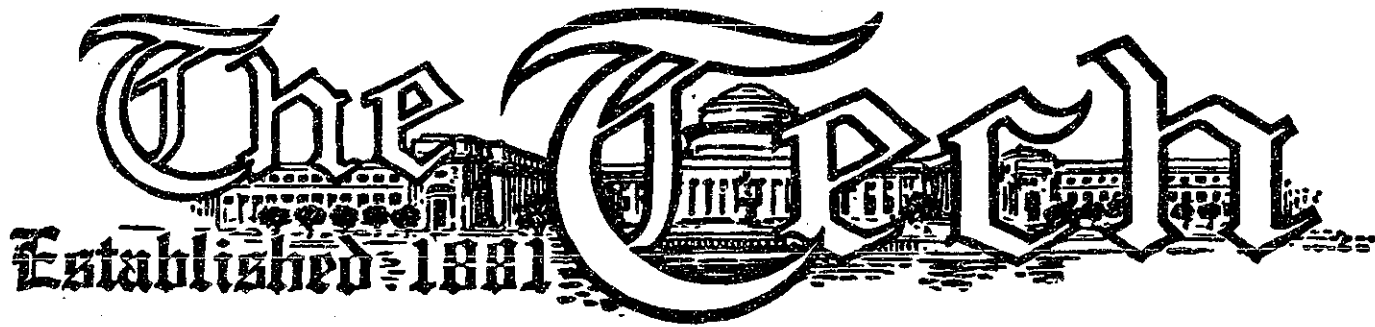


MIT's
Oldest and Largest
Newspaper



The Weather
Today: Mostly sunny, 62°F (17°C)
Tonight: Increasing clouds, 45°F (7°C)
Tomorrow: Rain showers, 52°F (11°C)
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Volume 114, Number 18

Cambridge, Massachusetts 02139

Tuesday, April 5, 1994

NSF Review Puts Funding For Haystack in Jeopardy

By Ramy A. Arnaout
ASSOCIATE NEWS EDITOR

As astronomers at MIT's Haystack Observatory prepare grant proposals for submission next month, high among their concerns will be the effects of last summer's National Science Foundation review of academic radiotelescope observatories, which ranked Haystack last out of five.

The NSF ranking has jeopardized this year's grant award to the observatory and may reduce future operations, researchers said.

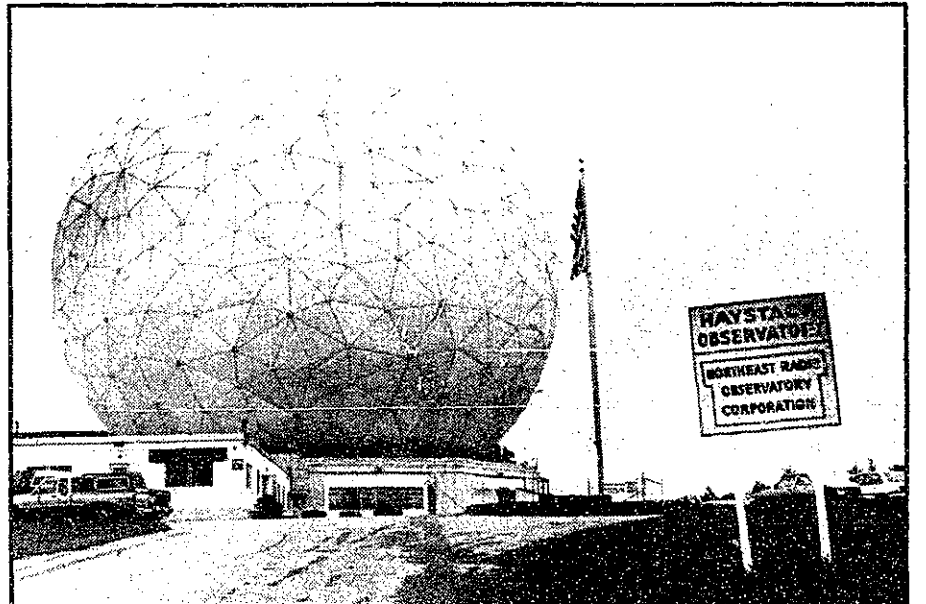
The ranking came despite a \$1.5 million, NSF-funded telescope and antenna upgrade. The upgrade was in its final stages when the review took place.

While the review committee said that "there was some excellent science" going on at Haystack, faculty and students agree that the last ranking was because the telescope upgrade was still in progress.

"When the NSF panel arrived, we had had only one 3- or 4-month period of 'real life' tests of the upgrade," said Joel Kastner, an astronomer who has been working with the new antenna.

"That's definitely not enough time to evaluate the impact of the

Haystack, Page 9



DONNA COVENEY—NEWS OFFICE

The Haystack Observatory



THOMAS R. KARLO—THE TECH

Rebecca Milham '94 breaks past her defender before scoring MIT's first goal against Mount Holyoke College, breaking a seven goal run by the opposing team. MIT lost to Mount Holyoke 14-5 in the Saturday afternoon game.

Grocery Shuttle To Start

By Daniel C. Stevenson
ASSOCIATE NEWS EDITOR

A grocery shuttle for MIT students organized by the Graduate Student Council and sponsored by Laverde's Star Market will begin operation this Saturday. The shuttle will pick up students at several MIT locations for the 15 minute trip to the Medford store.

David S. Cuthbert G organized the grocery shuttle, after raising the issue at the January GSC meeting. "I contacted several of the local retailers," Cuthbert said. Stop and Shop and the Star Market chain both turned down the offer, he said.

Cuthbert then contacted Frank Laverde, owner of Laverde's Market in the Student Center and the store in Medford. Laverde agreed to help fund the shuttle.

Laverde's Star Market is a full service supermarket in a shopping plaza, and includes bakery, produce, deli, and other traditional sections. It honors Star specials and accepts Star coupons, Laverde said.

The store is "less expensive than Cambridge," according to Laverde. Its prices are lower than prices at Purity Supreme and Stop and Shop in Cambridge, he said.

Positive student response

Cuthbert distributed a survey about the grocery shuttle in January. The survey asked about potential use of the service and if students were willing to pay for it. Cuthbert received over 250 positive responses to his survey, and many students said they would spend a dollar more for the shuttle, he said.

A second survey found that 85 percent of students interested in the shuttle favored the arrangement with Laverde, who offered to cover the expenses of the shuttle, estimated cost at \$120 to \$150 per week, Cuthbert said.

Howard D. Lewis '95, a Bexley resident who buys most of his own food, said that it is inconvenient to carry groceries back from the T stop after grocery shopping off-campus. The grocery shuttle would be useful, Lewis said, as long as it was able to

UROP, Page 7

Shuttle, Page 7

Seminar Seeks to Stamp Out Racism on Campus

By Rishi Shrivastava
STAFF REPORTER

The Office of the Dean for Undergraduate Education and Student Affairs sponsored a seminar called "Eliminating Racism" last Saturday.

The seminar aimed to help students and staff deal more effectively with race relations and to strive towards eliminating racism on campus, said Ayida Mthembu, assistant dean for counseling and support services. "We are training students to conduct these seminars for the future," Mthembu said.

Only 13 students attended the 7-hour seminar in the Black Students' Union room in Walker Memorial. The low turnout was a disappointment to organizers and participants.

Despite the low turnout, seminar participants were pleased by all they accomplished. "I thought it was pret-

ty good. It was very conducive to the discussion," said Teresa Lau '95.

"Not only was it instructional and educational," but it also provided "an educational experience with something we can actually go out and apply," said Interfraternity Council President Prashant B. Doshi '95.

"It was good for people to talk about this stuff," said Pamela Prasartongosoth '97.

Staff members of the Dean's Office ran the seminar along with other staff members from area universities. Susan D. Allen, adviser to student activities, and Mary E. Ni, assistant dean for residence and campus activities, attended the seminar.

Matt Ouellet, who works at the University of Massachusetts at Amherst, was also very pleased with

Racism, Page 6

Tsao, Chitaley Organize UROP Lobbying Effort

By Jeremy Hylton
CHAIRMAN

Undergraduate Association Vice President Anne S. Tsao '94 is organizing small groups of students to work as UROP evangelists in the MIT community — as part of the effort to solve the funding problem facing the Undergraduate Research Opportunities Program.

"These people are going to go out into the community to motivate and inspire," Tsao said.

Students need to become better informed about the problems facing UROP and need to help raise awareness of the problem in the federal government, Tsao explained.

Tsao will also distribute packets that will tell students how to write letters to their senators and representatives asking them to help save UROP funding.

Starting July 1, the cost to a pro-

fessor of hiring UROP students will increase by more than 125 percent as a result of new federal rules about overhead costs and employee benefits.

While the full repercussions of the new rules are not entirely clear, some professors have said they will stop hiring UROP students because they will cost too much money.

"The problem is as bad as we thought it was going to be," explained Raajnish A. Chitaley '95. "People are severely cutting back on their UROPs."

Chitaley is a member of a working group appointed by Provost Mark S. Wrighton to examine solutions to the funding problem. The group will make a report to Wrighton by May 1.

In the past, UROP had secured a

WORLD & NATION

Court to Hear Veteran's Challenge

THE WASHINGTON POST

WASHINGTON

The Supreme Court Monday agreed to hear a challenge to a ruling that the Department of Veterans Affairs fears will overrun it with costly medical claims.

For at least 55 years the VA has denied benefits to thousands of veterans who say they were injured during the course of treatment at its facilities. The department has held that only individuals who can prove their care either was faulty or that they were harmed accidentally should be entitled to government benefits.

Last September, in a ruling that stunned senior VA officials, the U.S. Court of Appeals for the Federal Circuit rejected the department's argument, saying that the VA had by regulation twisted "the plain language" of a 1924 law. The court declared that Congress clearly wanted the VA to provide benefits to its patients regardless of whether any fault or accident could be proved.

The consequences of the ruling, if the Supreme Court lets it stand, could be huge for the VA, which for decades has run the largest hospital system in the country and has had virtually no legal scrutiny of its regulations. Worried about the ruling's fiscal impact, the Clinton administration appealed the decision to the Supreme Court, arguing that the cost to taxpayers could be "approximately \$1 billion over the next five years."

As many as 6,000 veterans have claims pending against the department and the VA initially said they could run as high as \$5 billion over several years. That figure was lowered, after veterans groups complained that the department had overstated the cost.

It is expected the court will rule on the dispute during the first half of 1995.

Court to Decide Whether Air Travelers Can Seek Damages

THE WASHINGTON POST

WASHINGTON

The Supreme Court Monday announced it would decide whether disgruntled air travelers can seek money damages in state courts when airlines change the rules for frequent flyer benefits.

A ruling on whether the 1978 Airline Deregulation Act pre-empts state complaints on frequent flyer benefits could affect numerous other grievances that air passengers have brought to state courts in recent years, for example, when they have been involuntarily bumped from crowded planes.

The current lawsuit, American Airlines vs. Wolens, was brought by members of American's frequent flyer club, known as the "AAAdvantage Program." They allege that when American, in 1988, retroactively modified the rules for members' use of their frequent flyer miles, the airline reduced the value of the credits, breached its contracts and defrauded AAAdvantage members. They sued under an Illinois consumer fraud and deceptive practices law seeking damages for losses as well as punitive damages.

Rejecting American Airlines' attempts to get the case dismissed, the Illinois Supreme Court ruled last year that the frequent flyer claims do not relate to the rates, routes or services of an airline, which federal law governs.

"A frequent flyer program is not an essential element to the operation of an airline," the state court held. "Indeed, the airline industry functioned successfully for decades prior to providing incentives to its travelers in the form of frequent flyer programs."

Mexican Government Says at Least Seven People Were Involved In Assassination of Candidate

THE WASHINGTON POST

MEXICO CITY

The Mexican government announced Monday that at least seven people were involved in the March 23 assassination of presidential candidate Luis Donaldo Colosio and that more than one gunman may have opened fire.

Special government investigator Miguel Montes Garcia said that in addition to the accused gunman, Mario Aburto Martinez, at least four individuals have been charged as conspirators in the killing of Colosio while he campaigned in the border city of Tijuana. Two other alleged accomplices remain at large, Montes reported.

No motive has surfaced for the killing, but the announcement Monday was likely to buttress beliefs of a political motivation rather than the deranged-killer version put out by the government until now.

As candidate of the ruling Institutional Revolutionary Party (PRI), which has not lost a presidential election since 1929, Colosio's election to the presidency was virtually assured.

WEATHER

April Showers

By Michael Morgan
STAFF METEOROLOGIST

A showery weather regime will begin tomorrow and last through a portion of Thursday. Temperatures will remain mild.

Today: Partly to mostly sunny and mild. High 59-64°F (15-18°C).

Tonight: Increasing clouds and mild. A few showers may arrive by dawn.

