

Yahoo Internet Life Calls MIT America's Most Wired College

By Jennifer Lane
CONTRIBUTING EDITOR

All those hours spent by MIT students logged on finally paid off. *Yahoo Internet Life* magazine ranked MIT first among the nation's most wired colleges in its May issue.

Northwestern University, Emerson College, Rensselaer Polytechnic Institute, and Dartmouth College rounded out the top five.

Harvard University finished 64th, the California Institute of Technology placed 25th, and Stanford University came in 84th.

"We are pleasantly surprised by the ranking," said Director of Academic Computing Vijay Kumar. "As a general statement, it can't be far from the truth." However, "we don't know about the accuracy of the data."

Displeased with their low ranking, computing officials at Harvard have also questioned the validity of

the rankings.

The survey put too much emphasis on having course-oriented World Wide Web pages, which may or may not be useful, and too little emphasis on access to the Internet, said Harvard Dean Harry R. Lewis in *The Harvard Crimson*.

The survey addressed 35 factors divided into four categories: student services, hardware and wiring, academics, and social possibilities.

Part of the reason that MIT scored high was that 80 percent of students owned their own computers. In addition, it had a 1-1 "port to pillow" ratio, meaning that there was an ethernet port for every resident student. MIT also offered unlimited Web access, automatic e-mail accounts, space on a Web server to house home pages, access to libraries, and online homework.

In addition, MIT was praised for its online registration system and

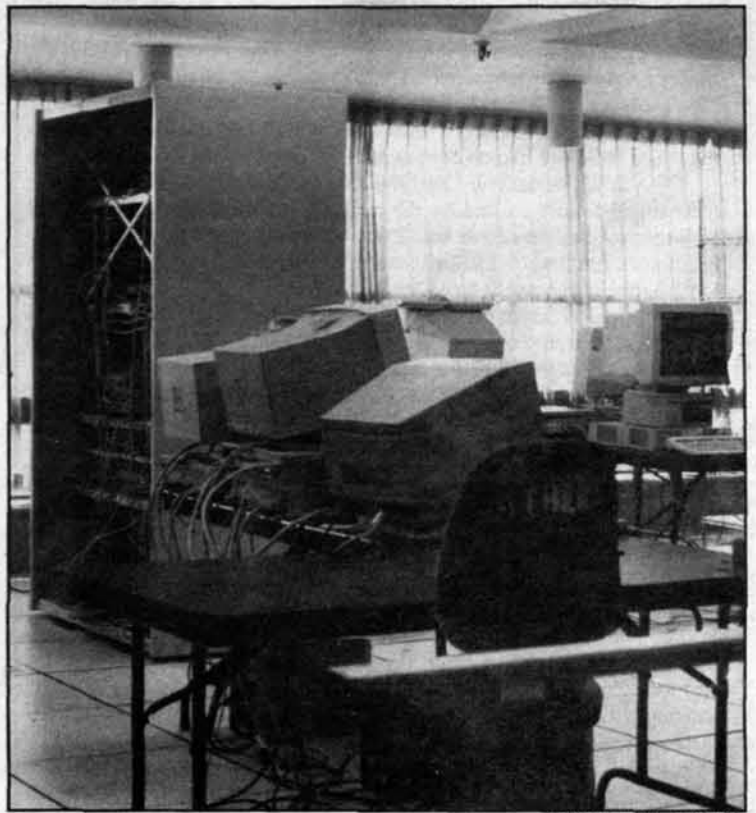
access to "online gaming, chats, and dates" as well as holding themed multi-user domain sessions.

Perhaps more surprising than MIT winning first place was third-place Emerson, a liberal arts college, besting many engineering schools. Emerson boasted a high rate of student computer ownership and a lot of social Internet usage.

But what really set Emerson apart was its high rate of Internet use in academics, the magazine said. Seventy percent of courses utilized Web resources in teaching, and more than half allow students to access information online.

On the other hand, Stanford suffered in the rankings because of low reported use of the Internet by classes. Less than five percent of classes reported to use Web resources at all.

Complete survey results can be found at <http://www.zdnet.com/~yl/content/college/intro.html>.



GREG KUHNEN—THE TECH

With its many accessible computing resources, MIT was named most wired school by *Yahoo Internet Life*.

Weinberg to Receive Top Science Honor

By May K. Tse
ASSOCIATE NEWS EDITOR

Last week, several MIT faculty members were recognized for their scientific contributions. On Wednesday, Professor of Biology Robert A. Weinberg '64 was named as one of nine recipients of the prestigious National Medal of Science.

In addition, three professors were elected to the National Academy of Science.

Weinberg is the 19th National Medal of Science winner from MIT.

Robert J. Birgeneau, dean of the School of Science, said that the medal recognized people for long-term discoveries, as opposed to the Nobel Prize, which recognizes only a specific contribution. "The National Medal of Science is for an

interval over one's career rather than one contribution. The Nobel Prize is usually for one great discovery."

Weinberg said that he was surprised to be named as a recipient of the medal. "I hadn't the vaguest idea that they were thinking of me in this context," Weinberg said, "I didn't conceive of it; it's just beyond my imagination."

