forms contact M.I.T. Hillel at (617-253-2982)

## 1986 MIT STUDENT TELETHON

TUESDAY THRU THURSDAY FOR 2 MORE WEEKS:  
2/18-2/20 • 2/25-2/27  
6-10 PM • IN THE BUSH ROOM • 6-10 PM

GRAND PRIZE DRAWING:  
PAIR OF ROUND-TRIP UNITED AIRLINES  
TICKETS TO ANY U. A. DESTINATION  
IN THE CONTINENTAL UNITED STATES!

TOP LIVING GROUP TROPHY  
AND \$100 PRIZE!

FREE PIZZA DINNER!  
FREE MIT WINE OR WATER GLASS!  
FREE PRIZES!

2/11 — Senior	CALL FOR LATEST POINT STANDINGS
2/12 — Baker, ZBT	
2/13 — PSK, SAE	
2/18* — SC	
2/19 — AEPi, McCormick, PDT, SH	
2/20 — AP, ZP('85 Champs)	
2/25 — LCA, TC	*LIVING GROUP SPACE STILL AVAILABLE AS OF 2/12
2/26* — TX, WMBR	
2/27* — SPE	

Call

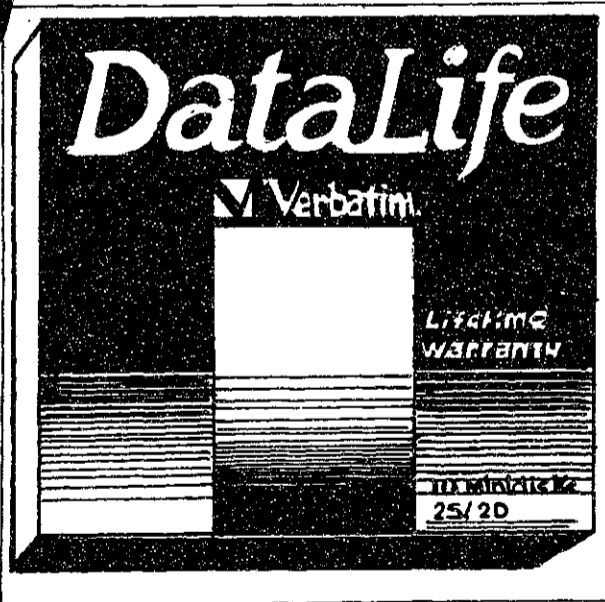
CONTACT JEFF SOLOF  
RM. 10-156 • 253-8281

Today!

PRIZES FURNISHED THROUGH THE GENEROSITY OF: Heritage Travel • Toscanini's Ice Cream • The Tech Coop • Averof Restaurant • The Top of the Hub • Narcissus-Celebration • Museum of Science • Prudential Center Skywalk • Brigham's Ice Cream • John Hancock Observatory • Nuggets • MORE TO COME!



he professional's choice



Backed by a Lifetime Warranty from Verbatim, the world's leading manufacturer of flexible disks, these DataLife diskettes are individually full-surface tested and certified 100% error-free. Discerning professionals choose Verbatim DataLife.  
Reg. 29.95 **SALE 24.95**

Verbatim HARVARD COOPERATIVE SOCIETY **the COOP**

Available at Harvard Square, MIT Student Center, One Federal St. and the Coop at Longwood, 333 Longwood Ave., Boston. Harvard Square open Mon-Sat 9:20-5:45 pm, Thurs til 8:30. Coop Charge, MasterCard, Visa and American Express welcome.

## NOW-WE'LL PAY YOU TO ATTEND MEDICAL SCHOOL

In fact, we'll even pay you more than \$600 a month while you attend. That's in addition to paying for your tuition, required books and fees.

It's all part of the Armed Forces Health Professions Scholarship Program. And here is how it works!

If you're selected for a Physician's Scholarship—from the Army, Navy, or Air Force—you're commissioned as an officer in the Reserves.

While you're in school, you'll serve 45 days a year on active duty, gaining valuable medical experience. After graduation, you will serve three or more years, the length depending on the requirements of the Service selected and years of scholarship assistance received.

As an Armed Forces physician you'll receive officer's pay and benefits, and enjoy the advantages of working regular hours. You'll also see a diversity of patients and have opportunities to use sophisticated medical technology.

But most important, while you're in medical school we'll help pay the bills. For more information, send in this coupon. There is no obligation.

**YES!** Tell me how the Armed Forces Health Professions Scholarship Program can help pay my medical school expenses. I understand there is no obligation.

Mail this coupon to: Armed Forces Scholarships, P.O. Box 2865  
Huntington Station, NY 11746-2102

9008

Check up to three:  ARMY  NAVY  AIR FORCE

Please print all information clearly and completely

Name \_\_\_\_\_  Male  Female

Address \_\_\_\_\_ Apt. # \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Soc. Sec. No. \_\_\_\_\_

College \_\_\_\_\_ Birth Date \_\_\_\_\_

Field of Study \_\_\_\_\_ Graduation Date \_\_\_\_\_

The information you voluntarily provide will be used for recruiting purposes only. The more complete it is the better we can respond to your request. (Authority 10 USC 503)



Go to bat  
against



Birth  
Defects

Support the  
**March of Dimes**  
BIRTH DEFECTS FOUNDATION

This space donated by The Tech

# Before you make a long distance commitment, make sure you know what you're getting into.



If Fletcher Christian and Captain Bligh had known what being stuck in the same boat would mean, chances are neither would have set foot aboard.