Low 45°F (7°C).

Wednesday: Cloudy with rain and rain showers. High 52°F (11°C).

Wednesday night: Cloudy with showers. High 48°F (8°C).

Thursday: Cloudy with a few showers early then clearing. High 53-57°F (12-14°C). Low 40-45°F (4-7°C).

North Korea Unyielding On Inspection Demands

By R. Jeffrey Smith

THE WASHINGTON POST

WASHINGTON

Last week's tough talk by the Clinton administration and the United Nations about North Korea's nuclear program seemed Monday to have created more apprehension among North Korea's neighbors than in Pyongyang, which illustrates the challenge of quickly halting the country's nuclear ambitions.

In a statement, the North Korean Foreign Ministry rejected the U.N. Security Council's non-binding demand for full inspections of its nuclear facilities. The statement also denounced the United States for escalating international pressure it said was aimed at "stifling" North Korea.

As North Korea remained unyielding, some officials from neighboring Japan and South Korea signaled that they are nervous about the impasse and want Washington and other nations to renew a diplomatic dialog with North Korea.

U.S. officials said the reactions in Tokyo and Seoul reflect the special insecurities felt by officials there because of the military threat posed by North Korea's million-member army and its development of a ballistic missile arsenal. Both governments have long been ambivalent about the wisdom of pursuing a confrontational approach toward North Korea, the officials said.

As one U.S. official said, "On Mondays, they complain that we're being too soft. On Tuesdays, they fear we're too hard." The ambivalence, he said, is rooted in uncertainty in all three capitals about which approach will induce North Korea to halt its nuclear program.

Another official said that when Washington blows hot, its allies in the region blow cold to ensure that North Korea knows the door is still open for a peaceful settlement.

When Washington is pushing a diplomatic track, its allies might call for more toughness so the coalition does not lose "face" through excessive compromise.

North Korea, in contrast, has given little diplomatic ground in the past year while continuing to improve and expand its ability to produce plutonium for nuclear arms. It has responded, or threatened to respond, to Washington's tough remarks with harsh acts of its own.

In Monday's statement, carried by the official Korean Central News Agency, North Korea said the U.N. Security Council censure left North Korea with "no alternative but to put on the normal track our peaceful nuclear activities which have been unilaterally frozen" since diplomatic talks got under way with Washington last year.

U.S. officials interpreted that as a threat by North Korea to resume the plutonium production for nuclear arms and to conduct other nuclear activities without scrutiny by inspectors at the International Atomic Energy Agency (IAEA).

If carried out, the U.S. officials said, the North Korean threat would abrogate a pledge the country made last June and terminate any possible diplomatic dialogue between Pyongyang and Washington. But they noted that North Korea has

made the same threat before without acting on it.

In South Korea, meanwhile, some newspapers denounced the tough talk about North Korea by Perry. Students there burned U.S. flags over the weekend and carried signs telling Perry — who warned that Washington was determined to block North Korea's development of a substantial nuclear arsenal — not to meddle in the region's affairs.

Washington was surprised by press accounts of a statement by South Korean Vice Foreign Minister Hong Soon-young on Sunday that the government might be willing to drop a key demand in its impasse with North Korea. The concession hinted at by Hong involved South Korea's acceptance of a North Korean timetable for exchanging diplomatic envoys.

A spokesman for South Korean president Kim Young-Sam quickly disavowed Hong's statement, but the report left an impression in Washington that officials in Seoul were getting nervous about the impasse and wanted to strike a deal. North Korea previously said it would allow full inspections only after the envoy issue was resolved.

Japanese Prime Minister Morihiro Hosokawa also raised questions in Washington by calling Monday for combined efforts by China, South Korea, Japan, and the United States to persuade North Korea to resume talks about the nuclear issue. Hosokawa made his statement in a press conference with South Korean Foreign Minister Han Sung-Joo, who was visiting Japan after three days of talks in Washington.

Markets Drop Sharply In Spite of Clinton's Appeals

By Jay Mathews

THE WASHINGTON POST

NEW YORK

Unmoved by a weekend of Clinton administration appeals for calm, the stock and bond markets dropped sharply again Monday as long-term interest rates reached their highest levels since Clinton took office.

Few analysts Monday risked precise predictions about how far the financial market slide would go, but some economists said it could become a threat to continued economic growth if the decline makes it harder for businesses to raise funds.

The cash that once flowed into the markets on a wave of optimism about a growing, low-inflation economy has begun to recede as inflation fears push up interest rates. Mutual fund managers say they are detecting signs of outflows after several years when money poured into retirement funds and other investments, pushing stock prices steadily higher.

The bond market's increasing fear that higher inflation rates loom pushed the yield on the benchmark 30-year Treasury bond to 7.40 percent Monday. In other words, investors are demanding a higher return than they did the day Clinton was inaugurated, when the yield was 7.32 percent.

The American economy, by all statistical signs, is at its healthiest point in years, but stock and bond investors ignore that and worry about the future when they expect their investments to pay off.

Investors interpret robust growth of incomes and jobs now as indicating that inflation down the line will be higher, and U.S. stock and bond prices weaker, especially when

compared with competing investments.

Some bond experts suggested that the rapid rise in interest rates could soon do significant damage to the economy as homes and business loans became difficult to obtain.

Other analysts said the economic data did not justify such concern and that the Clinton administration still had much to be thankful for. "In the final analysis people will make their judgments much more on the basis of rising incomes and jobs than on the behavior of the financial markets," said Paul Isaac, chief economist at Mabon Securities.

Council of Economic Advisers Chairman Laura D'Andrea Tyson discounted the notion that rising interest rates necessarily threaten sustained economic growth. "The truth is that there is no magic level at which you would worry or not worry about interest rates," she said, because "interest rates are jointly determined with many other things going on in the economy."

Tyson said the strength of recent economic indicators "suggests that if anything the economy might grow a little faster than 3 percent" in 1994, which is the administration's official forecast for gross domestic product growth this year.

Asked about the interest rate surge during a television interview in Cleveland Monday, Clinton said "interest rates are still lower than they were at the bottom of the recession." He said the rates were "still too high" and that he thought "they'll come back down" but said, "I don't think there's any reason to be worried about the long-term health of the economy."

After the stock markets closed,

the president said, "We'll get through this if everybody will just remain calm and let the market work itself out. It's going to be fine. We just have to ride it through."

The stock market began the day with a feverish reaction to the report of massive job growth, released Friday when equity markets were closed for the Good Friday holiday. The Dow fell more than 80 points, then some economists pointed out that the jobs report indicated economic slack that would ease pressure to raise wages and inflationary pressures. Investors also took heart from a few analysts who recommended stock purchases.

Byron Wien, chief market strategist at Morgan Stanley & Co., told investors during a morning conference call that the stock market appeared to be stabilizing, and recommended reducing the cash portion of their portfolios — always large in times of uncertainty — to 10 percent or less from the 13 percent recommended earlier.

Stocks rallied, but in the early afternoon the bond market took another deep dive, causing interest rates to rise. Analysts said they had reports of forced sales by investors who would have preferred to stay in the market but had borrowed heavily in anticipation of a healthy market and needed to pay off debts. Crude oil for May delivery also rose \$1 a barrel to \$15.79, stoking inflation jitters.

"It will be very difficult for the stock market to rally before the bond market rallies," said Eric T. Miller, chief investment officer at Donaldson, Lufkin & Jenrette Securities Corp.

Arkansas Wins on Thurman's 3 in Final :50

By Don Markov
THE BALTIMORE SUN

CHARLOTTE, N.C.

He came.
He saw.
They conquered.
With their First Fan, Bill Clinton, looking on from a skybox at the Charlotte Coliseum, the Arkansas Razorbacks beat Duke Monday night at its own game — the NCAA final — to win this year's national championship.

After overcoming a 10-point deficit early in the second half, and nearly letting a five-point lead slip away, the Razorbacks broke a tie on a three-pointer by Scotty Thurman with 50.7 seconds left and went on to beat the Blue Devils, 76-72.

An uncharacteristically bad shot by Duke (28-6) and a rushed three-pointer by sophomore guard Chris Collins on his team's next possession opened the door for Arkansas (31-3). But the Razorbacks didn't close it completely until Clint McDaniel hit the second of two free throws with nine seconds left to give Arkansas its championship.

Sophomore forward Corliss Williamson, named the Most Outstanding Player in the tournament, scored 23 points in leading Arkansas to the first national championship by a Southeastern Conference team since Kentucky beat Duke in 1978. Thurman added 15.

"I saw the shot clock winding down," Thurman said of his game-winning shot. "I really had no choice but to put the shot up. Somebody had to step up and do it."

Grant Hill, whose three-pointer tied the game at 70, was held to 12 points on four-of-11 shooting. Hill also had 14 rebounds.

The victory gave Arkansas coach Nolan Richardson his first NCAA championship, and maybe some of the respect he so covets. He did it with the Razorbacks playing Duke's half-court game, and doing a little better than the Blue Devils. He did it by beating Mike Krzyzewski, whom many consider the John Wooden of his generation.

"I think of all the mothers and fathers I talked to through the years and what this means to them. ... It's

one of the greatest basketball games, one of the greatest feelings I've ever had from the standpoint of athletics," said Richardson. "I'm so proud of the young men who came up here tonight and how they handled themselves when we were 10 points down.

"It's just a great feeling."
After a 16-4 run by the Razorbacks had erased a 10-point Duke lead early in the second half, when Arkansas built its lead to 61-56 with 6:42 to go, the Blue Devils looked like they were fading. But appearances can be deceiving, especially when it comes to a team that has spent so much time in the NCAA final.

Trailing 62-57 with a little under six minutes left, Collins nailed back-to-back threes to put Duke ahead, 63-62, with five minutes to go. The Razorbacks went back ahead on two free throws by Corey Beck (15 points, 10 rebounds), and extended it to 67-65 on a free throw by Williamson. But freshman guard Jeff Capel hit a jumper after Hill missed to tie. Williamson scored again with 4:06 left for a 67-65 lead.

Capel then fired a crosscourt pass over the head of Collins and into the second press row. Dwight Stewart was a foot short on a three, but Williamson pulled down the air ball, went up for the basket and was fouled. He completed the three-point play for a 70-65 lead. Antonio Lang then cut Duke's deficit to three by hitting both ends of a one-and-one with a little over three minutes left.

The first big run of the game came early in the second half. It wasn't Arkansas that made it, but Duke. Trailing 38-35 with less than a minute gone in the half, the Blue Devils ran off 13 straight points in one minute, 48 seconds. And Hill figured into nearly every play during that stretch.

During the stretch, he had a pair of free throws; fed Collins and Capel for three-pointers after getting double-teamed, stripped Williamson of the ball that led to a three-point play by Lang and forced Arkansas guard Corey Beck into a turnover. Capel's three-point shot gave Duke

a 48-38 lead with a little over 17 minutes left and forced Richardson into a timeout.

But to their credit, the Razorbacks came storming back with a run of their own. They picked up the level of their defensive pressure and forced the Blue Devils into three straight turnovers, five on eight possessions, and a couple of rushed shots. They started getting the ball inside to Williamson and outside to Thurman. They forced Krzyzewski into calling timeout himself.

And they came back with a 14-4 run of their own to tie the game at 52 on a free throw by Beck with 12:37 to go. Both teams started to seem a little tired, as Hill and Thurman missed threes, Hill lost the ball on a drive, and Williamson missed three easy shots and committed two quick fouls, giving him three with 11:30 left and a seat on the bench.

Finally, after another Duke turnover, Clint McDaniel finished a 16-4 run that gave the Razorbacks the lead at 54-52 on a layup with 11:05 left. Duke center Cherokee Parks tied the game on a put-back of a Hill miss to end a four-minute drought for the Blue Devils.

Arkansas had a chance to get the lead back after two more turnovers, but couldn't. Finally, after Hill lost the ball again, Darnell Robinson hit a foul-line jump shot for a 56-54 lead. The Blue Devils kept missing, and fouling.

Duke went over the limit with 8:12 to go, as Lang picked up his third shortly after getting his second. Reserve guard Al Dillard missed the front end of a one-and-one, but Dwight Stewart got the rebound. He fed Dillard, who hit a three-point shot from the left corner for a 59-54 lead with a little more than eight minutes left.

The Blue Devils got a major scare moments after the opening tip when Hill, coming down with a rebound of a Williamson miss less than 20 seconds into the game, fell flat on his back. He was helped up, walked slowly off the court and sat out for nearly a minute.

But in a way, it might have given an early wakeup to the other Duke players, who remembered playing

well when Hill got into foul trouble against Purdue in the Southeast Regional final and they were able to survive. Lang scored the game's first basket and Hill returned shortly thereafter.