Weinberg is a noted cancer researcher and has spent 15 years studying the origin of cancer. He also led the way toward the discovery of the retinoblastoma gene. "It's a rare tumor of the eye, but by studying it, one can learn about many different kinds of tumors," he said.

Awards, Page 14

UA Will Gauge Community Interest In Finals Week Logan Bus Service

By Dan McGuire
NEWS EDITOR

The Undergraduate Association is gearing up for the third Logan Airport Shuttle at the end of the school year. This spring's shuttle, which will run from Wednesday, May 21 to Saturday, May 24, is intended to be a real test of the airport shuttle concept, said Dedric A. Carter '98, UA president.

In previous years, ridership figures were tainted by technical issues and publicity problems, making it difficult to figure out whether the airport shuttle, as a concept, was workable. "Last time, we did the Logan shuttle as kind of a last minute thing," he said. "We tried to publicize, and it didn't get out there." Nevertheless, "I was really pleased. ... We got a decent

turnout."

This year, however, little is being left to chance. "This spring, we decided to do it right," he said. "We're trying to get as many people to ride it as possible. At the end of the spring, we're going to take another look at it."

This year, the UA wants to get "hard and fast statistics" and bring them before the UA Council to debate the merits of the shuttle, he said.

More shuttle stops added

In order to get those statistics, the UA is working hard to promote the Logan Airport Shuttle and is changing it to make it more convenient. The shuttle will run every hour and a half between 6:00 a.m. and 4:30 p.m. from the Wednesday

of finals week to the Saturday after finals. The shuttle has expanded the number of stops it will make. It will now stop at East Campus, McCormick Hall, and between Next House and New House. Last fall, the shuttle only stopped at McCormick.

A Boston stop was considered and then rejected, Carter said. "We were hoping to get a stop in Boston, but we could not come up with a stop that was fair, equitable, and legal as far as traffic was concerned."

Time also played a role in the decision not to stop in Boston, said Natalie Tal '99, Burton-Conner House's UA representative. "We wanted to have the shuttle run every

Shuttle, Page 15

MIT Computers Compete To Crack DES Encryption

By Frank Dabek
ASSOCIATE NEWS EDITOR

Students and faculty at MIT are becoming increasingly active in an Internet-wide effort to break the 56-bit Data Encryption Standard algorithm, an encryption method commonly used by the government and the private sector to protect sensitive information. RSA Laboratories is offering \$10,000 to the first person who obtains the correct key.

MIT computers are working with computers from hundreds of other universities and businesses across the nation in several brute-force attempts to crack the encryption system, which was created by RSA. The networks of computers are trying each of the 72,057,594,037,927,936 possible keys to find a match.

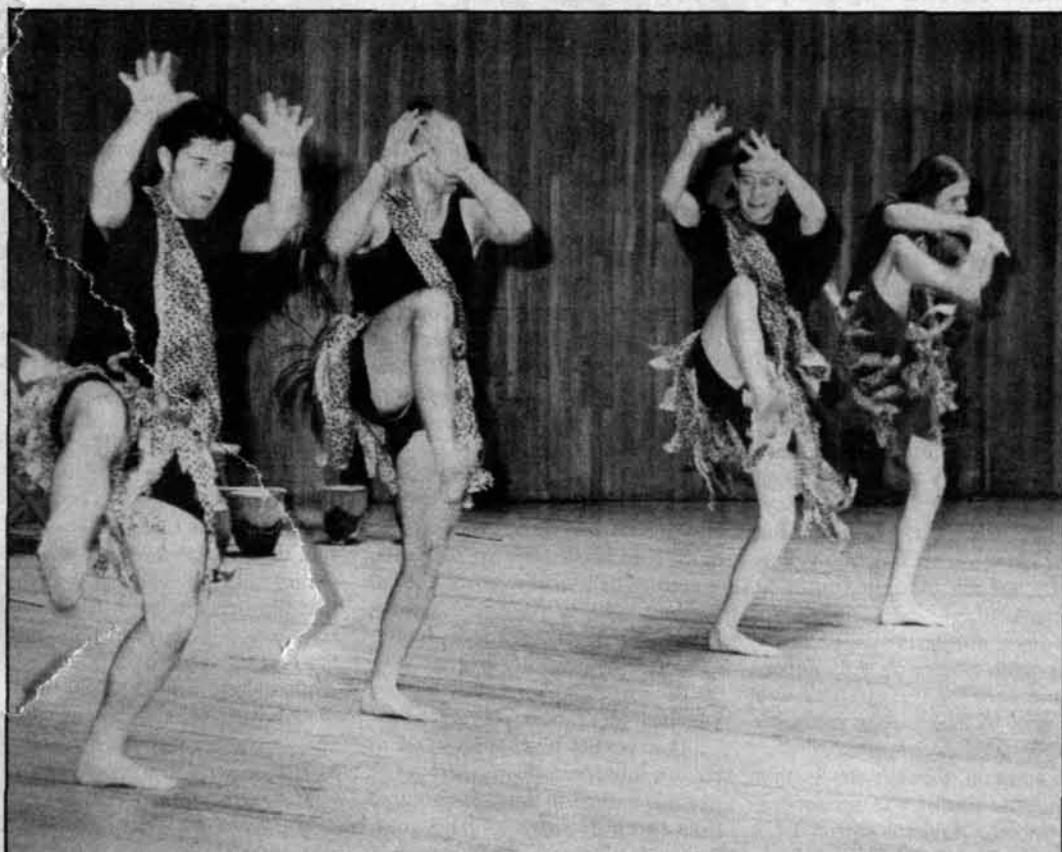
An informal rivalry has also developed, as different universities attempt to determine who can test the most keys each day.