And if you're stuck in the same boat with a long distance company that doesn't give you all the services you need, it's easy to harbor mutinous thoughts.

But when you pick AT&T as your long distance company, you know you're in for smooth sailing. You'll get trouble-free, reliable service. Immediate long distance connections—even at the busiest hours. And long distance operators to assist you with immediate

credit for wrong numbers and collect calling.

And you'll get discounts off our Day Rate on your state-to-state calls. With savings of over 50% during weekends until 5pm Sundays, or nights from 11pm to 8am, Sunday through Friday. And 40% discounts evenings between 5pm and 11pm, Sunday through Friday.

So when you're asked to choose a long distance company, sign aboard with AT&T. With AT&T Long Distance Service, you'll never be left stranded. Just call **1 800 222-0300** for more information or to choose AT&T. **Reach out and touch someone.®**



**AT&T**

The right choice.

## Text of Paul Gray's remarks for Ron McNair memorial services

(Editor's note: the following is the text of the eulogy to Ronald E. McNair PhD '76 delivered by President Paul E. Gray '54 Wednesday.)

I begin with the words of the poet, Stephen Spender:

*I think continually of those who were truly great. Born of the sun they travelled a short while towards the sun, and left the vivid air signed with their honour.*

We come together today to remember — and to comfort each other in our remembering. Anyone who knew Ron McNair can tell you that he truly was born of the sun. His brief time with us was one of stellar achievement, bright promise, clear vision, and disarming and gracious generosity. As one of the sons of MIT, Ron stood out in that great company of self-starting high achievers. He set extraordinary standards for himself — higher than anyone else would dare set for him — and then met and exceeded those standards. He did

so through patient hard work, through a firm and shining belief in his capacity to achieve his dreams, and through an indomitable spirit.

The promise he represented for future leadership — national leadership — in a nation with too few heroes, was evident to all who knew him. As we look at the roster of aspiring leaders on the national scene, how many hold within themselves the integrity, the wisdom, the judgement, and the personal achievement that we came to expect of this man?

Ron understood instinctively that he represented, for a whole generation of younger people at MIT and around the nation, a symbol, a shining example of what dedication and risk-taking and hard work and faith and self-confidence could achieve. He was very generous in sharing with us his experience and his perspective. He was at MIT several times following his first shuttle flight in 1984, and his rapport with students here — indeed with all who

(Please turn to page 17)

## Text of Feld's remarks

(Editor's note: the following is the text of remarks made by Michael S. Feld '63 at the memorial service for Dr. Ronald E. McNair PhD '76.)

Two weeks ago, in a terrible blinding flash, the lives of seven outstanding young people were consumed. One of them was Ron McNair.

For the eight years from 1969 to 1976, Ron's cheerful presence brightened the grey basement halls of MIT. He has literally hundreds of friends here, many of whom are here today. As Clarence Williams likes to say, Ron was a man for all seasons. He knew who he was, he knew where he wanted to go, and he believed that he could get there. He was a student here and a teacher. He was a group member and a group leader. He was a man of the body and a man of the mind, and he could break a pile of bricks with the same ease with which he could write down Maxwell's equations. He believed in himself and had a deep religious faith.

Yet Ron was not invincible, as we all can now see. To the contrary, he was deeply human, and the trait which distinguished him from most people I know was an extraordinary ability to bring to bear all his physical, mental and emotional powers to any goal he set for himself.

He believed it was important to "hang it over the edge." I remember when we were planning a symposium here to celebrate his first shuttle flight, I asked him

what title he would choose for his lecture, and he said, "I've got a kind of crazy idea for a title, 'Being a Winner/Hanging It Over the Edge,' what do you think, Mike?" I remember thinking, "well that does seem crazy."

We now know what Ron had in mind. Hanging it over the edge means setting the most daring personal goal you can possibly hope to reach, and then devoting all your powers of mind and body and spirit to achieving it. Ron believed in being daring — not, of course, in taking irresponsible risks, but daring to go to the limits of one's abilities, and perhaps a little beyond.

And in his talks and speeches to friends and well-wishers, and especially to minority youngsters, Ron made this his message and his theme. That it is possible, starting from a cotton field or a ghetto, for a young person to reach great heights — not by becoming invincible, which is, of course, impossible — but by recognizing the limits of his or her humanness, and daring to go a bit beyond them; and certainly not by being drawn back from the edge by voices of fear, gloom or defeat.

The terrible fireball has taken Ron from among us, and we deeply grieve his passing. Ron is gone. There is no changing that. The rest of us must ask where we go from here. It is not always easy to draw strength from disaster. In the past couple of weeks I

(Please turn to page 19)



Dear Dr. Advice,

Last week I went on a blind date. She was the most beautiful girl I ever met. When I first saw her, my heart beat so fast I thought it would jump out of my body and compete in a 440 dash. I wanted to impress her; so impulsively I took her to the best restaurant in town.