The Blue Devils used their early 5-0 lead to control the tempo in the first half, never allowing Arkansas to make one of its patented, and potentially game-breaking, runs. The Razorbacks led for the first time, at 13-11 on a three-point shot by Clint McDaniel with a little under 13 minutes left, but Duke answered right back with a layup by Lang.

With Hill held in check by double-teams, Lang came up big for the Blue Devils. An 18-footer from the left side gave Duke a 20-15 lead. After the Razorbacks had come back to tie at 25 with 4:31 left on a power drive by Williamson, Lang scored again. It was his fifth basket in six attempts in the first half.

After a steal and layup by freshman point guard Jeff Capel made it 29-25, the Blue Devils slapped the floor and the pro-Duke crowd

roared its approval. But the Razorbacks slapped back, at least figuratively speaking, by tying the game on layups by Williamson and point guard Beck, who posted up Capel. After two more lead changes and another tie, Arkansas took the lead again.

A three-point shot by Thurman put Arkansas ahead, 34-33, with 1:29 left in the half. Hill missed for Duke, but made a terrific block on Williamson at the other end as he tried to go in for a dunk. Capel, showing his inexperience and his inability to get the ball to Hill, shot a 5-foot air ball in the lane and Darnell Robinson missed at the buzzer.

The half ended with Hill directing some angry words at Robinson and then pulled Capel, with five of Duke's 11 turnovers, aside as they headed off for the dressing room.

While Lang finished with 10 points, it was a quiet half for Hill, who had only five on two of four to go along with five rebounds and four assists. Williamson led the Razorbacks with 10.

Russian Crash May Have Been Caused by Teen Playing Pilot

THE WASHINGTON POST

MOSCOW

A Russian-leased passenger jet that crashed in Siberia last month killing all 75 people aboard may have been sent into a nose dive by a teenager playing pilot at the controls, according to unofficial reports here.

There is still no word from Russian aviation investigators on what caused the crash of the French-made Airbus A-310, which was en route from Moscow to Hong Kong March 22 when it suddenly went into a steep descent for at least two minutes before hitting the tundra near the Mongolian border.

But media reports in recent days point to a scenario in which the 15-year-old son of one of the pilots may have been allowed near the controls of the aircraft and could have accidentally disengaged the autopilot by pushing against the control wheel.

"Cockpit voice recorder readings indicated that the youth inadvertently knocked off the autopilot and fell against the control column as his father and other crew members stood behind him," said the English-language newspaper Moscow Times, which ran the most detailed account of the incident. The paper quoted unnamed officials of the Transportation Ministry and the Russian airline Aeroflot.

Graduate Student Council

All graduate students are welcome to attend any GSC meeting.

Nominations will also be accepted from the floor at the meeting. To vote, you must be a Department Representative or a Housing Representative. Contact the GSC for details.

GSC Elections and Full Council Meeting Tonight, April 5, at 17:30

current candidates:

for President:
Roger Kermode
Stan Reiss

for Vice-President:
Joe Bambenek
Assef Zobian

for Secretary:
Susan Ipri

for Treasurer:
Patrick Wojdowski

Graduate Teaching Awards

Nominations for your favourite Professor or TA in a graduate course must be delivered to the GSC office, 50-220, or by email to gsc-awards@mit by Thursday April 7.

New GSC project: The Grocery Shuttle. Free roundtrip transportation from MIT to a full-size Star Market in Medford on Saturdays, starting April 9. Three departures, at 11, 12 and 13; go to the GSC office, 50-220, for detailed schedules.

HCA Meeting Tuesday April 11 at 17:30 in 50-220. Free food!



The Muddy Charles is now $2\frac{1}{3}$ nonsmoking.

The Coop Board Elections - Rosaline Gulati and Stan Reiss. Be sure to vote! due April 15

Investment and Insurance Seminar by a Pro from Prudential

Tues., 4/12, 5:30-6:30 3-133

SafeWalk is a new program to help you get home more safely. Call 2-1300 on Sunday, Wednesday and Thursday nights between 22:00 and 03:00, and a fluorescent green SafeWalk patrol will walk you to your dorm, to the SafeRide, or to the T. Contact Susan Ipri slipri@mit or Ken Porter kporter@mit for details.

OPINION

Undergrad Dictatorship Always an Option

Guest Column by Hans C. Godfrey

I have been at MIT for a number of years now (10 or more the legends say) and in that time I have gained a certain amount of wisdom about how the student body operates. For the most part, undergraduates tend to concern themselves with their studies, a particular sport or extracurricular activity, their living group, and very little else. At the extremes you have two sets of students: very outgoing people that participate in several activities across the campus and try to make a difference (or pad their resume), and those that don't really much care but like to flame about everything under the sun.

Over the years I have seen this last group not so much grow, but get ever louder. They don't make a real effort to research any of the facts connected with campus events or situations, but without a doubt they'll have an opinion about the situation. One of their primary focuses for complaint is of course the Undergraduate Association — tied for first place with Physical Plant and ARA (whoops, I meant MIT Catering).

These people will maintain against all reasonable evidence that the Undergraduate Association is a closed clique of greasy politicians whose only desire is to hobnob with the administration. It's not as if the people that participate in the UA are actually fellow undergraduates who decided to sacrifice a great deal of their free time and run for offices which are open to any undergraduate to run for. Obviously, the UA is some shadow organization which through some highly undemocratic, super secret process chooses the leaders for the undergraduates. Yep, that's gotta be the truth ... and President Chuck Vest is probably in on it, too. Well, if undergraduate government on this campus has sunk so low then there can be but one solution. Actually, there can be several solutions, but I'm lazy. Anyway, government must be reformed to fit the needs of changing campus.

So, to have some fun for a change, I say the undergraduates (as if you had a say) should abandon any last vestiges of the democratic process. Since the campus seems to be sliding into apathy anyway, there are several forms of governance far more suited to an uncaring electorate. Let's take a look at two, the dictatorship and the corporation.

Undergraduate Dictatorship

Let's take a fictional dictator, say, Manish Bapna, and put him at the head of the government. Let's not worry about Mr. Bapna's qualifications for the job because that's a state secret. In truth, it should be the favorite government of all undergraduates because it absolves you of any responsibility for what your (I mean his) government does. Think about it. Right now if things are going badly there are several ways for the undergraduates to change things for the better. Under a dictatorship *el jefe* has to shoulder the entire burden. How about this for a sample conversation:

Dr. Vest: So, Manish, what would undergraduates think of a freshman dorm?

Bapna the Great: Silence, I alone have a say!

Dr. Vest: But this issue has ramifications for the entire student body in regards to the operation of R/O. Additionally, it would have a tremendous impact ... er, effect ... on the financial situation of ILGs. Don't you think that ...

Bapna the Magnificent: Quiet knave! What care I for the welfare of the masses. My satisfaction is paramount. I alone shall decide the good!

Dr. Vest: But ...

Bapna the Big Dog: Yes, there shall be a freshman dormitory. That way I will more quickly be able to indoctrinate the masses into worship of me. Make it so!

Truly this form of government would make life much simpler. The dictator could handle all of the business affairs of the UA and come to think of it, the Association of Student Activities, Interfraternity Council, Dormitory Council, and let's throw in the Graduate Student Council too. All financial allocations, all Institute committee nominations, all judicial cases, all housing disputes, every last decision the dictator could make. Think about all of the bureaucracy that could be eliminated with a few quick strokes of the pen. Hell, who even needs a written constitution — the dictator could make it up on the fly. He'd be all that and a bag of chips!

If the masses (that's you) ever get oppressed too much then it's a simple thing to launch a *coup d'etat*. That in itself would be reason enough to have a dictator. They used to have tuition riots to blow off steam, a *coup* could be the modern incarnation of that august tradition. Just failed a quiz, Coop rebate went negative, didn't get enough money in your group's UA Dictator allocation? Hey, launch a *coup*. Then you could have all the power, the Vannevar Bush '16 Fund, etc., etc. With all the advantages to this system I'm surprised that the practical-minded engineers haven't already implemented it.

Undergraduate Corporation

The second model that might be effective would be a corporation, run by a board of directors. This one has all sorts of potential and would probably be the next best thing to a UA Mafia. The Finance Board could act as a loan service (with 10 percent interest compounded semi-daily) to student groups — forget grants. The Nominations Committee could be a placement service for students: "Want to be on the Committee for Academic Performance? That'll be \$50." Professors could even get in on the act: "Gee, I'd like all 7s on my Course Evaluation Guide evaluation. No problem professor I'm sure that for a small fee we could accommodate you." The UA would be raking in the dough like nobody's bid'ness. If we wanted to expand we could even take the company public and sell stock to students (or anyone else).

With that kind of cash to work with, all sorts of wild stuff could happen. If *The Tech* starts giving the UA bad press, then we just buy them out and make it *The Tech* — a wholly owned subsidiary of the UA. Yeah, then we could really get some tangible student services going. Rocket elevators in the Student Center, turn Transparent Horizons into slag, liquid nitrogen for everyone — you know, the

important stuff.

Now before some of you explode in righteous rage at the utterly ridiculous spout rendered above, chill. Being stuck in an environment like MIT seems to change people. It's highly competitive here and undergraduates seem to forget that the people they read about in *The Tech* and *The Thistle* are students just like them (kinda). Although both those publications raise some provocative questions and at times may even raise a valid point or two, they both leave out quite a bit of information relevant to their stories and, whether intentionally or not, hurt hard-working undergraduates in the process.

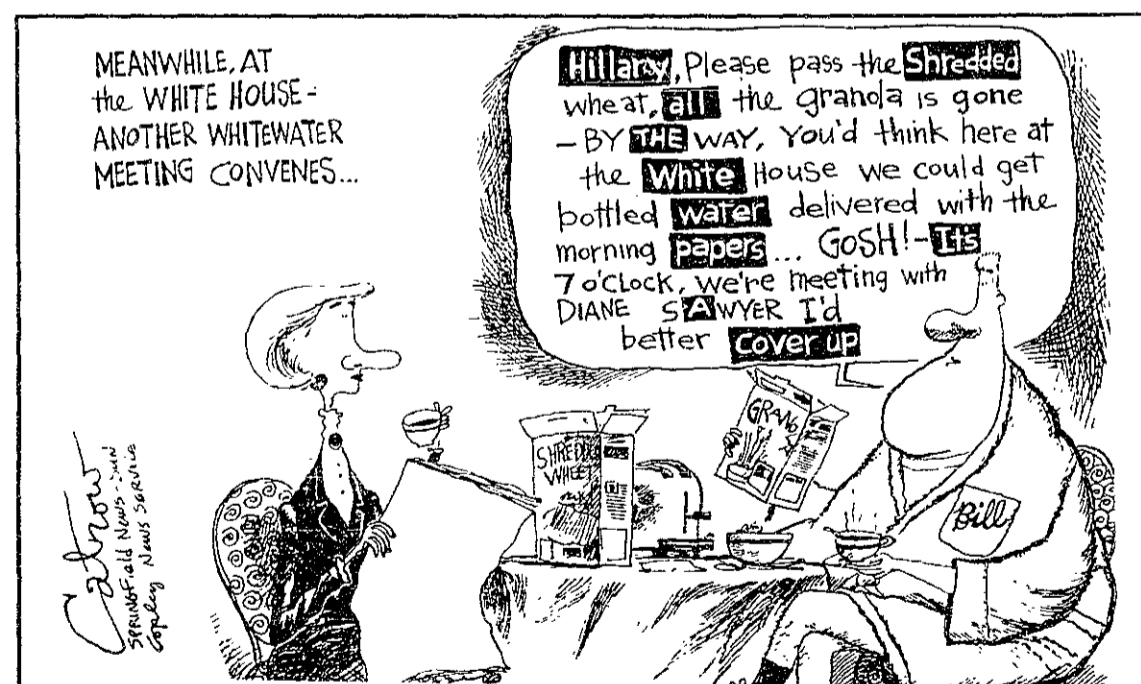
Take a moment and think. How busy are you handling the details of your life at MIT. Now add to that holding a position of responsibility (snicker, snicker) like UA President or UA Finboard chair, etc. It is not a pretty sight. I don't mean to ruin your picture of plotting and scheming politicians, but if that's how you like your politics, please focus your attention on the national scene and not the campus. The UA in its recent history has not been a closed set of people. How can the only organization on campus which holds campus-wide elections for office be an insular clique? The truth of the matter is that people here want to get things done in a hurry and when things don't change fast enough or in the way they like, they need a scapegoat. The UA has always been the convenient scapegoat for students and administrators alike.

More installments to come ...

Now *The Tech* is no place to debate the issues involved here because there are simply too many. However, over the next few weeks before I leave office I would like to write several columns detailing exactly what the UA (actually the UA government because all undergraduates are members of the UA) does and the situations facing it. I'm doing this for several reasons and from the point of view that I'm a lame-duck president. I'm tired of hearing all the bickering about the UA trying to dominate this or that, or that the UA is trying to tax us unmercifully. Some of the things I hear make the UA sound like one of the most powerful and evil organizations at MIT (i.e. the Academic Council). I would like to clear the air and give everyone some meaningful reference points from which to cast scorn or accolades. Then if you really want to argue, you have a real basis on which to build your arguments.