As of Sunday, 226 machines in the mit.edu domain were contributing to one effort, organized by Rocke Verser at <http://www.frii.com/~rcv/deschall.htm>, to link

machines over the Internet. Verser has agreed to share \$4,000 of the \$10,000 prize to the individual whose machine finds the actual key.

MIT machines tested over 6 million million keys Sunday, putting it in fifth place behind the University

Encryption, Page 13



GABOR CSANYI—THE TECH

The new group MITCAN, dedicated to presenting the traditional music and dance of Africa, will perform in Kresge Auditorium on Thursday at 8 p.m.

INSIDE

- Police Log Page 6
- Comics Page 9
- Despite tangles, trees manage move from Dewey Library to Killian Court. Page 11
- Dilbert Page 8

WORLD & NATION

TWA Disputes Assertion That Mechanical Failure Caused Crash

LOS ANGELES TIMES

Trans World Airlines Monday rebuked FBI Director Louis Freeh and other bureau officials for saying mechanical failure not terrorism — was the likely cause of the crash of TWA Flight 800 last summer, even though investigators have not yet definitely reached that conclusion.

TWA complained that the comments were "unproven speculation, and no evidence recovered to date would conclusively support such a theory." "A conclusion based on 'the evidence we have not found' is clearly no conclusion at all," said a TWA spokesperson.

An FBI spokesman said the bureau had not yet seen TWA's statement and therefore had no comment.

TWA could be severely hurt if authorities did determine that some mechanical failure caused by the airline's maintenance was at fault — which to date they have not. TWA already is the financially weakest of the eight major U.S. airlines and can ill afford any development that might cause passengers to avoid its service.

But Michael Boyd, president of the consulting company Aviation Systems Research Corp. in Golden, Colo., said "TWA is absolutely right" to challenge the FBI's statements. "It's unconscionable to say it's a mechanical problem" if that hasn't been firmly decided, he said.

Koreans Break Off Aid Talks

THE WASHINGTON POST

BEIJING

Talks between North and South Korean Red Cross officials broke off Monday without agreement on the amount of food aid or conditions for delivering it from the South to the hungry North.

The two sides could meet again within 10 days, negotiators said. But for now they are deadlocked over three South Korean proposals: that food packages be identified as gifts from the South, that South Koreans be allowed into the North to monitor distribution and that shipments move directly to the North overland through the town of Panmunjom in the Demilitarized Zone on the 1953 cease-fire line.

The talks here are unusual because they are the first direct talks in five years between North and South Korean Red Cross officials. Diplomats are watching the talks closely for indications of how desperate North Korea is for food assistance and how North Korean officials might deal with South Koreans generally as the United States and China attempt to push the two sides into direct peace talks in New York. North Korea has said it will join the talks only if it receives guarantees of food aid and an easing of trade sanctions. A senior North Korean official who recently defected to the South warned that the North Korean leadership is ready to go to war with the South if it does not receive assistance.

Rally in Stocks Pushes Dow, Other Indexes to Record Highs

THE WASHINGTON POST

NEW YORK

The stock market soared to a record high Monday in a broad-based rally that surprised skeptics who just a month ago thought the time had come for a long-dreaded, sustained downturn.

More than six years after it began, the bull market, as measured by the Dow Jones industrial average, proved it still has a solid kick. The Dow shot up 143.29 points to close at 7214.49.

Broader market averages also enjoyed healthy gains for the day, which were all the more impressive coming on the heels of the week-long move up last week.

The Dow is up more than 7 percent in the past six days of trading, and the technology-rich Nasdaq composite index zoomed up 10.7 percent over the same period.

"People had been waiting for a dip, for an opportunity to buy, but they just aren't getting one," said James J. Maguire Jr., a specialist on the floor of the New York Stock Exchange who was swamped with "buy" orders in the final hour of trading.

The newfound enthusiasm for stocks was fueled by last week's benign inflation news, the balanced-budget agreement, the prospect of a cut in the capital-gains tax rate, the dramatic shrinkage in this year's federal deficit and solid first-quarter earnings.

WEATHER

Same Old, Same Old

By Gerard Roe

STAFF METEOROLOGIST

The train of semi-weekly storms we have had for the last several weeks shows no sign of abating yet, and the pattern is a familiar one: With a storm intensifying along the U.S.-Canadian border, there is some redevelopment at the coast, and the cold front swinging by brings in precipitation.