All was going well and I anticipated the beginnings of a beautiful friendship. Maybe more. What I didn't anticipate was her appetite. She ate enough to feed a track team through a week of tough workouts. When the bill came, I didn't have nearly enough cash.

She was polite enough about paying her share. But when I called her up the next day, she disguised her voice to sound like an old woman and informed me that, misery of miseries, her dear college-aged granddaughter had just left town to join a travelling dance troupe.

What did I do wrong?

-Undernourished and Underloved

### DEAR UNDER,

Love is a funny thing, eh? One minute you're staring into the warm depth of someone's eyes; the next minute you're staring into the cold recesses of an empty wallet.

You did two things wrong. First, you tried to impress her with food. That's the way to a man's heart. Second, you forgot that no one is impressed when you invite them out and then can't pick up the check. Next time, remember to take along something that will impress her: the American Express® Card.

### YOU CAN GET THE CARD NOW.

Because we believe that college is the first sign of success, we've made it easier for you to get the American Express Card. Graduating students can get the Card as soon as they accept a \$10,000 career-oriented job. If you're not graduating yet, you can apply for a special sponsored Card. Look for student applications on campus. Or call 1-800-THE-CARD, and tell them you want a student application.



© 1986 American Express Travel Related Services Company, Inc.



Get your career off to the right start with the company that started a revolution in the CAE industry. Our fully-integrated, high-powered, Apollo-based workstations have changed the way designers work. We've captured the lead in world CAE sales, and we're expanding our efforts in both hardware and software.

If you want to do things right, do them at Mentor Graphics. We currently have opportunities for:

Software Development Engineers  
Hardware Development Engineers

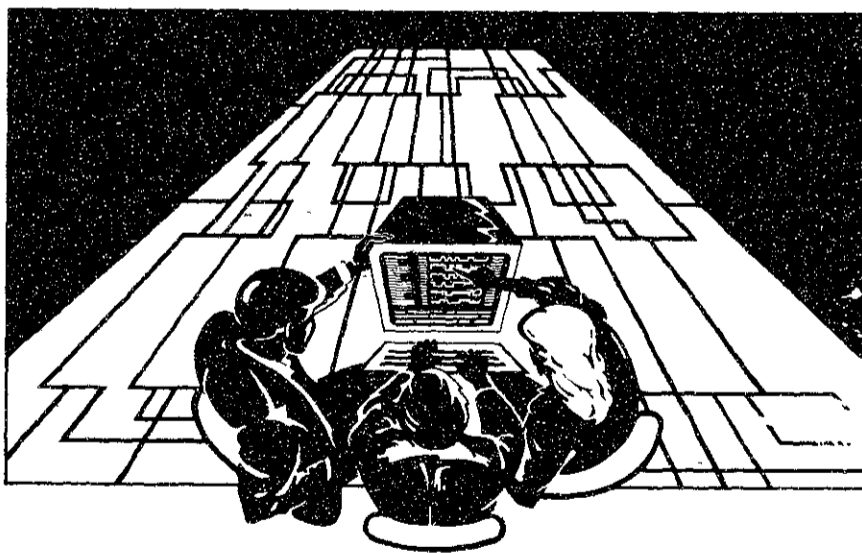
To Find Out More  
See Us On Campus

Thursday or Friday,  
February 20, 21

See Placement Office For Appointment

If you can't attend, send your resume to Mentor Graphics, College Relations Dept., 8500 S.W. Creekside Place, Beaverton, OR 97005-7191. We are an affirmative action and equal opportunity employer.

Mentor  
Graphics™



Start your career  
the way we started  
our company. Right.