Next week I think I'll write about the UA budget, the UA Finance Board, and you.

Outgoing Undergraduate Association President Hans C. Godfrey has seen the light and regrets not devoting his free time to The Tech instead of the UA.



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Positive Steps Taken for Education Policy Reform

Column by Michael K. Chung
OPINION EDITOR

Educational policy seems to have taken a turn for the better recently. On Thursday, President Bill Clinton passed the long-awaited Goals 2000 school reform bill. This bill will provide federal funds to states and school districts which adopt standards to meet federal guidelines regarding students' progress and achievement throughout their education.

Also becoming prominent in the issue of education is the feasibility of morals and values education — an editorial in *The Boston Sunday Globe* claims that emphasis on "community building and what Alexis de Tocqueville called the habits of heart: neighbor caring for neighbor, personal responsibility, personal respect, and respect for others" is a worthwhile lesson for citizens regardless of age ["Lessons in character," *The Boston Sunday Globe*, April 3].

The synthesis of the Goals 2000 program and the ideology of providing students with a strong moral base is an extremely potent reform measure not only for education, but also for helping to combat some of the problematic social issues that America faces today — teenage pregnancy, and drug and alcohol abuse, among others.

However, it is absolutely essential that such moral issues are not neglected in the household. It is true that many students live in broken homes, have ineffective communication with their parents, or have apathetic or even misguided parents. Obviously, programs which focus on moral development may inspire such youths to aspire to a productive

education, and help to focus them on the attainment of that education.

Utilizing the educational system to provide the nation's youngsters an ethical foundation, is certainly not a new idea — historically, young students have been taught, directly or indirectly, good manners, proper behavior, and moral virtue to at least some extent. For instance, the stories read by and to children often have themes promoting themes such as positive interaction with others, obedience to elders, and not harming people.

The school is not necessarily the proper place to heavily emphasize moral values, but it is a reasonable place to round out a student's education, since everyone has to go to school while young. The apparent lack of values and moral guidance across the nation can be partially blamed for some social issues and problems — drive-by shootings and drug-related crime, to mention a few examples. The government cannot (and should not) go into homes and tell people how to live or how to raise their kids.

Of course, implementation of such potentially powerful policies will result in high expectations of the general public. If, after implementation of such "character building" programs, social problems among youngsters persists, or worsens, fingers will inevitably be pointed at the educational system and the government that administers the changes.

Nevertheless, it appears favorable and convenient to interweave these programs because money is required to do anything, and \$700 million will be given to the program in 1995. Also, immediate action must be taken to attain

the goals by the year 2000, and the upcoming moral building would only help matters.

To use the allocated money effectively, several issues in addition to those outlined in the Goals 2000 plan ought to be considered. For example, perhaps teachers' salaries should be raised to provide monetary incentive and reward to teachers, and so that potentially good teachers may be more attracted to the profession.

Parents not actively involved with their children's education should be motivated and encouraged to become more involved.

The possibility of longer school days or a longer school year to cover the moral educa-

tion in addition to conventional material should be considered as well.

The passage of the Goals 2000 program is an important step forward in education. It establishes goals for the students of this nation. The additional focus on moral and ethical development is certainly worthy of consideration and implementation within the present school system. By providing revenue, Goals 2000 can effect its goals by adopting such a program of encouraging moral virtue. Whatever the case, parents must ultimately assume responsibility of their children, and do whatever is necessary for their proper development and maturity.



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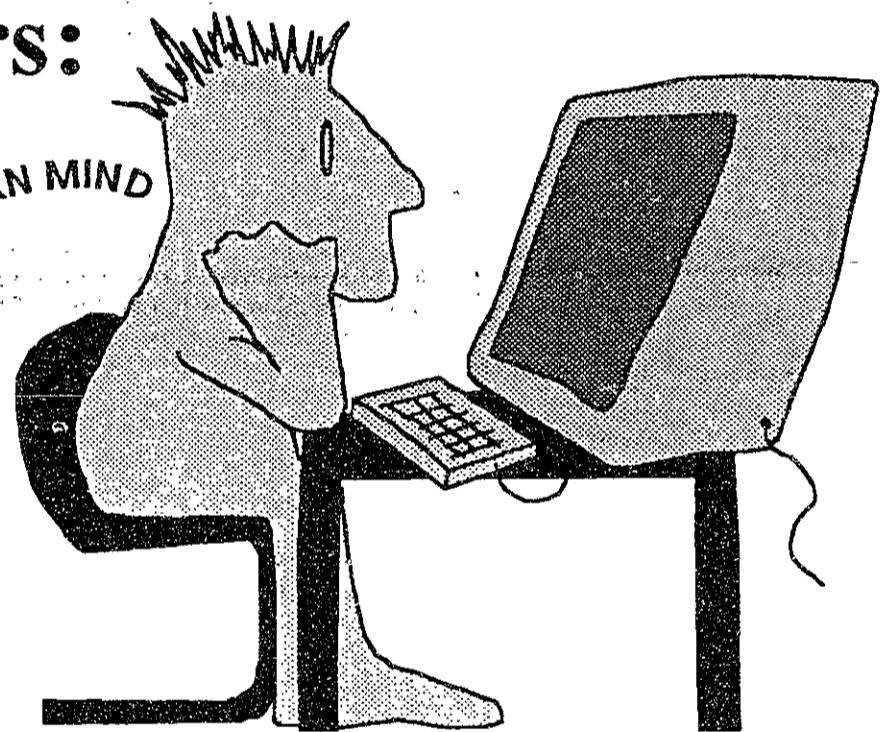
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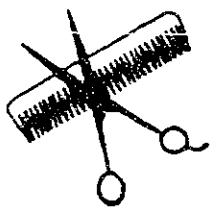
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The Student Telephone Fundraiser will be responsible for contacting MIT constituents by telephone for the purposes of soliciting support/gifts for MIT's Annual Fund. Students will be contacting both graduate and undergraduate alumni throughout the country by telephone and generating interest in supporting MIT's Annual Fund. Student Callers will be required to schedule and work a minimum of 8 hours each week. Callers will be expected to meet both quality and quantity calling standards of the program. Student callers will participate in an initial training program which will include information about the MIT Annual Fund and how to execute effective telephone fundraising calls. Calling shifts will be held at Building 10-110.

Minimum Requirements

Current MIT students. Articulate; excellent telephone communication skills; performance and goal oriented.

Qualified Candidates:

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The MIT Chamber Chorus, directed by John Oliver, sang several works by Brahms in a Thursday evening performance in Killian Hall.

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Seminar Addresses Racism

Racism, from Page 1

what the seminar accomplished. It was "a great beginning to bring people together about anxious topics. People really hung in there and brought a lot of things out," Ouellette said.

Participants discuss heritage

After introductions, the seminar participants learned definitions and divided into groups based on their ethnic affiliations. These groups then answered questions like: What do you like about your heritage? What do you dislike about your heritage? What comments do you not want others to make about your ethnicity?

The African American and Hispanic groups said they prided themselves on their culture, history, food forms of communication, and creativity. The Asian American group, which included an Indian American, valued their history of strong women, intelligence, and food.

The groups also talked about what they did not like within their own cultures. African Americans were concerned discrimination within the African American community based on differences in shades of skin color, materialism, and being perceived by others as experts on racial prejudice.

Asian Americans felt that sexism, pressure to achieve, and lack of open communication were problems in their cultures. The Caucasian group said other people often express racist comments about minorities and expect them to agree. They said this expectation made them uncomfortable at times.

The seminar concluded after participants answered a set of three questions: What would the ideal MIT look like? How can race relations on campus be improved? What idea would you like to work on to improve race relations?

Staff members and students overwhelmingly agreed that the turnout was low. "There wasn't any diversity. There was only one Black student, one Latino student," Prasartongsoth said.

Doshi also felt more people should have attended. "I wish more people would make a little more time in their schedules. If not at least for the academic experience, then at least to meet other people with an interest in similar issues," Doshi said.

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UROP Lobbyists Needed

UROP, from Page 1

waiver that exempted student salaries from employee benefits and overhead charges. But the government eliminated that waiver when it revised its rules about how universities can bill the indirect costs of doing research to the government. Indirect research costs include money used to pay for administration, libraries, and the physical plant.

The rule changes were intended to correct what the General Accounting Office called the "lax oversight practices" of agencies supervising research activities and monitoring indirect costs. The rules changes were not designed to affect UROP, according to Chitaley.

"UROP is the unintended victim of efforts to make indirect cost rules more uniform," Chitaley said.

Personal stories needed

In the packet for students, Tsao plans to include information describing the problems facing UROP and what students can do to help, along with two sample letters and addresses of senators and congressmen.

The packets should be available sometime in the next two weeks, Tsao said.

"Our duty is to raise students'

awareness of this issue. First we have to start here, but the ultimate goal is to raise awareness in DC," Tsao said.

Earlier this year, Wrighton made an unsuccessful effort to lobby government officials involved in the process. Tsao hopes that direct appeals by students will have a stronger impact.

Letters to congressmen definitely need to be factual, but Tsao said it was more important to include a personal statement about how UROP has affected them.

"If a congressman gets five letters that are inspiring and motivational, ... then even five letters can make a huge amount of difference," Tsao said.

The group of students Tsao has organized will work to keep students informed and motivated by keeping themselves well-informed and abreast of what is going on with UROP, Tsao said.

Chitaley is organizing a separate lobbying effort directed at congressional staffs and the heads of agencies that sponsor research at MIT. "We're going to try to get a small group of students to go to Washington later this month. They will basically try to meet with agency heads and tell them about the importance of UROP and getting this waiver back," Chitaley said.

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GSC to Begin Shuttle

Shuttle, from Page 1

meet the demands of the students.

Mario Bercaro G also supported the shuttle, citing the high cost of buying food locally and the transportation difficulties. Juan D. Bruno G, who cooks daily and shops once a week, agreed that the shuttle was a good idea and said, "It's about time someone came up with an idea like that."

Shuttle to run through semester

Laverde also provides a weekly busing service for elderly customers. He does not know whether or not it makes money, but is willing to fund it because he feels it is a worthy service. The MIT shuttle is "a shot in the dark," he said, because he is not sure how successful it will be.

"He's doing it as a community service," Cuthbert said. Cuthbert said he does not know if Laverde will break profit from the arrangement.

The shuttle will run through the end of the semester; then Laverde and a Graduate Student Council representative will determine whether it is worth continuing next semester. LaVerde thought 50 riders per week might be a reasonable benchmark for gauging its success. Cuthbert estimated that possibly 100 people would be using the service every Saturday.

The shuttle will be a standard school bus seating between 35 and 40 grocery-laden passengers, Cuthbert said. It will depart from MIT at 11 a.m., 12 p.m., and 1 p.m. every Saturday. Return trips will leave Laverde's Star Market at 12:40 p.m., 1:40 p.m., and 2:40 p.m. Additional service may be added if there is more demand, said Cuthbert.

The bus will pick students up at building E40, Senior House, Ash-down House, Burton House, Tang Hall, Edgerton House, and across the street from Random Hall.

Although the grocery shuttle is being launched under the auspices of the Graduate Student Council, all students will be welcome to use it, Cuthbert said.

(Vipul Bhushan contributed to the reporting of this story.)

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Review Results Could Threaten Haystack Observatory Funding

Haystack, from Page 1

upgrade on the astronomical community. There's no question in my mind that the timing of the NSF review could not have been worse for Haystack," Kastner said.

Ironically, because the upgrade was completed in January 1994, the NSF named Haystack the premier U.S. observatory at the three-millimeter wavelength.

"We are preparing to write our next grant proposal trying to make our best case based on the science we have," Salah said.

"We are trying to convince the NSF that after they spent all the money on the telescope we'd like to be able to [use it]. Everybody has to be able to do as much as possible with as little money as possible," Salah said.

Ranking has reduced grant award

The ranking has already had a serious economic impact on the Westford, Mass. observatory. Haystack's grant level for this year has been cut from last year's \$1.3 million, according to *Science*.

The lost funding will require trimming operating costs, current and proposed programs, and future upgrades, according to Haystack astronomers.

The NSF will still allow Haystack to operate this telescope for the next three years under the current grant, but at a reduced budget, said Haystack Director Joseph E. Salah. "We'll try to preserve science, but we're going to have to reduce ... operational costs," he said.

"We will have to reduce operations personnel," he said. Operating the telescope on a night shift may also have to be cancelled, he added.

Future projects are also in jeopardy. "We will not have the funds to continue upgrading," Salah said. Plans for a focal-plane array and improvements in the antenna's efficiency — an area in which the report faulted Haystack — are on an uncertain schedule.