Tuesday shows morning showers spreading in from the West, accompanied by strong southerly winds ahead of the cold front. With an unstable atmosphere and good lifting associated with the system, we should see some isolated thunderstorms pushing through the area during the afternoon. Most of the rain will peter out during the night, leaving a cloudy start to Wednesday. The sun will try to peek out again from behind the clouds during the rest of the day and most of Thursday, but yet another cyclone is looking to make its presence felt in the outlook, spreading rain again across the region on Friday.

Today: Morning showers with moderate to strong winds from the south. Chance of afternoon thunderstorms. Winds switching round to westerly after the passage of the front in the evening. High 57°F (14°C).

Tonight: Rain clearing from the west. Low 43°F (6°C).

Wednesday: A mix of sun and clouds with winds out of the north-west. Some scattered showers possible especially to the north as the moisture wraps around the storm. High 56°F (13°C). Low 43°F (6°C).

Thursday: Some sun early, then clouds later. High around 60°F (16°C). Low around 45°F (7°C).

Republic of Texas Member Dies in Battle with Rangers

By Sue Anne Pressley

THE WASHINGTON POST

FORT DAVIS, TEX.

One of two Republic of Texas members who fled into the mountains after refusing to surrender along with his comrades Saturday died in a gun battle Monday with state police.

Officials said police and search dogs had cornered the second man, who is also presumed armed, but as of Monday evening he was still at large.

The identity of the dead man was not immediately released. Richard F. Keyes III, 21, and Mike Matson, 48, had slipped away from the group's isolated headquarters in West Texas on Saturday afternoon as Texas Rangers were settling the last details of a surrender agreement with leader Richard McLaren and three others to end the week-long standoff. Authorities, who were focused on negotiations with McLaren, said they watched the men flee and decided at that sensitive moment to let them go.

It was not until Monday, however, that officials felt safe enough to allow about 30 bloodhounds from the Texas Department of Criminal Justice with their handlers to begin nosing through the rugged terrain. On Sunday, Mike Cox, a spokesman for the Texas Department of Public Safety, described the group's headquarters and surrounding area as an armed fortress with a dozen gasoline tanks, as many as 60 pipe bombs, eight stocked bunkers and numerous tripwires.

Monday's developments unfold-

ed immediately after the dogs went to work about 8 a.m., according to Jo Schweikhard Moss, a DPS spokeswoman. Several of the dogs ran straight to a bush within a mile's distance from the group's headquarters and gave the alert signal, she said. The two men, apparently hiding together in a bunker near the bush, fired at the dogs, wounding one seriously in the chest and hitting another in the foreleg. Another dog apparently is missing, Moss said. Their human handlers were wearing bulletproof vests.

Then, shortly before 2 p.m., she said, there was more gunfire as the dogs again homed in on their target. "Once the suspects started shooting ... the helicopter crew overhead and the searchers shot back," she said, adding it was unclear who had fired the fatal shot.

Moss said the two men, who contrary to earlier reports had remained together, were dressed in camouflage clothing. They were equipped with several high-powered weapons, including a .30-30 deer rifle, a semiautomatic military-style rifle and a 9mm handgun.

Of the two, only Keyes had charges pending against him. He was wanted on state charges of organized criminal activity and kidnapping in connection with the April 27 kidnapping that sparked the standoff. Acting on apparent orders from McLaren, he and Gregg and Karen Paulson, a married couple who belonged to the group, shot their way into a neighborhood couple's home, holding them as "prisoners of war" for 12 hours. Joe and

M.A. Rowe were freed after Texas Rangers arranged the release of another Republic of Texas member, Robert Scheidt, who had been picked up by local deputies that morning on misdemeanor weapons charges.

But what McLaren and his group most wanted, they insisted, was for officials to agree to a referendum on the issue of whether Texas should be part of the United States. The Republic of Texas movement is based on a disputed claim that Texas, then an independent country, was illegally annexed into the Union in 1845 by a joint resolution of Congress rather than a treaty.

Terry O'Rourke, McLaren's Houston-based attorney, said his client believes he gained some measure of victory with a provision in the "international cease-fire agreement" that would allow McLaren to argue his case in U.S. District Court in Washington.

McLaren, 43, and his common-law wife, Evelyn, 50, along with five other people, were indicted Monday on federal charges of conspiracy, bank fraud, mail fraud, and aiding and abetting. The names of the five others were not released because they are not yet in custody, the Associated Press reported. The charges are in connection with the group's issuance of more than \$1.8 billion in bogus Republic of Texas financial documents that were used to pay bills.

The state charges alone against McLaren could net him 99 years in prison. The federal charges carry a maximum penalty of 725 years in prison and \$24.25 million in fines.

In Major Victory for Tobacco, R.J. Reynolds Wins Lawsuit

By Henry Weinstein

LOS ANGELES TIMES

In a major victory for the tobacco industry, a jury in Jacksonville, Fla., on Monday found R.J. Reynolds Tobacco Co. not liable for the lung-cancer death of Jean Connor, a lifelong smoker.