**BIG NEWS!**

HOW TO  
BE  
FIND A  
GOOD LOVER

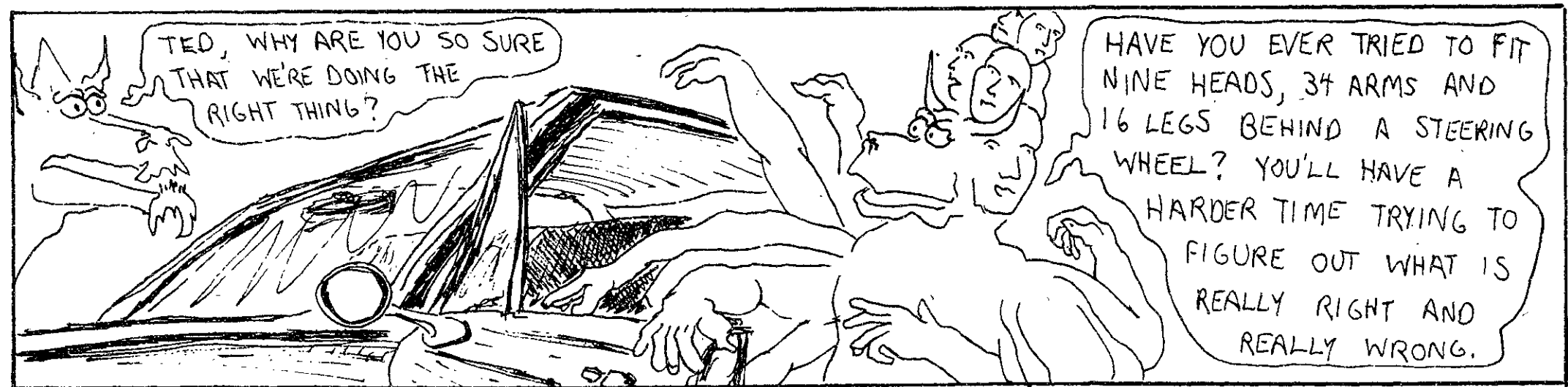
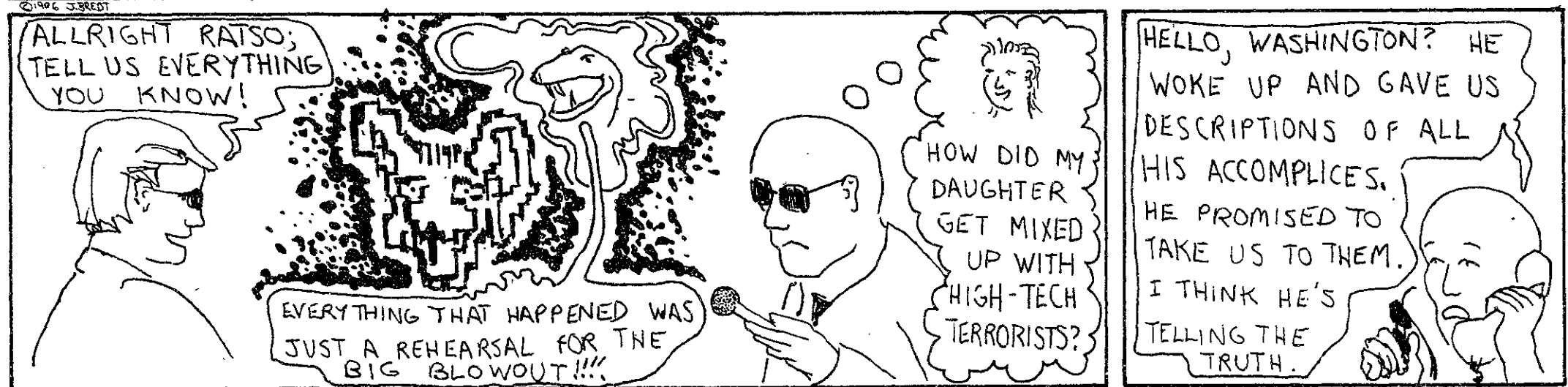
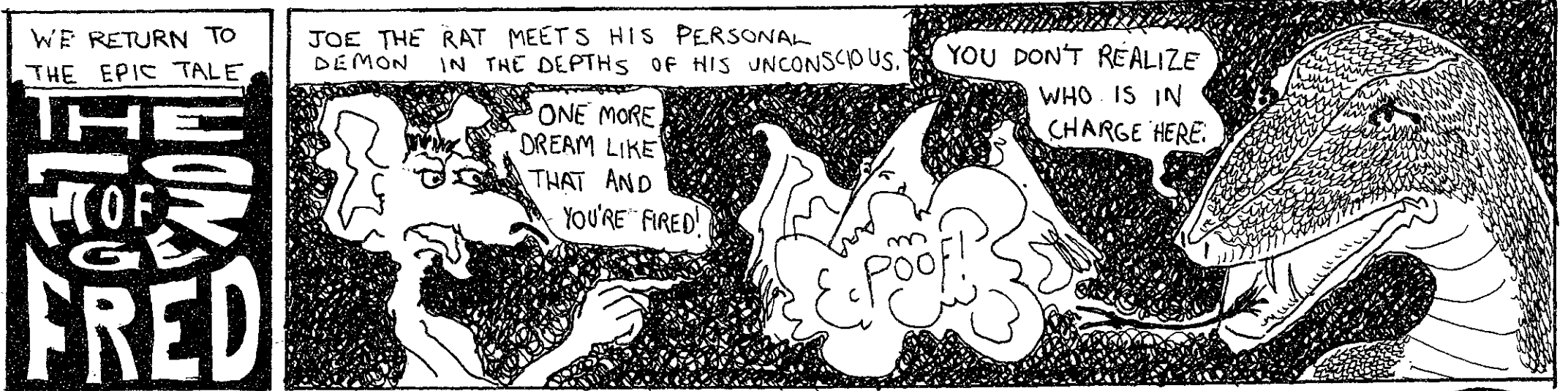


a 45 min. film  
with  
Refreshments  
and  
Ice Cream !!

spon. by Campus Crusade for Christ  
of MIT.

# The Legend of Fred

By Jim Bredt



## Text of Gray's McNair eulogy

(Continued from page 15)

came into contact with him — was singular and very impressive. We are diminished — the nation is diminished — because of that terrible moment in the flight of Challenger.

The horror and shock of Ron's death haunts us all. The sense of irreplaceable loss — hard to bear for each person who loved him — impossible to imagine for his wife, his parents, his children, numbs our minds and chills our hearts.

And yet, there is — in this moment — cause for something beyond despair. Alfred Lord Tennyson, writing of another hero in another age, put it in these words:

*Death closes all: but something ere the end, some work of noble note, may yet be done, not unbecoming men that strove with gods.*

I suggest that the "work of noble note," which Ron McNair began and to which many can now

contribute, is the task of communicating his dream — his wisdom — to the generations to come. It has the power to ennoble, the power to inspire, the power to cause people to achieve impossible goals. His is the contribution of the great teacher — a contribution that persists from generation to generation, and we are his acolytes.