The financial effects of the ranking are "already being felt," according to Joel Kastner of the advanced X-ray astrophysics facility. To come to terms with the NSF cuts, "Haystack has already cancelled plans to move ahead with the next steps of [the telescope] upgrade," he said.

The limited budget for future improvements is unfortunate for MIT undergraduates because it pushes back plans to make Haystack's facilities available to students over the Internet, Salah said.

"As part of our cost reduction process, we'd like to connect to the World Wide Web and the Internet so that [students] can control the antenna remotely," Salah said. Students would have access to the observatory through the information superhighway, Salah said.

"We feel that we can make a better contribution to education, by getting students excited about science and astronomy," Salah said. "We can make a more valuable contribution in the long term."

Haystack employs on average ten students.

Ranking due to bad timing

"What we ran into were the budget problems in research," Salah said. Last year's federal budget mandated a 10 percent cut in NSF funding, which was passed on as a 10 percent decrease in funding for the NSF's astronomy division, Salah said.

"The committee came in, we described what the telescope's capabilities were, what our past research was, but we couldn't demonstrate," Salah said. "There was no way we could have any results in front of them" until the upgraded telescope was nearly fully operational, he

said.

Sheperd S. Doeleman G, who works at Haystack, described the review as "somewhat unfair. A lot of what we were judged on was our three millimeter work; [we were] judged on something it had not yet come up to speed on," he said.

NSF did not wait until the upgrade completion because the NSF wanted to have its report completed by Sept. 30, the beginning of the fiscal term, Salah said.

"We've gone [to Washington] and said that we agreed with the report," he said. Three experts have given their opinion. There's really no appeal per se. All we can do is do good science submit good proposals [in the future], and be sensitive to budget constraints, and go from there," he said.

Assessment of the ranking

While the committee's report ranked Haystack's telescope last, it gave a very positive review on Haystack's Very Long Baseline Interferometry research.

"We have no doubts whatsoever that that the VLBI group at

Haystack is a unique national resource," the committee said. It also recommended funding for at least five years for this research. Haystack's future programs will put an increased emphasis on VLBI research, Salah said.

In addition to VLBI research, Haystack continues investigation of space-debris in orbit, Salah said. "There are objects the size of nuts and bolts up there, and nobody knows where they are or how many there are," Salah said. The debris can attain very high speeds in orbit, and can damage satellites or shuttles on impact, he said.

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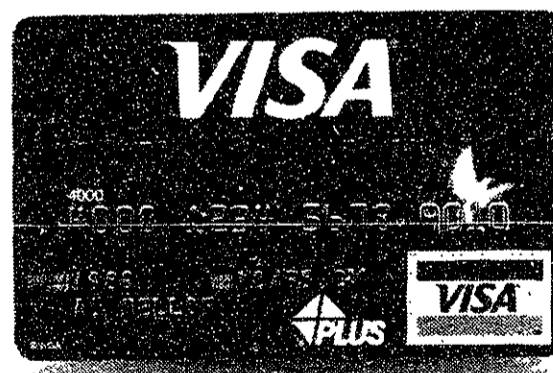
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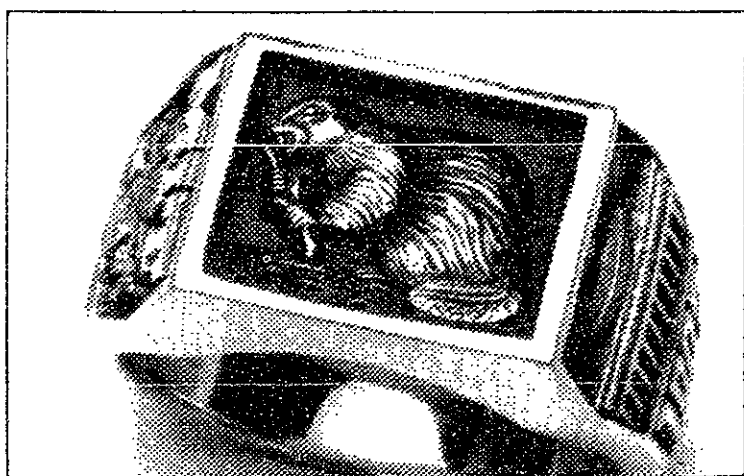
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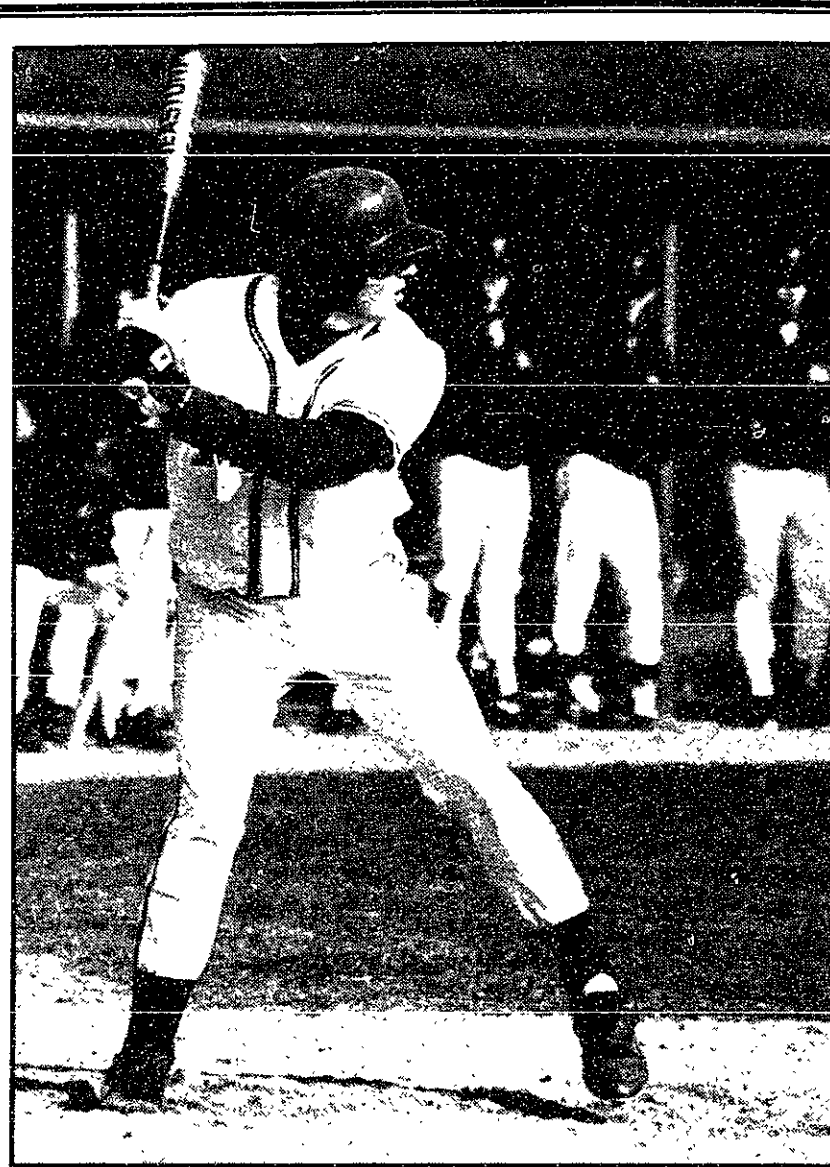
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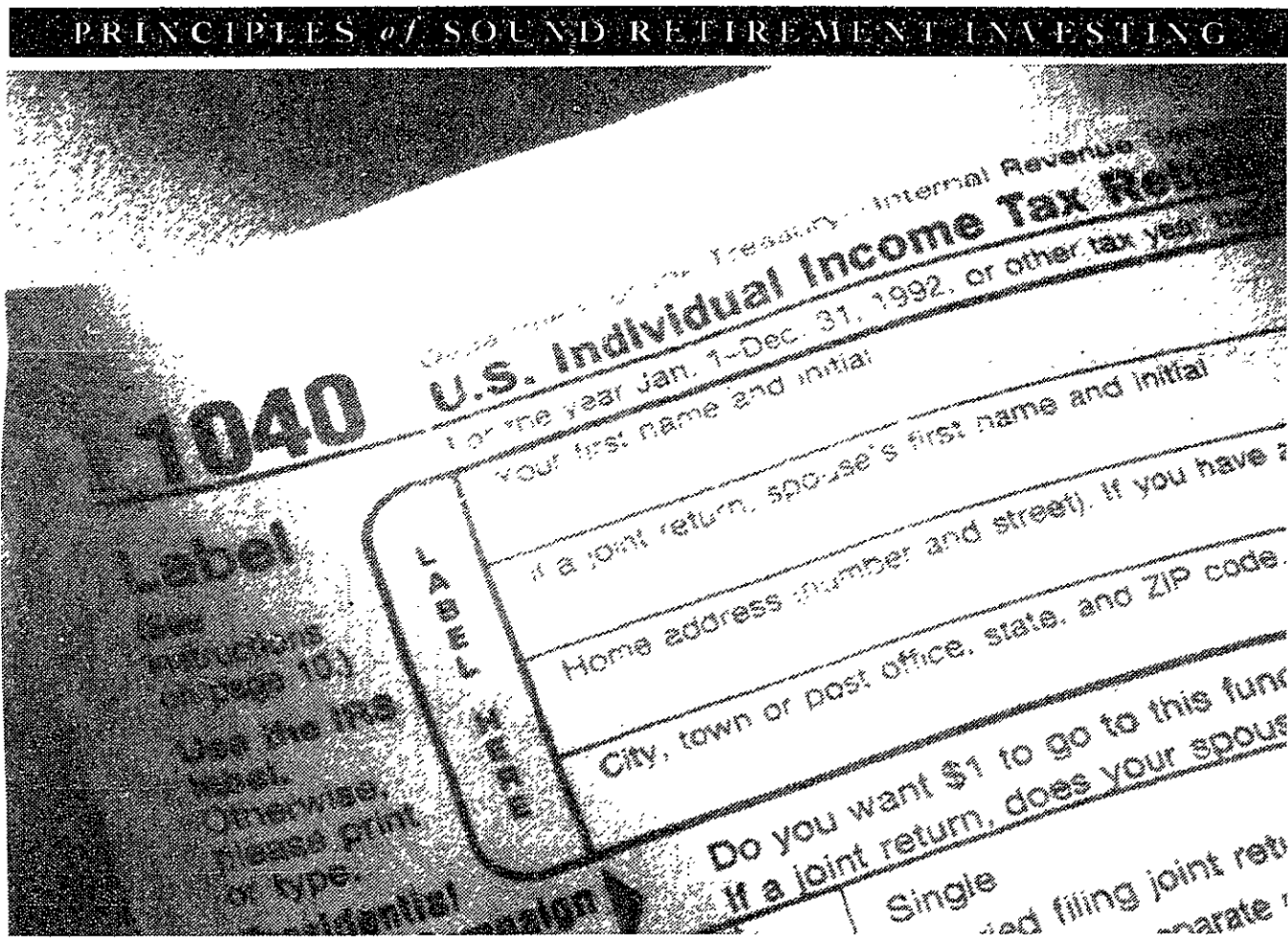
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MARK BOCKMANN—THE TECH
Robert F. Lepard '95 stands ready at the plate during the second game of Saturday's doubleheader against Norwich University.