The six member jury — which included a smoker and three former smokers — concluded that cigarettes manufactured by RJR, the nation's second largest cigarette company, were not "unreasonably dangerous and defective" and did not cause the death of Connor, who died two years ago at age 49.

Reynolds' win came after a string of bad news for the \$50 billion-a-year industry, including numerous leaks of damaging documents, mounting litigation against the industry and a landmark court decision by a North Carolina federal court judge that the Food and Drug Administration has the right to regulate tobacco.

The victory also came as negotiators for the industry and representatives of 25 state attorneys general resumed talks in Dallas Monday, aimed at settling massive lawsuits in which states are seeking compensation for money expended treating sick smokers.

Most analysts said the Jacksonville case came at an important moment for the industry and was likely to increase the prospects of a negotiated settlement.

In addition, tobacco stocks shot up after the verdict was announced. RJR Nabisco Holdings soared 3 1/8 to close at 32 5/8 and Philip Morris, the nation's largest cigarette maker, skyrocketed 4 1/8 to 44 1/8.

"It's a fabulous day for the

tobacco industry" and will encourage settlement, said Gary Black of Sanford C. Bernstein & Co., one of the nation's leading tobacco analysts who had followed progress of the case closely.

"It helps settlement immensely," said Black, because if Connor's heirs had won a big punitive damage award, it would have been "almost politically impossible for the anti-tobacco crowd to bless" any settlement in which the industry was given any immunity from future liability, a demand industry lawyers have been making in negotiations.

Similar sentiments were made by a Boston law professor who is as hostile to the tobacco industry as Black is sympathetic. "I think the verdict is obviously going to be useful as a way of selling whatever the negotiators agree to," said Richard Daynard, co-director of the Tobacco Products Liability Project at Northeastern University. "If it came out the other way, the negotiators would have had a hard time selling anything."

Two RJR lawyers hailed the verdict in the case which had been closely watched, in part because one of the lead lawyers for the plaintiffs, Woody Wilner, had won a \$750,000 product liability judgment against Brown & Williamson Tobacco Corp. in Jacksonville last August, on behalf of smoker Grady Carter, who had lung cancer.

That verdict is on appeal and so far the tobacco industry has yet to pay out a dime in damages in more than three decades of litigation. Reynolds also won another product liability case in Indiana in the interim.

"I think that this again tells us

that the American jury system, despite a massive amount of publicity, is still willing to listen to the evidence, follow the law, and that smoking is a matter of choice," said Paul Crist of Cleveland's Jones, Day, Reavis & Pogue, who earlier prevailed in similar cases in Tennessee and Illinois.

In his closing argument, Crist asserted that Connor had made a voluntary decision to smoke and aware of the possible risks — an argument that has proved most successful for the cigarette injury in personal injury lawsuits.

Daniel Donahue, RJR's senior vice president and deputy general counsel, said the verdict showed that "jurors understand that the risks of the use of this product have been well-known for decades, if not centuries," and that "our society has made the policy decision that against the backdrop of those known risks, these are products which people ought to be allowed the opportunity to purchase."

Two of the plaintiffs' lawyers and other tobacco foes, including John Garrison, chief executive of the American Lung Association, said they saw the verdict as a temporary setback. They also stressed that the massive suits filed by the state attorneys general that lead to the current settlement negotiations are based on different legal theories than those in the Connor case.

"Don't forget, I lost my first two asbestos cases and you know what happened after that," said Ronald L. Motley of Charleston, S.C., referring to the fact that he had subsequently won numerous multimillion-dollar verdicts against asbestos companies.

Zairian Rebel Leader Predicts Victory over Mobutu Imminent

By Stephen Buckley
THE WASHINGTON POST

KINSHASA, ZAIRE

Zairian rebel leader Laurent Kabila said Monday that his forces could be in this capital city in the next "two or three days" and were already within 35 miles of Kinshasa's airport.

Kabila, whose rebel alliance controls about three-fourths of this vast central African country, said that if President Mobutu Sese Seko agreed to step down before the rebels reach Kinshasa, he would guarantee the president's safety, along with that of his family, news services reported from the southeast Zairian city of Lubumbashi.

But if Mobutu, whose 31-year rule has been marked by corruption and repression, does not resign, "we will have to chase him away in humiliation," he said.

"I once again appeal to Mobutu

to hand over power peacefully to me," Kabila added. "But if he does not, my forces are ready to enter Kinshasa in the next two or three days."

The U.S. ambassador to the United Nations, Bill Richardson, met Monday with Kabila in Lubumbashi to try to ensure what he called "a soft landing" as the rebels' entrance into the city appears imminent.

Here in the capital, a source familiar with negotiations between Kabila and the president said Mobutu is expected to leave office within a week and allow Kabila to enter Kinshasa to form a transitional government.

"Mobutu is probably in the single digits in terms of the number of days he'll remain in power," the source said. "There will be a transitional government, and it's going to be led by Kabila."

The source said that South African officials are working out the final details of an agreement in which Mobutu will leave office essentially in exchange for a pledge by Kabila's rebels to enter Kinshasa peacefully.