Ron was a man of deeply felt, vigorously lived religious faith. And it is fitting, I believe, to conclude with words from the Book of Philippians — words that speak to the place he holds in our minds and in our hearts:

*Finally, brethren, whatever is true, whatever is honorable, whatever is just, whatever is pure, whatever is lovely, whatever is gracious, if there is any excellence, if there is anything worthy of praise, think about these things. What you have learned and received and heard and seen in me, do; and the God of peace will be with you.*

## 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.

### Sunday, Feb. 16

The Crash-B Sprints, a mid-winter rowing regatta featuring world-class oarsmen and oarswomen, will be held at the Rockwell Cage. Elimination heats will begin at 8 am and finals at 3 pm. All races will be computer-timed at the distance of 500 meters (about 9 minutes rowing time). Relative positions during each race will be computer-displayed. Bleacher seats for spectators will be available. A team point trophy and a collegiate point trophy will be awarded. The host organization for the regatta is Crash-B, an association of recent and cur-

rent Olympic and National Team oarsmen who row and train in the Boston area. For further information, call Geoffrey Knauth at (617) 547-5247.

### Wednesday, Feb. 19

The Campus Activities Office will be sponsoring the annual scheduling meeting for the West Plaza Complex at 2 pm in the Mezzanine Lounge. Student activities interested in reserving space for Fall 1986 and Spring 1987 should attend. Contact: Jo Buck at x3-7974.

### Thursday, Feb. 20

A seminar entitled **Integrating Optical Storage: Videodisc, CD and CD-ROM** sponsored by the MIT Communications Forum will be held from 4-6 pm in the Bartos Theater of the Wiesner Building. The speakers will be Eric Brown, LaserData, Inc.; James DeVries, LaserVideo, Inc.; Brian Croxon, Newport Systems. Open to the public.

### Ongoing

Undergraduates who are interested in communicating with high school students (and guidance counselors) what it's like to be an MIT student are encouraged to join **Project Contact**. For more information please contact the Educational Council Office, 4-240, 253-3354.

## Learn Other Students' STRATEGIES FOR SUCCESS at MIT

*"Managing time at MIT: Can you do it all?"*

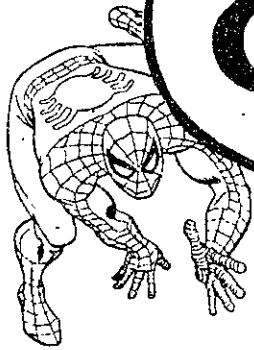
Wednesday, February 19, 7pm  
West Lounge, Student Center

*"Exam Savvy: Putting it all together"*

Monday, February 24, 7pm  
Mezzanine Lounge, Student Center

Sponsored by the Undergraduate Academic Support Office

SPIDER-MAN & DAREDEVIL  
1986  
MARVEL COMICS GROUP



# NEW ENGLAND COMICS

OPEN SEVEN DAYS!



Call for more info:  
**783-1848**

**139a BRIGHTON AVE., ALLSTON**  
NEAR CORNER OF Harvard Avenue  
**EASY TO REACH** from Kenmore and Harvard Squares  
as well as from **ALL OVER** Boston!

## 30% off SALE

on all new comics & bin back issues. **20-50% OFF** wall comics, supplies, etc! Runs **Friday, Feb. 14 thru Monday, Feb. 17.**

\*\*\*\*\*  
★ JOIN US IN WELCOMING ★  
★ **VIJAY & ALAN** ★  
★ formerly of Newbury Comics. Special ★  
★ **BONUS** to their former customers! ★  
\*\*\*\*\*

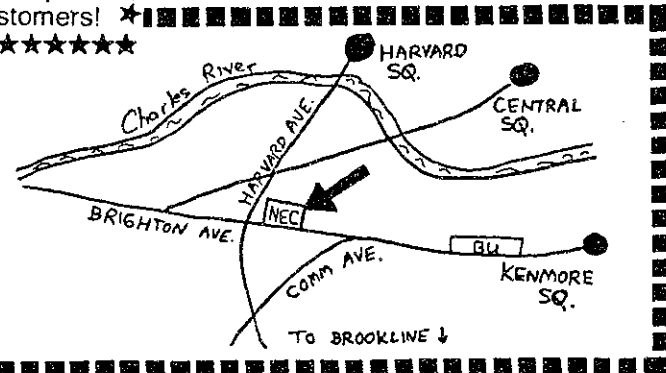
## SUBSCRIBERS:

See why our Sub Service is the **BEST** in Boston!