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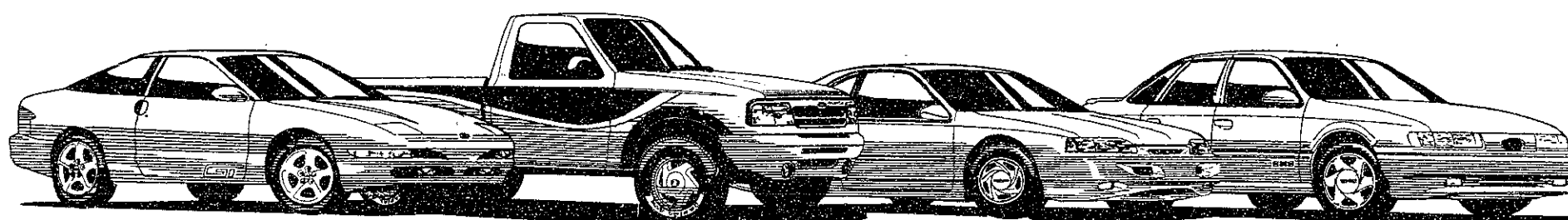


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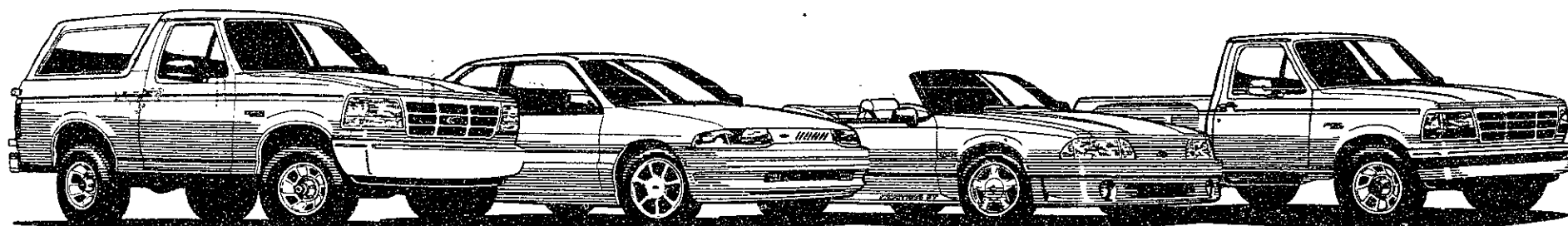


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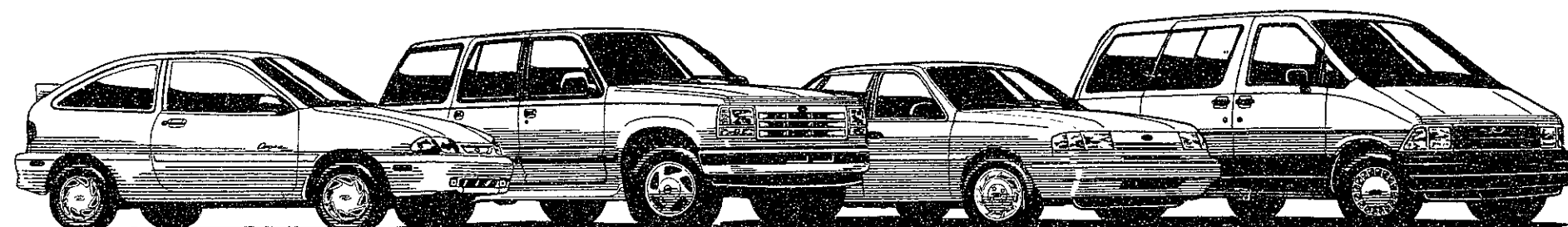


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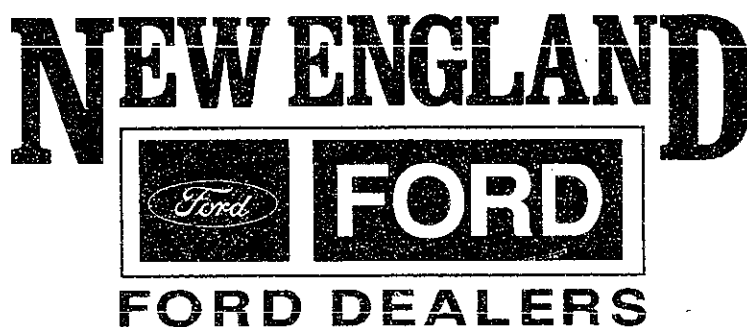
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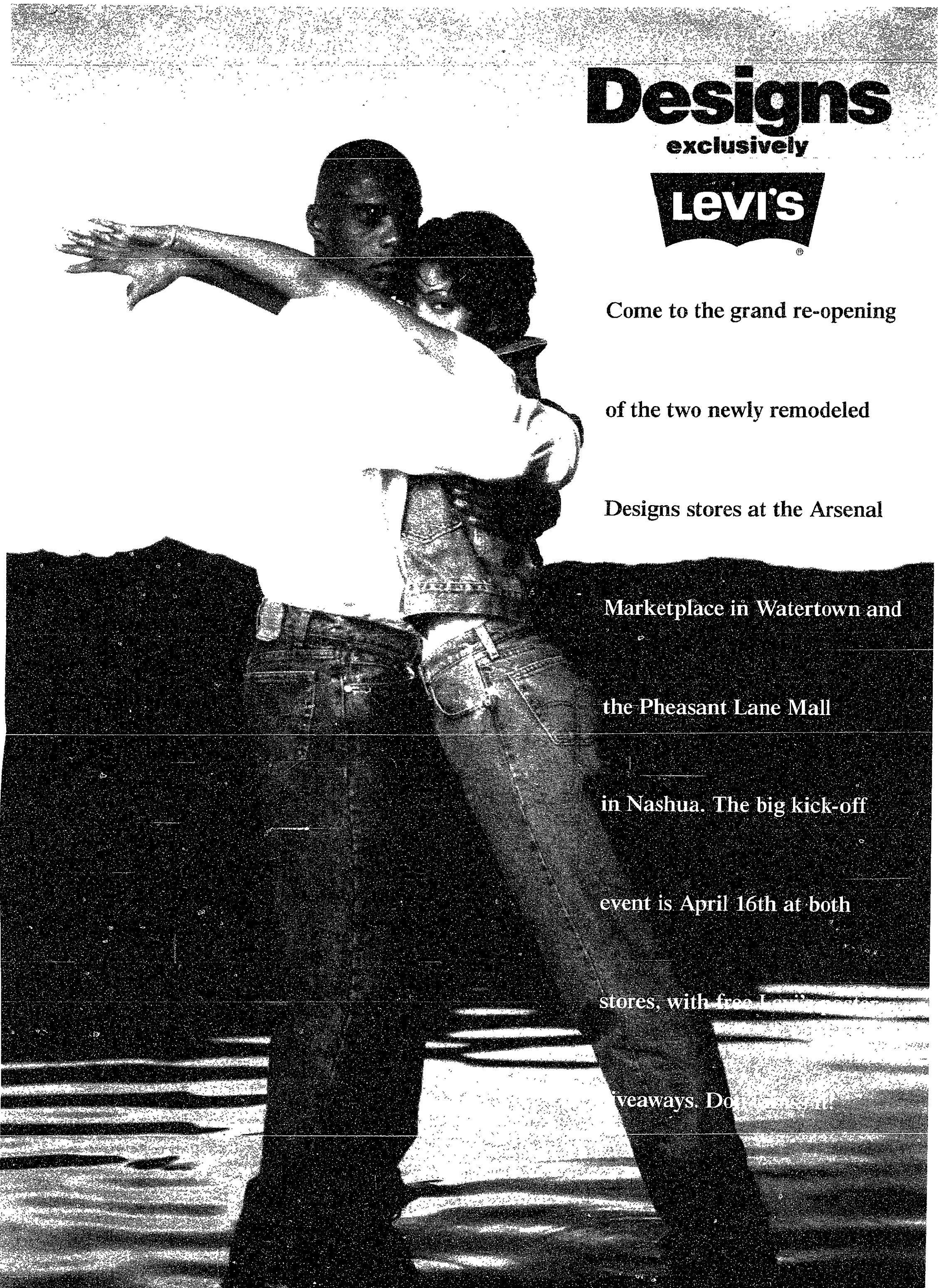
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Heavyweight Crews Commence against Columbia



The MIT varsity heavyweight crew trails Columbia University in its first race of the season Saturday afternoon. Behind from the start, the crew lost to Columbia for the first time in three years.

JONATHAN LI—THE TECH

seconds. "They basically missed the first few strokes of the race, got down, and rowed as poorly as they've ever rowed. It was our first intercollegiate race and I think it was a good learning experience," Schmill said.

The final two races of the day were the varsity and second varsity eights. The second varsity finished tied with Columbia in a time of 6:17. In an exciting race, the boat was down by open water with 500 meters left and managed to pull even by the finish and salvage a tie.

Coxswain Peter Yao '95 described the race: "We had a pretty good start, sagged in the middle of the race, and finally pulled it together for the last 500 meters of the race."

The varsity eight was beaten by Columbia for the first time in three years. The MIT boat was down at the start and never was able to make up the lost ground, finishing 6 seconds behind Columbia, in a time of 6:12. Varsity captain Lorin Theiss '94 said, "It was a decent row, but we were not really prepared to race. We will be ready for next week."

Next Sunday the men's heavyweight crews race Boston University and Boston College in a three way race on the Charles River.

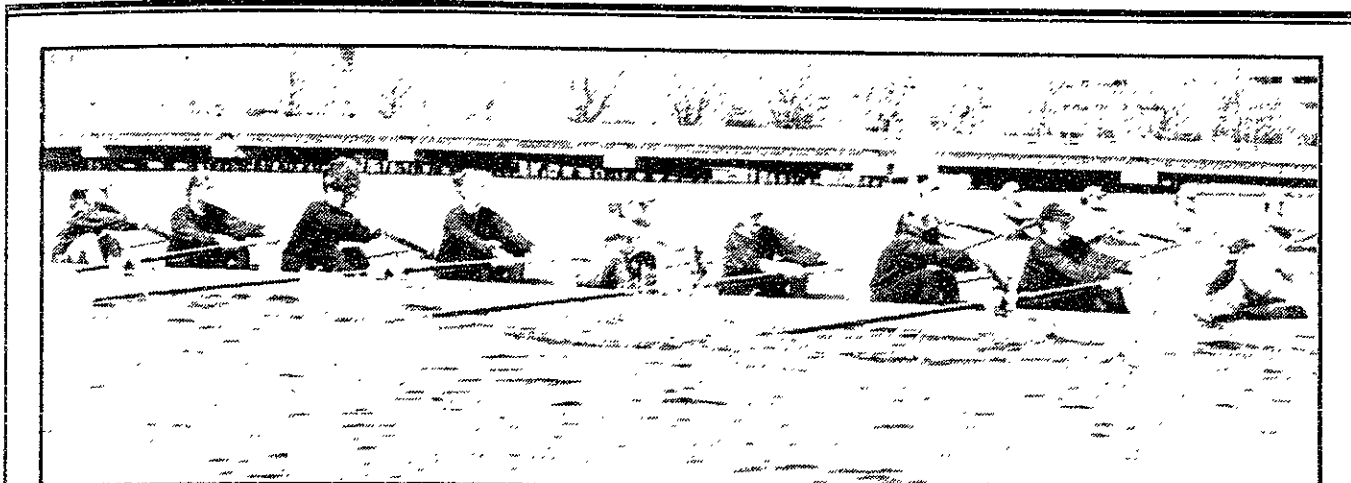
By Neeraj Gupta and Jon Singer

TEAM MEMBERS

The men's heavyweight crews began defending their Division II national title with a tough day of racing against Division I league rival Columbia University. In the first race of the day, the second freshman four with coxswain finished the 2000-meter course in 7 minutes 42 seconds, beating Columbia by 9 seconds.

Freshman coach Stu Schmill said, "They had a good race and I was pleased. They controlled the race from start to finish."

In the next race, the first freshmen eight lost to Columbia by 15



JONATHAN LI—THE TECH

MIT's varsity women's 8 challenges former National Champions Boston University in a 2,000-meter race last Saturday. MIT lost to Boston University in a close finish.

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Desperate for Summer Employment? "How to Find a Summer Job/UROP," is a workshop which will help you land that great job! Learn tips on resumes, cover letters, and job interviews. Wed., April 6 4-5pm, 2-105.

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Catch a Jet! Europe only \$169; Coast to Coast: \$129; Carib/Mexico: \$189 r/t. AirHitch@ 617-254-2819. Call for program descriptions!