The South African government, which has been deeply involved in trying to settle Zaire's seven-month-old conflict, has played down the imminence of Mobutu's departure because South African President Nelson Mandela "is very deliberately addressing the issue of Mobutu's dignity," the source said.

Monday's developments came a day after Kabila met with Mobutu on a South African navy vessel for their first face-to-face talks since the rebellion began last October.

It was unclear whether the evolving agreement for Mobutu to step down arose from Sunday's negotiations.

Budget Plan Sounds Impressive, Lacks Specifics on Many Issues

By Judith Havemann
THE WASHINGTON POST

WASHINGTON

The fiscal plan laid out by Congress and the president to balance the nation's books may sound impressive. But now comes the hard part of figuring out precisely how to achieve the savings that negotiators claim to have made.

That job will fall to lawmakers, their staffers and the White House as they begin scouring federal programs looking for ways to carry out the broad goals set forth in the budget accord. Until that happens, analysts say, it is impossible to say with certainty what impact the budget cuts will have on the elderly, the poor, immigrants and others it is sure to affect.

"What they have agreed to is only the budget numbers," said John

Rother, chief lobbyist for the American Association of Retired Persons. "They have not agreed to some of the underlying policies, which will have just as much impact on consumers as the numbers."

Although the negotiators agreed to require Medicare recipients to pay higher premiums — \$4.50 more each month than they otherwise would have faced by the year 2002 — that is only a small fraction of the changes proposed to the program.

Most of the savings aimed at the federal health care program for the elderly will come from cutting payments to providers, mainly hospitals and health care plans.

But which types of hospitals will be cut and by how much is still up in the air. Negotiators didn't spell out, for example, to what degree so-

called "teaching hospitals" will be cut. Yet because these research institutions are typically located in urban areas and treat large numbers of uninsured, analysts say how much they get squeezed could ultimately affect the patients they serve.

Budget negotiators also agreed to expand health care for about 5 million poor children, at a cost of about \$17 billion over five years. What they left unclear was how the program would be administered and who would qualify.

If the program is set up as an "entitlement," basic federal benefits would be guaranteed and Washington would outline eligibility standards. If lawmakers decide to give money to the states to devise their own plans, it would be up to each state capital to decide what services are covered and for whom.

Oakland Schools Report Drops Reference to 'Ebonics'

LOS ANGELES TIMES

The Oakland schools task force that six months ago declared the speech patterns of some black students a separate language has issued a new report that does not use the term "ebonics."

The new document, to be presented to the Oakland Board of Education on Wednesday, omits past suggestions that teachers be trained to speak black English and that the school district consider applying for federal bilingual education funds for black students.

What it does propose is a comprehensive but conventional series of moves to improve the educational achievement of the black majority in the 52,000-student district.

"I think they're trying to avoid being a media spectacle again," said Jean Quan, the president of the Oakland Board of Education.

But she said the district is not backing down from its original intent of helping improve student achievement by recognizing linguistic differences.

"Our kids don't speak standard English and we want to respect the culture they bring from home and want to use it to help them speak standard English," Quan said. "Whatever you call it, many of our children from our poorest neighborhoods don't speak standard English."

The resolution adopted in December directed Oakland Superintendent Carolyn Gettridge to work with the task force to come up with policies and programs to improve the performance of black students. That process, in turn, gave the task force the opportunity to tone down its rhetoric.

Gettridge's cover letter on the new recommendations states that "it is the combination of rigorous, high quality educational programs, family and community support and consistent monitoring and evaluation that will make significant and measurable improvements in the achievement of African American students."

Butterflies Navigate by the Sun

THE WASHINGTON POST

In making its astonishing, 2,400-mile seasonal trek across North America, the monarch butterfly apparently practices a skill that many weekend boaters and pilots can only wish they had: the ability to use the sun as a compass.

Scientists demonstrated the insect's special talent in a study reported in the May 1 issue of the journal Nature. But to navigate properly, the researchers say, the butterfly's own internal clock also must be on the correct setting.

University of Arizona biologist Sandra Perez and two colleagues kept butterflies in darkness for six hours to disorient them. Then the scientists released the monarchs to see if the conflict between the sun's position and their biological clocks would cause confusion.

It did. The butterflies — their internal timing off by six hours — aligned their bodies with the afternoon sun and flew west-northwest, instead of their normal south-southwest migration route.

"The monarch butterfly thus joins the small group of species for which a sun compass orientation mechanism has been demonstrated experimentally," Perez said. Researchers still don't know exactly how the butterflies do this.

Even more impressive is the insect's ability to stay on course during overcast days, Perez said.



Graduate Student Council

Walker Memorial, 50-220 ☎ 253-2195 ✉ gsc-request@mit.edu 🌐 www.mit.edu/activities/gsc

Institute Committees

Applications for graduate representatives to Institute Committees are now being accepted.