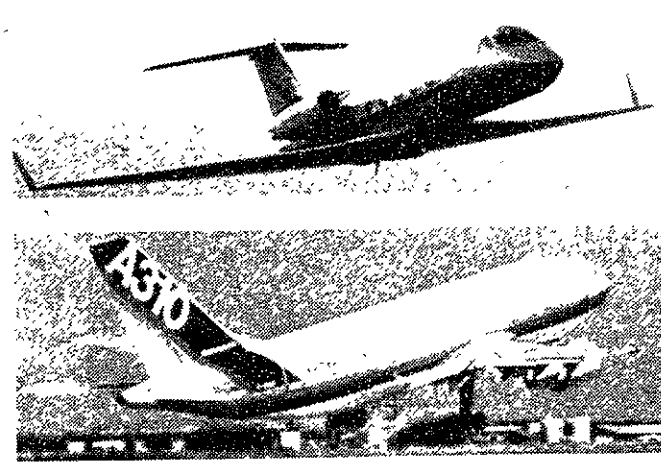
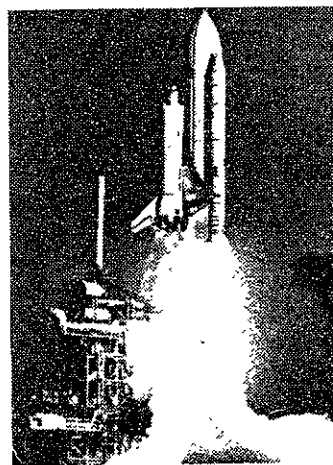
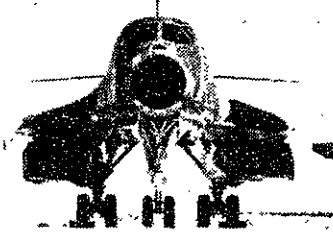
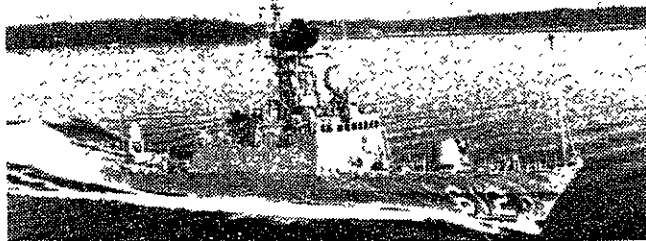
1. **NO** deposit required.
2. 20% off **EVERYTHING** in the store.
3. Our guarantee: You will **never** miss a comic!
4. **Error-Free** fast computerized service.
5. NEC **"EXCLUSIVES"**: We get some titles **before** every other store in Boston! Call and find out this week's **"EXCLUSIVES"**!

### DIRECTIONS:

**From the City:** Take the "B" Green Line to Marty's Liquors. Walk one block north on Harvard. Turn right onto Brighton Avenue.  
**From Harvard:** Take #86 Allston bus to Brighton Ave. (corner of Blanchard's)



## ELDEC



## DIVERSITY IS STRENGTH

Diversity. It allows ELDEC to offer a varied, challenging and stable career in high technology electronics. Quality, custom-designed products and innovative problem solving have earned us a strong position in aerospace and marine markets for both commercial and military customers.

An established corporation with over \$78 million in annual sales, ELDEC is located just north of Seattle which means employees enjoy the unmatched lifestyle of the beautiful Northwest.

ELDEC systems cover a wide range of customer needs. Our solid state proximity switches and computer-based logic and control systems inform flight crews of critical aircraft functions. ELDEC produces small, lightweight, ruggedly packaged aircraft battery charger systems and high and low voltage power supplies. We're also involved in the design and manufacture of electronic monitor and control systems for aircraft, ships and space vehicles.

Our future is one of steady growth and technological achievement. Diversity is strength. Diversity is ELDEC.