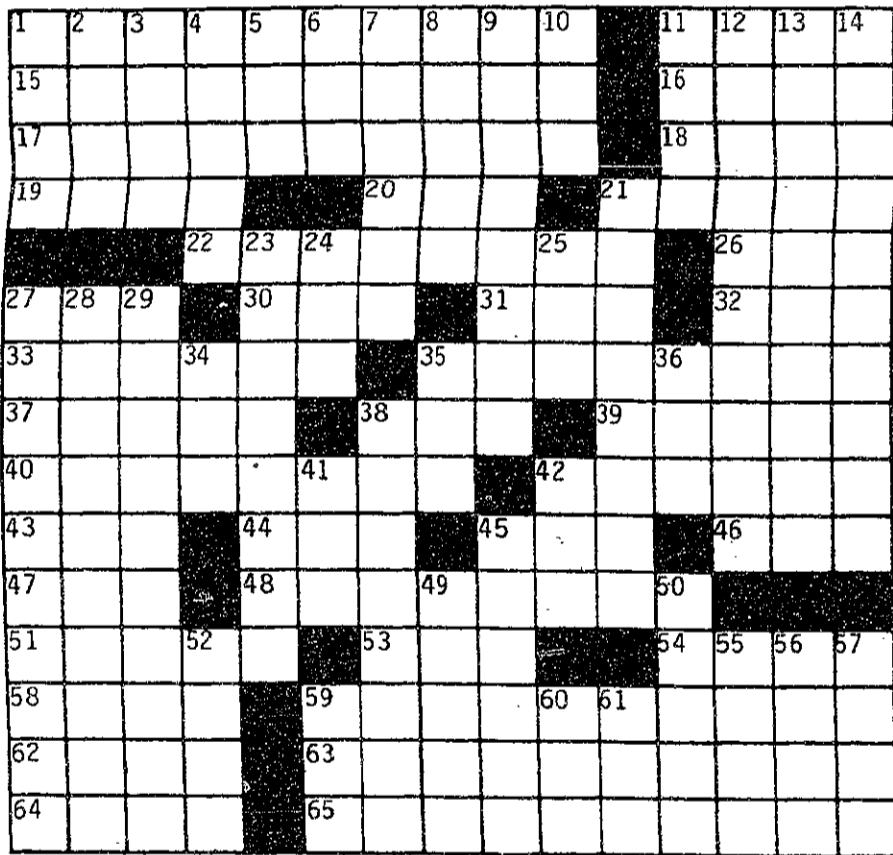
■ Miscellaneous

Donate Your Live Brain to Science! (well, for 15 minutes anyway...) The Dept. of Brain & Cognitive Sciences seeks subjects whose first language is American English for exciting psycholinguistic research. Pays \$3 for 15 minutes. Call Marie at 253-8408 or send e-mail to marie@psyche.mit.edu

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ACROSS

- 1 Executive privilege
- 11 Put — on (cover up)
- 15 Amelia Earhart, and others
- 16 Auctioneer's last word
- 17 Road part (2 wds.)
- 18 Celestial handle
- 19 Composer of Johnny Carson's theme
- 20 Type of poodle
- 21 Freezing
- 22 Impudence
- 26 Cuba or Aruba (abbr.)
- 27 Rob
- 30 Actor Beatty
- 31 Pacino and Hirt
- 32 Sault — Marie
- 33 Green, as tomatoes
- 35 Small gathering
- 37 Opera part
- 38 Ending for psycho
- 39 Intended
- 40 Weather forecast
- 42 Medium session
- 43 Author Deighton
- 44 Musical syllable
- 45 Pro

- 46 — Fuehrer
- 47 First lady
- 48 Strong coffee
- 51 Weighed the container
- 53 Asta, to Nick Charles
- 54 Cried
- 58 "Step —!"
- 59 DDT and OMPA
- 62 Opposite of "da"
- 63 Rural street decor (2 wds.)
- 64 Mitigate
- 65 Constrictive substance

DOWN

- 1 South American rodent
- 2 Break —
- 3 Gretzky's milieu
- 4 Its capital is Doha
- 5 Salt Lake City collegian
- 6 Like some verbs (abbr.)
- 7 Drifted, as sand
- 8 He was tied to a wheel in Hades
- 9 Decade: (2 wds.)
- 10 Suffix for Siam

- 11 "I Got — in Kalamazoo
- 12 Where Hempstead is (2 wds.)
- 13 Earnest prompting
- 14 Post-office office (2 wds.)
- 21 Takers for granted
- 23 Like some people's hair
- 24 Sandra —
- 25 "Reduce speed"
- 27 Mr. America's concern (2 wds.)
- 28 Chekhov play (2 wds.)
- 29 Vegetations
- 34 — fog (confused)
- 35 Actor Young
- 36 Pod occupant
- 38 Certain turtles
- 41 Tax agency

- 42 "— your old man"
- 45 Shackle
- 49 Bowling button
- 50 Being in debt
- 52 Feminine ending
- 55 Miss Adams
- 56 Ivy League school
- 57 An NCO (abbr.)
- 59 School organization
- 60 Sino-Soviet river
- 61 Prefix: motion

PUZZLE SOLUTIONS FROM LAST ISSUE

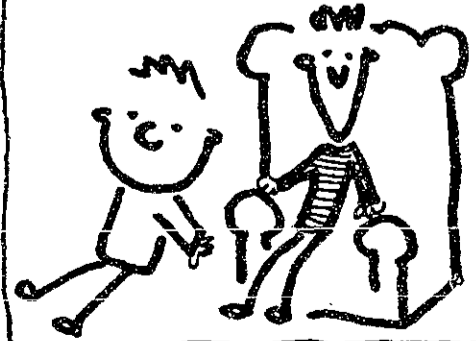


SOLUTIONS IN THE NEXT EDITION OF THE TECH

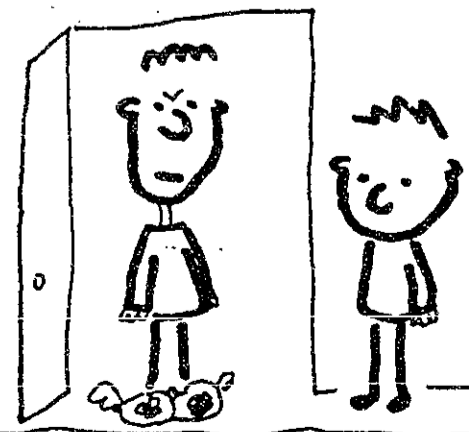
Jim's Journal

By Jim

Today I was sitting around with Steve when we heard a knock on the door.



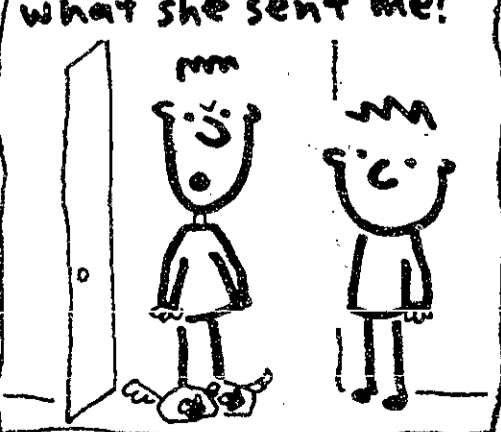
It was Tony, and he was wearing big silly moose slippers.



Steve laughed out loud, but Tony wasn't laughing.



"I told my mom I needed some slippers," he said, "and look what she sent me!"



Baseball Wins on Squeeze

Baseball, from Page 16

as Ellis reached on a leadoff walk and stole second. With one out, Gniadek reached on an error by the second basemen with Ellis taking third. However, a double play by Morgan snuffed the threat.

In the sixth, the only run of the game scored. Pendleton got a leadoff walk. After a strikeout, Pendleton stole second and took third when the catcher's throw sailed into the outfield. Jeff Olson '94 then was able to lay down a bunt to make the suicide squeeze call work perfectly so Pendleton scored. Norwich went quietly in the seventh to end the game.

Head coach Fran O'Brien commented, "We played very well. These were two of the better pitchers we faced all year. We could have gotten two wins, but were very happy to get the one."

Netmen Lose Third Set Leads

Tennis, from Page 16

Lomelin '94, the second-singles player, dropped a (score) verdict, as did fifth-singles player Weintraub, who suffered a (score) loss.

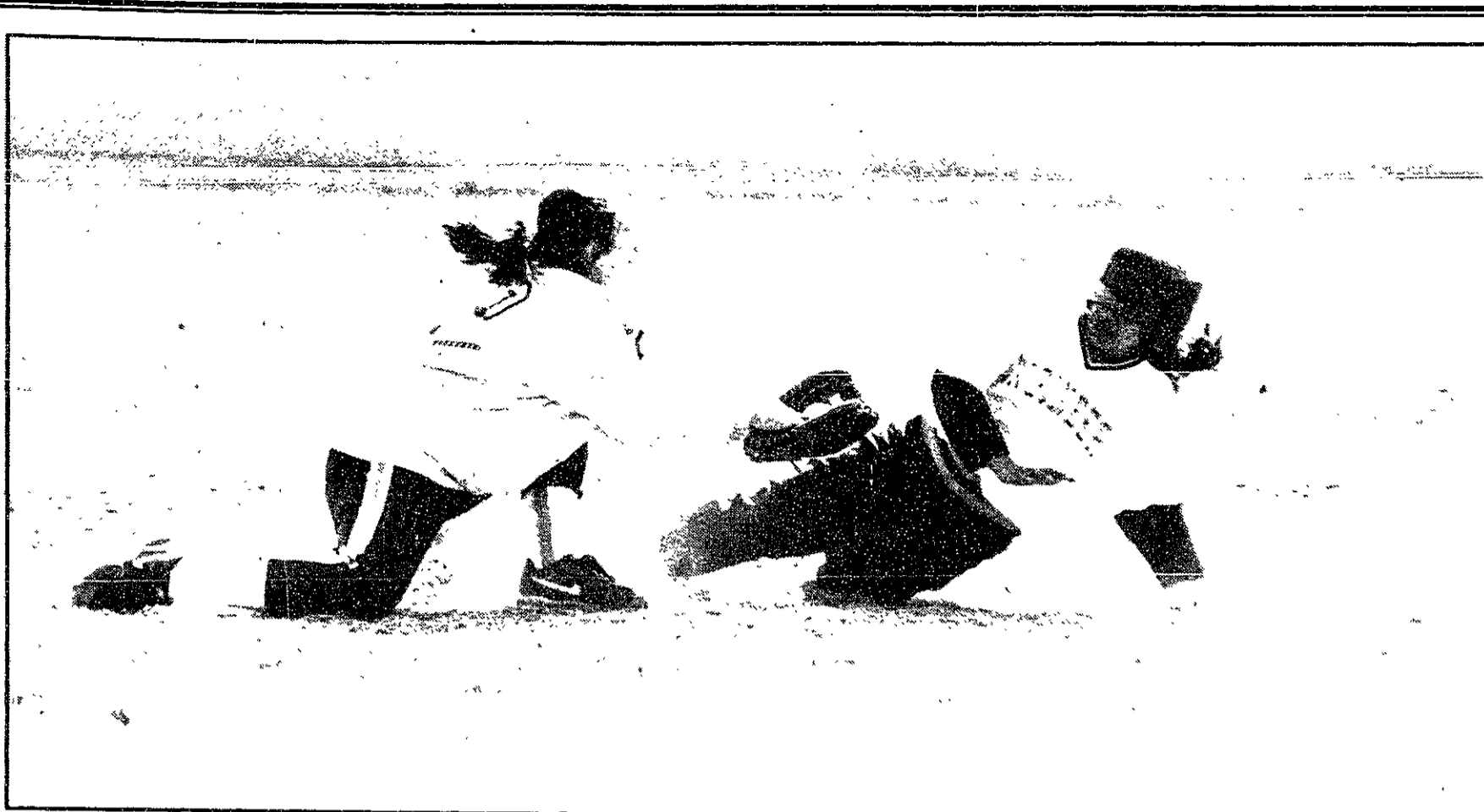
The other three matches turned out to be three-setters, which were close despite the final scores. Erickson and Tsai, at third and fourth singles, both lost their first sets. In the second set, however, both turned up the intensity, and starting forcing the issue. They succeeded, with very few errors. Erickson stormed to a 6-0 second set win, while Tsai did the same by winning his set, 6-4.

Unfortunately, their opponents regrouped, and captured both of the matches. Tsai held a 3-0 lead in the final set before his foe started attacking the net. Placed on the defensive, Tsai missed more shots, and saw some winners go by him. His opponent ran off six straight games, winning the match, 6-3, 4-6, 6-3.

Erickson experienced a similar fate, leading 2-1 in the final set before his opponent won five games in a row to win the match. Despite the losses, both Erickson and Tsai were satisfied with the way they played, as they pointed to aspects other than the final result.

The trend strangely continued over on the far side of the courts, where sixth singles player Dan Wang '97 saw action for the first time this spring. Wang got off to quick start, winning the first five games, before winning the first set, 6-2. However, things went downhill from there. The Vermont player started to get into the match by placing more balls in the courts, and attacked with success. Wang led 2-0 in the third set, but squandered the lead, and lost six games in a row for a 2-6, 6-2, 6-2 defeat.

As a result of the dual meet, the team has lost both matches it has played this spring, bringing the overall record for season to 2-4. All four losses have come at the hands of Division I teams. The Engineers will finally see action against Division III competition tomorrow afternoon, when they take on the United States Coast Guard Academy at home. Two days afterwards, they will fly to Swarthmore, PA, to face Division III powerhouses Swarthmore College and Trinity University. With qualifying for the NCAA Division III Championships as a team, as a major goal for the season, results of the matchups with Division III schools will be even more important than the matches already played.



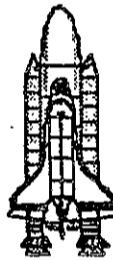
THOMAS R. KARLO—THE TECH
An MIT baserunner falls to slide under the second baseman's tag during the second game between the softball team and Smith College. MIT won both games of the weekend doubleheader.

Freshman Open House

Department of Aeronautics and Astronautics
April 8th, 1994



You are invited to the Aeronautics and Astronautics Freshman Open House on April 8, 1994. In the morning (9 am -10 am) we will have a panel discussion with faculty and students to inform you about some of the more interesting aspects of Course 16. You can tour the Department in the afternoon on the 1 pm or 2 pm tour. We'll see the wind tunnels, the Gas Turbine Lab, and the Man-Vehicle Lab. Finally, you're invited to a seminar given by Astronaut Franklin Chang-Diaz at 3 pm.