- Assessment of Biohazards • Athletic Board •
- Commencement • Community Service Fund Board •
- Copyrights and Patents • Corporation Joint Advisory •
- Discipline • Faculty Policy Committee •
- Family and Work • Foreign Scholarships •
- Graduate School Policy • IAP Policy • Library System •
- Martin Luther King Jr. Memorial Planning •
- Medical Consumers' Advisory • Privacy •
- Radiation Protection • Safety •
- Shareholder Responsibility • Student Affairs •
- Task Force on Student Life and Learning •
- Transportation and Parking •
- Undergraduate Admissions and Financial Aid •
- Use of Humans as Experimental Subjects •
- Women's Advisory Board •

More information can be obtained at our web site, www.mit.edu/activities/gsc

Calendar

► M A Y

- 07** General Council Meeting*
- 08** Academics, Research, and Careers Meeting*
- 13** Housing and Community Affairs Meeting*
- 14** Activities Meeting*
- 16** Last Friday Social of the term! *

► J U N E

- 05** Graduate Ring Days at Kendall Coop; also June 6
- 06** Commencement

* at 5:30pm in Room 50-220. All graduate students are welcome. Food is provided.

OPINION

End to Dining Monopoly Is Welcome

Last week, the food services working group announced its preliminary recommendations for the future of dining at MIT. The group proposed breaking up the dining monopoly currently

Editorial

held by Aramark. The tentative plan will allow every dining hall on campus — including several long-dormant dormitory dining halls — to be reopened under the control of a separate outside bidder. In addition, other facilities, ranging from LaVerde's Market to the food trucks to Au Bon Pain in Kendall Square, may become eligible to accept the MIT Card.

These proposals could translate into very welcome changes, and they open up the way to a far better dining system. Despite repeated arguments that only a monopoly can take advantage of economies of scale and test new concepts, six years with Aramark has shown that a dining monopoly cannot effectively serve students. The new competitive system will allow multiple companies to bid for contracts and then compete with each other to attract customers. The result will be nimble and aggressive contractors who can adapt rapidly to students' needs. The expansion of the MIT Card to local restaurants is another excellent idea that can benefit both MIT students and those businesses.

Reopening closed dormitory dining halls is a trickier proposition, and one which should be carefully considered by the Institute before opening the halls to outside bidders. Residents of McCormick Hall, Burton-Conner House, and MacGregor House were justly upset when their dining halls were closed several years ago. But while the convenience of dormitory dining for residents is indisputable, reopening dormitory dining halls for business might not be economically feasible.

The central issue is what matters more to MIT students and the administration — community or cost. It is well known that reopening the dormitory dining halls will require that some group invest significant amounts of capital in the dormitories.

MIT or outside vendors will have to re-equip and refurbish kitchens and dining rooms that have lain fallow for years.

In all likelihood, it will take a while for the dining halls to start turning a profit. And if Baker House's student-run dining hall is any predictor, the dining halls may never be out of the red. Aramark's difficulty in making Baker Dining self-sufficient will prove a warning flag to prospective bidders. It is quite possible that no large company will bid to take over dormitory dining halls, maybe forcing MIT to pay a well-known contractor to oversee the dormitories — maybe Aramark. MIT might also end up offering prospective bidders first dibs on more profitable areas, like Lobdell Food Court, to sweeten the pot — a situation that could lead back to a virtual monopoly.

There are also dormitory-specific questions. For example, many MacGregor residents have grown accustomed to MacGregor Convenience, one of the few popular Aramark enterprises. Because of space constraints, reopening MacGregor's dining hall might force the convenience store to close. If most MacGregor residents would rather have the convenience store and a choice has to be made, the convenience store should stay.

All of these issues will require some hard choices about whether the convenience and community spirit fostered by dormitory dining is worth the economic burden. The tentative plan does not consider these fiscal matters, which they could open the door for substantial changes to the plan later on.

The dining group's report laudably reflects a long process of working with students and listening to their ideas. However, the report has the worrying tendency of being all things to all people. While that may not be bad for a first draft, some things will probably have to be cut. Dissolving the monopoly has been a long time coming, and such a move will serve students well. Dormitory dining, however, deserves further scrutiny.

Letters To The Editor

Outside Donations Should Not Become Internal Scholarships

Early this February, I received a letter from the Student Financial Aid Office congratulating me as a recipient of a Haebler Scholarship. Naturally, I was honored by the award and excited about receiving much-needed aid for my education. As I read more, however, I was disappointed to learn that the scholarship was being used to reduce my MIT grant. The so-called scholarship reduced neither my current contribution to tuition nor my rapidly accumulating loans.

To add insult to injury, the office requested that I send a note of thanks to the donors. Miffed, I decided that my best course of action was inaction; I did not write the thank-you note. I had almost forgotten about the scholarship until last week, when I received a message from the Office of Communications and Donor Relations reminding me about the note.

Donations are unquestionably essential to the survival of MIT, and I thank the many donors for their contributions to our school. I certainly am pleased with the quality of my education here, and I realize that it would not be possible without alumni contributions. Currently, over 60 percent of MIT undergraduates require some sort of financial aid, and MIT's need-blind admissions policy relies on the generosity of those who make donations.