**COMMITTED TO PERFORMANCE..**



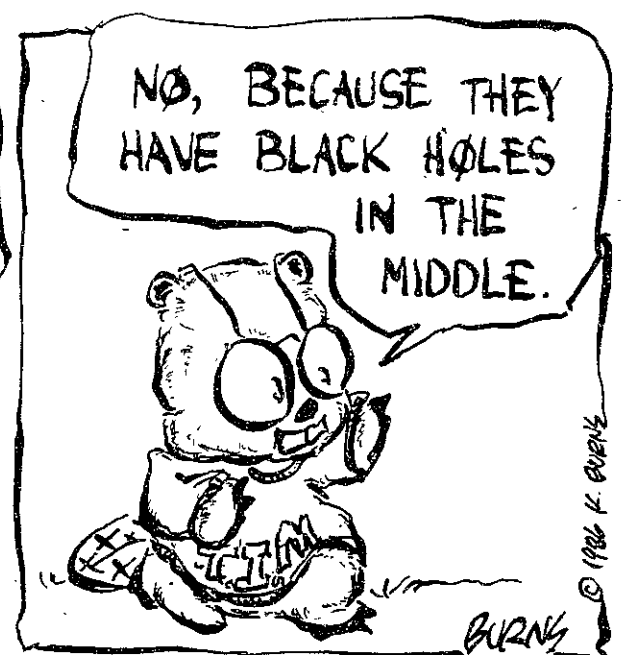
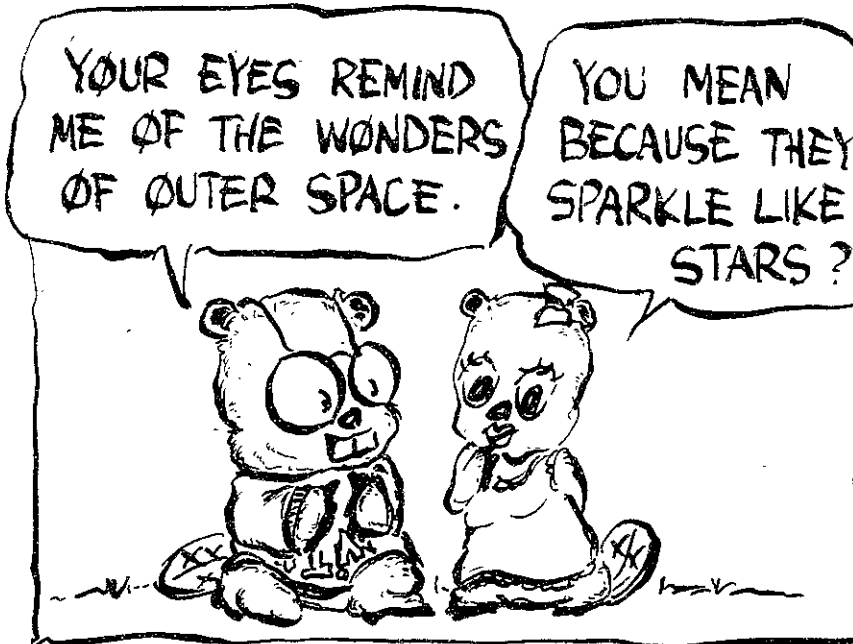
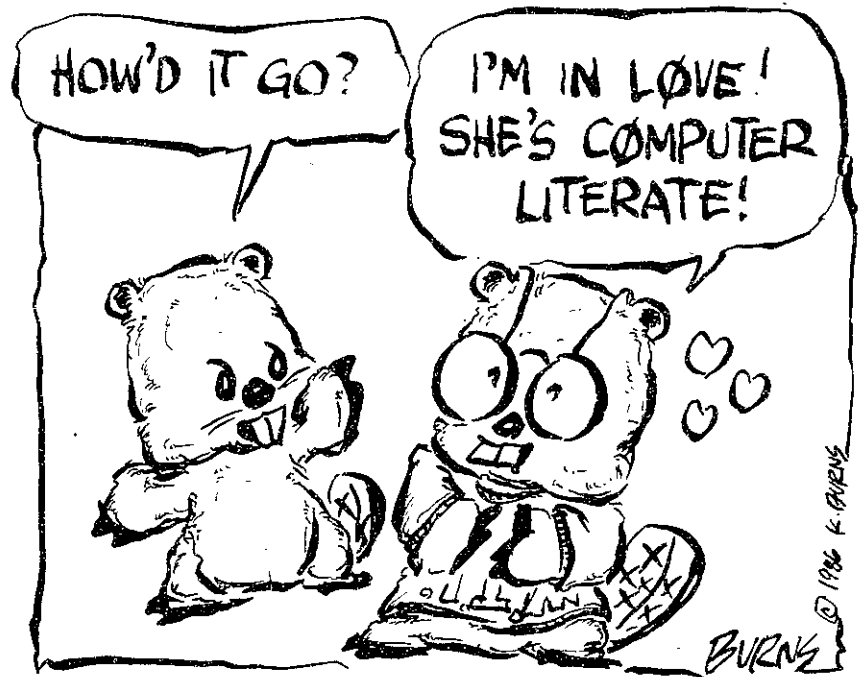
We will be on campus for interviews on February 24. Contact your placement office for details.

ELDEC is an EEO/AA employer.

# comics

.T.I.M Beaver

By Kevin Burns



## ON-CAMPUS INTERVIEWS TUESDAY, FEBRUARY 25

**WE'RE A GROWING COMPANY  
WITH A BIG REPUTATION**

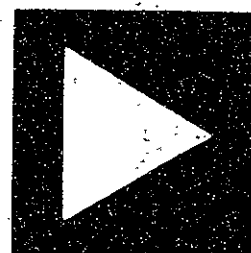
That isn't surprising when you consider we're the world leader in monolithic data conversion circuits and other special purpose devices for measurement and control.

We have challenging opportunities in many aspects of analog and digital signal processing design, development and manufacture. Representative job titles include IC Design Engineer, Product/Test Development Engineer, Linear Circuit Designer, Computer-Aided-Design (CAD) Engineer and Applications Engineer.

If you are looking for early career responsibility, small-company visibility and continuing growth projections in excess of 25% a year, please sign up with your Office of Career Services, 12-170.

For further information, see your Career Service Office or write:

Analog Devices, Inc.  
Manager, College Relations  
Two Technology Way  
Norwood, MA 02062



**ANALOG  
DEVICES**

An equal-opportunity/affirmative action employer.



# sports

## Volleyball spikes Harvard Men's team sweeps to its third straight victory

By Mike Ressler  
and Karen K. Koyama

The MIT men's volleyball team crushed the Harvard Crimson in a 15-7, 15-13, 15-0 sweep on Tuesday in Rockwell Cage. The victory raises MIT's NCAA record to 1-1 and its overall record to 3-1.

In the first game, both teams played extremely well. MIT battled to a 6-5 lead on strong hitting from Armando Hernandez '86 and Kyung Kim '87.