Schedule:

9 am - 10 am Room 33-419	Welcome, faculty and student panel. FOOD!
1 pm - 2 pm Room 33-206	Wind tunnels and laboratory tours. Brief introduction followed by a 45 minute tour.
2 pm - 3 pm Room 33-206	Wind tunnels and laboratory tours. Brief introduction followed by a 45 minute tour.
3 pm - 4 pm Room 10-250	Seminar by Franklin Chang-Diaz, PhD '77, NASA Astronaut will discuss his experiences.

Please join us for any or all of the activities planned on April 8, 1994 in the Department of Aeronautics and Astronautics. If you have any questions please call x8-8799.

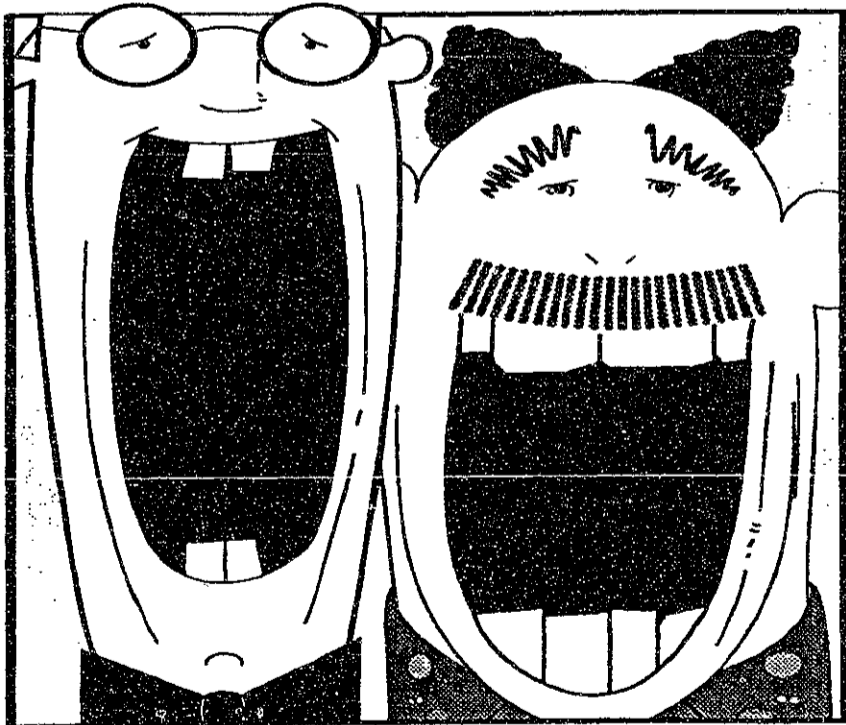
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SPORTS

Men's
Tennis
Loses to
VermontBy Daniel Wang
TEAM MEMBER

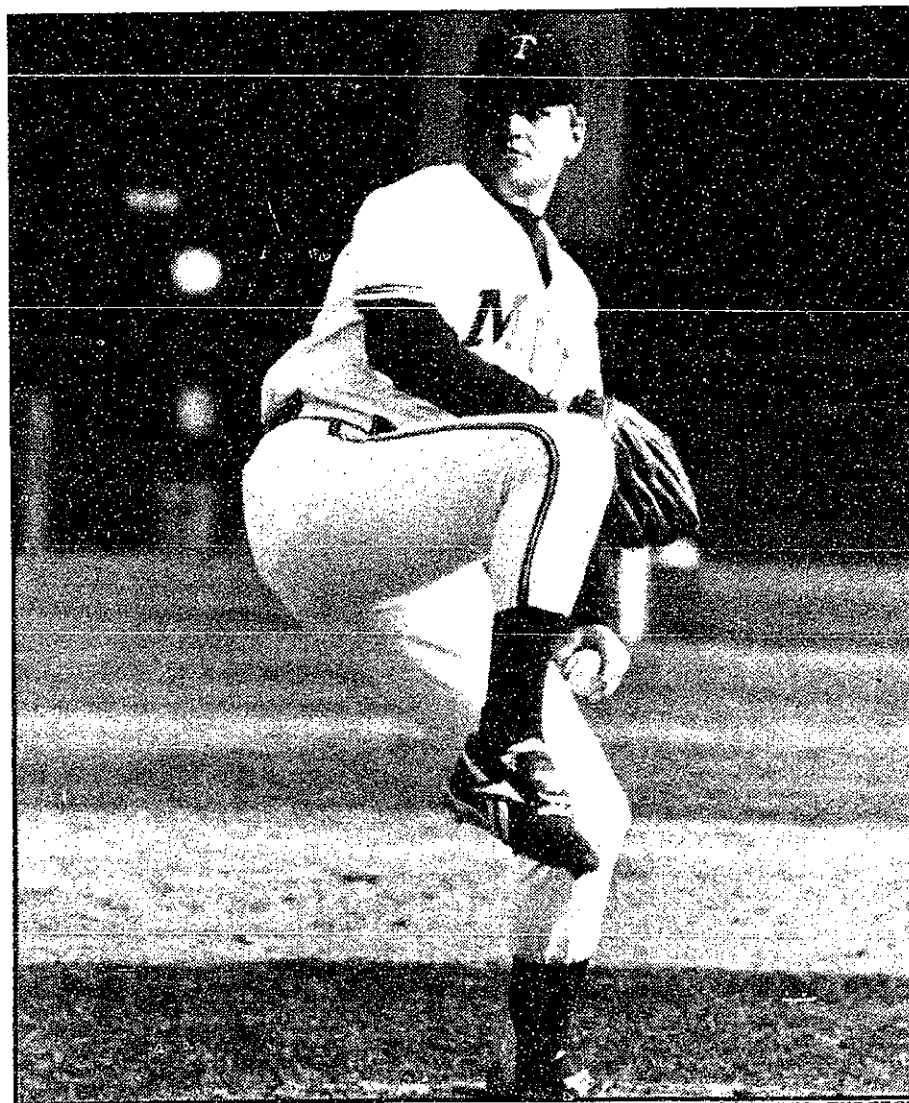
Throughout the sporadic weather patterns that the area has experienced, signs of the spring season did not appear until this past weekend. Last Friday, with the sun out, and almost all of the snow melted, the men's tennis team took on Division I opponent University of Vermont, in only its second outdoor playing session of the season. The Vermont team had come out of hibernation as well, playing outdoors for the first time this season, and defeated MIT, 6-1. The Engineers, however, did have a chance to win, taking three of the singles matches to three sets.

Play commenced with the three doubles matches, which did not fare too well for MIT. The first doubles team of Jay Muelhoefer '94 and Nick Tsai '94, the current New England Division III Champions, played some tough points, but fell in the end, 8-4. The same went for the second doubles team, of Mark Erickson '94 and Jason Weintraub '97. The pair, which had only recently played together, also lost by a score of 8-4. Out of the view of the bleachers, the third pair, consisting of Hank Lin '97 and Rob Marcato '97, struggled and suffered an 8-2 defeat.

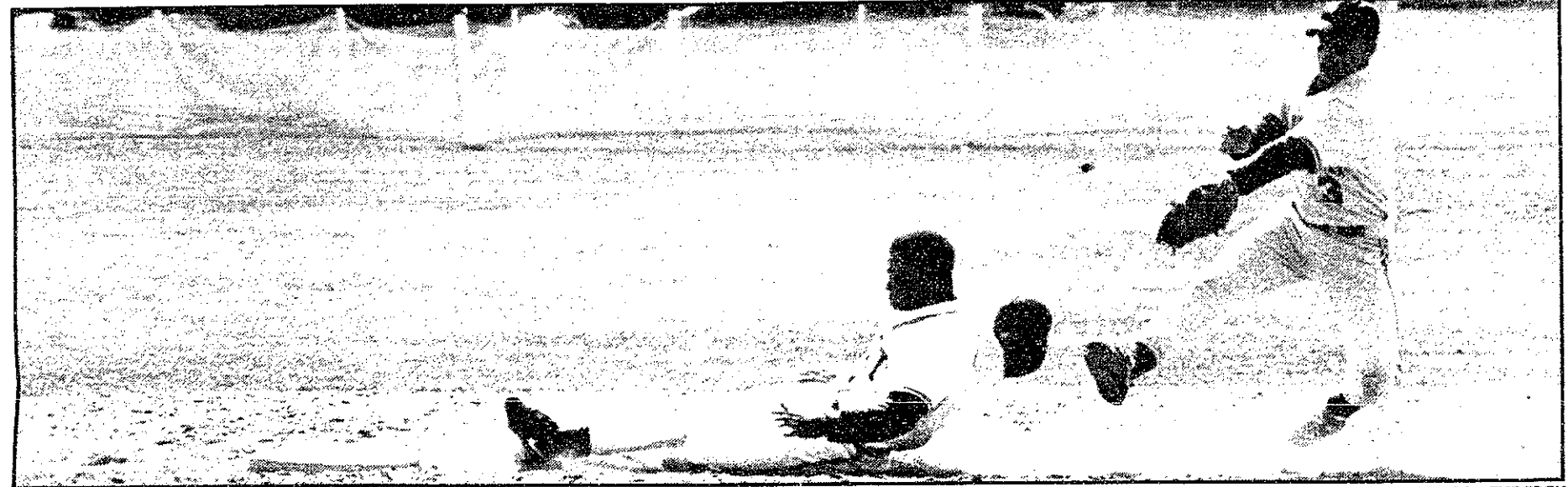
Similar to the result of the team's last match, against Harvard University, Muelhoefer captured the team's only win, as he emerged victorious in his match at first singles, 6-2, 6-4.

Unfortunately for MIT, two quick straight-set losses offset Muelhoefer's win. Mauricio

Tennis, Page 15



Pitcher Aaron Lousche '96 winds up during the second game of Saturday's doubleheader versus Norwich University. MIT won 1-0.



Brian Pendleton '94 slides under the tag attempt to steal second base during the first game of MIT's doubleheader against Norwich University. MIT lost the first game to Norwich 3-1.

Baseball Goes 1-1
Against NorwichBy Thomas Kettler
STAFF REPORTER

The baseball team opened league action Saturday at Briggs Field against the Norwich University Cadets in a doubleheader. The Cadets won the first by a score of 3-1, but the Engineers took the second game 1-0. Now the baseball team is 6-4 overall and 1-1 in the Constitution Athletic Conference.

MIT scored their only run in the first game in the first inning. Jon Gass '94 reached first on an error by Norwich's shortstop, stole second base, and scored on a single by John Mueller '94.

The Engineers missed a chance to score more runs in the second inning. Rob Leopard '95 had a lead-off double. With one out, Brian Pendleton '94 was hit by a pitch and gave the team runners at the corners. However, the Cadets stopped that threat by striking out the next two batters.

Norwich finally scored in the fourth inning. With two out, Shane Morgan doubled and then scored on

a double by Jaime Sylvia. MIT had another chance in the fifth. With two out, Gass singled. Brian Christensen '94 walked and both advanced on a passed ball by Norwich. However, a strikeout ended the inning without anyone scoring.

In the sixth, the Cadets scored what ended up being the decisive runs. Mark Ellis singled to lead off, and Steve Walker doubled to give Norwich runners in scoring position with no out. After an excellent play to get Ellis out in a rundown on Jaime Gniadek's batted ball, two successive wild pitches enabled Walker and Gniadek to score.

The second game was even a bigger pitchers' duel than the first. In fact, Norwich's Matt Lilibridge allowed only four baserunners as his sidearm motion and three-quarters delivery had MIT's batters baffled.

The first three innings went by smoothly for both teams' pitchers, Aaron Loutsch '96 and Lilibridge. In the fourth, Norwich had a threat

Baseball, Page 15

The 1993-1994 James R. Killian, Jr.,
Faculty Achievement Award Lecture

PHILLIP ALLEN SHARP

Salvador E. Luria Professor of Biology
Head of the Department of Biology
1993 Nobel Laureate in Medicine and Physiology

"SPLIT GENES
AND RNA SPLICING"

April 7, 1994
4:30 pm
Huntington Hall, Room 10-250
Massachusetts Institute of Technology

UPCOMING HOME EVENTS

Tuesday, April 5
Men's Lacrosse vs. Curry College, 3:30 p.m.

Wednesday, April 6
Men's Tennis vs. U.S. Coast Guard Academy, 3:30 p.m.
Softball vs. Emmanuel College, 3:30 p.m.

Friday, April 8
Baseball vs. Tufts University, 3 p.m.
Women's Tennis vs. Amherst College, 3 p.m.

All event dates, times, and locations are subject to change

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