But then the Engineers suddenly broke the game open. Two kills from the middle by Eric Daly '87 and a pair of blocks by Paul Stuopsis '87 and Young Soo Ha G fueled MIT's surge to a 12-5 score.

Harvard picked up a pair of points, but Ha responded with two point-winning jump serves, bringing Tech to game point. Daly then pounded a quick set from Sang Hoon Han '86 to finish the game.

The second game opened with both teams playing hard but

without the finesse seen in the first game. MIT was unable to get its serving game off the ground, and the two teams committed a total of nine misseives in the game. The Engineers' offensive attack stayed tough and MIT fought to a 15-13 win.

In the third game, Harvard substituted at least four reserve players into the game in an apparent attempt to get some new momentum.

But the substitutions only added to Harvard's frustration. Her-

nandez and Ha had several service aces each, and both Harvard's offense and defense made numerous mental errors. Harvard was blanked in the third and final game, 15-0.

The game was MIT's first volleyball match against Harvard as an NCAA team. The Engineers played Northeastern last night, and travel to the Wentworth Institute of Technology on Feb. 16.

(Editor's note: Mike Ressler '86 is a member of the men's varsity volleyball team.)



Tech photo by Kyle G. Peltonen  
MIT men's volleyball defeated Harvard Tuesday for their third consecutive win of the season.

## sports update

### Hoopster tops in District 1 voting

Martha Beverage '87 was the top vote-getter in Division II and III women's basketball in District 1 for the GTE Academic All-Americans. The District 1 Team includes all of New England, New York State and parts of Canada.

### Like father, like son

Men's basketball head coach Fran O'Brien's son Kevin O'Brien was named Brandeis University head coach on Friday. Kevin served as Brandeis assistant coach for five years. Kevin also played basketball at Tufts University.

Alison C. Morgan

## classified advertising

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

**Part-time = \$\$\$**  
National Marketing Co. has flexible morn/eve hours available in Cambridge office. We have a \$5.00 per hour guarantee with the opportunity to earn \$8-\$10 per hour. Call 547-4002.

**Patent law firm** seeks student having native speaking command of Japanese to translate technical disclosures into English. Mechanical or Chemical Engineer preferred. Work load flexible. Payment/per word. Send resumes to Steven Weissburg at Pahl, Lorusso & Loud, 60 State Street, Boston, MA 02109, 723-8880.

**HOUSING FOR WOMEN** off Mass. Ave. in Back Bay. Clean. Safe. Meals included. Sorority-like living. Good study environment. Lots of fun, too. SPACES STILL AVAILABLE. Call Bayridge Residence at 536-2586 or 266-3371.

**THE TERMINAL EXCHANGE** rents computer terminals! You can access your schools computer (or any other) from home! Call today for all the information with no obligation! 731-6319.

**YOUNG TRAVELLERS NEWSLETTER!** Includes: 800 no.; travel partner service; features on exotic OVERSEAS budget travel, work, study! Send check (\$12/yr.) to: Y.T.N., P.O. Box 3887, New Haven, Ct. 06525.

**Immediate Openings** for computer programmers with 2-3 years experience in "C"; knowledge of dbase III and/or financial applications helpful; requires thorough knowledge of IBM PC's; part or full time; flexible hours, location. 1-256-9567.

**Original Movie Poster for Sale.** Send for free list. IM MARKETING 1775 Broadway - 7th Fl., New York, NY 10019 (212)246-1482. Psycho 3 \$10, Jewel of the Nile \$8, Rocky IV \$10, White Nights \$8, more.

**Found** - bicycling gloves, near medical building. Call Allen x1762.

**Do an Engineering friend a favor.** Send them a free copy of *Experienced Engineer*, the new career magazine for young engineering and computer professionals. Send their (or your) name, address and college to: Experienced Engineer, 14540 Hamlin Street #D, Van Nuys, CA 91411.

**Attention International Students:** Recently published, International Student's Handbook, A step-by-step guide to greencard from student visas or exchange visas. For free details write: Immigration Publications, PO Box 515991, Dallas TX 75251.



## ENGINEERING GRADUATES

The more you have to give,  
the more you have to gain.

## WATKINS-JOHNSON

If you're looking for real project responsibility right from the start... Watkins-Johnson is the place! The more you put in, the more our flexible, fast-paced program has to offer — challenge, educational incentives, and professional dialogue with some of the best minds in the electronic industry.

For over 27 years, Watkins-Johnson has been developing new microwave electronic products — devices and systems — for defense, communications and commercial applications. And, although we're one of the biggest names in the industry, our total employee population of 3,000 worldwide ensures that you'll never be just another face in the crowd.

If you have an excellent academic record and are graduating with a BS, MS or PhD in one of the following disciplines, let's talk about opportunities at our San Jose, Palo Alto, Scotts Valley, CA and Gaithersburg, MD facilities.

### DISCIPLINES:

- EE ■ CS ■ PHYSICS
- MATERIAL SCIENCE

### ON-CAMPUS INTERVIEWS

Wednesday & Thursday,  
February 26 & 27

Please contact your Placement Center or phone Mike Avina, Watkins-Johnson Company, 3333 Hillview Avenue, Palo Alto, CA 94304. (415) 493-4141, Ext. 2114. An equal opportunity employer m/f/h/v. U.S. Citizenship is required.