A scholarship, on the other hand, is a specific type of donation that is meant to award individual achievement. By essentially scattering the funds across the institution, MIT belittles the very achievement that the scholarship is intended to award. It would be senseless to award a donation intended for the community to an individual; similarly, it is senseless to

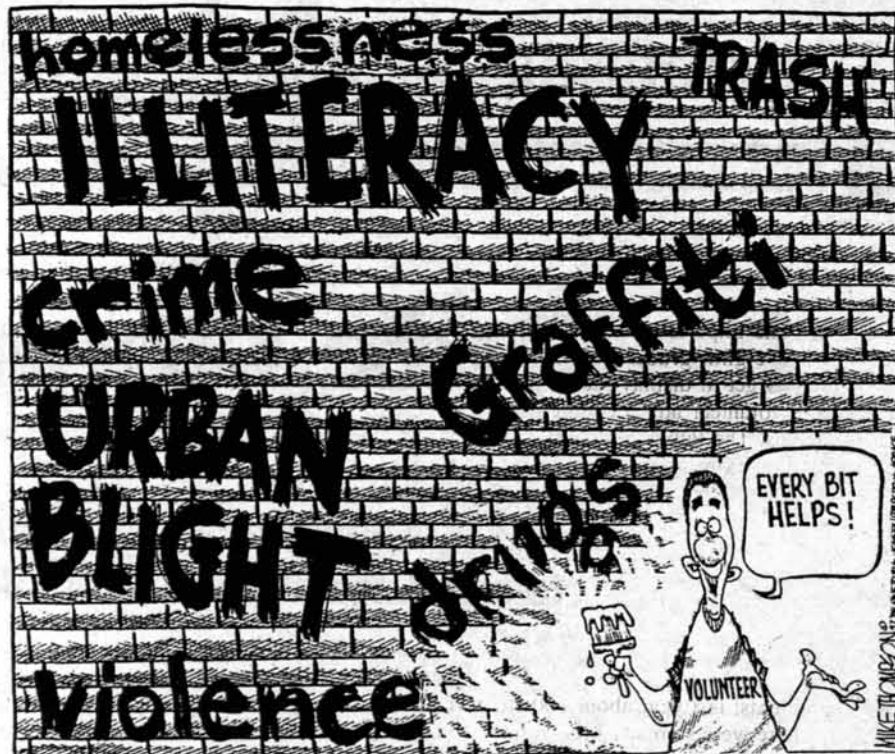
award a scholarship to an institution.

The MIT policy on outside scholarships is clear — 40 percent of each scholarship is used to reduce student self-help, and 60 percent is used to reduce MIT grants. The Haebler Scholarship, however, is an inside scholarship, and the funds are given first to MIT. For these scholarships, the policy is clearly to use 100 percent to reduce MIT grants. Although this arrangement reduces the financial burden for all students, it provides very little real ben-

efit to the recipient of the scholarships.

I do not mean to imply that I am in any way more deserving of financial awards than my peers. I do, however, urge MIT to stop extending these ghost scholarships. It is offensive to congratulate students for scholarships that they will not receive. I will write the thank you note to the altruistic donors, but I will thank them for their contribution to MIT, and not for the scholarship that never was.

Samuel T. Browning '97



Opinion Policy

Editorials, printed in a distinctive format, are the official opinion of *The Tech*. They are written by the editorial board, which consists of the chairman, editor in chief, managing editor, executive editor, news editors, and opinion editor.

Dissents, marked as such and printed in a distinctive format, are the opinions of the signed members of the editorial board choosing to publish their disagreement with the editorial.

Columns and editorial cartoons are written by individuals and represent the opinion of the author, not necessarily that of the newspaper.

Letters to the editor are welcome. Electronic submissions are encouraged and may be sent to letters@the-tech.mit.edu. Hard copy submissions are accepted as well, although e-mail is preferable. Hard copy submissions must be typed, double-spaced, and addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. No letter or cartoon will be printed anonymously without the express prior approval of *The Tech*. *The Tech* reserves the right to edit or condense letters; shorter letters will be given higher priority. Once submitted, all letters become property of *The Tech* and will not be returned. We regret we cannot publish all of the letters we receive.

To Reach Us

The Tech's telephone number is (617) 253-1541. E-mail is the easiest way to reach any member of our staff. Mail to specific departments may be sent to the following addresses: ads@the-tech.mit.edu, news@the-tech.mit.edu, sports@the-tech.mit.edu, arts@the-tech.mit.edu, production@the-tech.mit.edu, photo@the-tech.mit.edu, circ@the-tech.mit.edu (circulation department). For other matters, send mail to general@the-tech.mit.edu, and it will be directed to the appropriate person. *The Tech* can be found on the World Wide Web at <http://the-tech.mit.edu>.



Chairman
Daniel C. Stevenson '97

Editor in Chief
David D. Hsu '98

Business Manager
Angela Y. Liao '98

Managing Editor
Josh Bittker '99

Executive Editor
Thomas R. Karlo '97

NEWS STAFF

Editors: Venkatesh Satish '98, Dan McGuire '99; **Associate Editors:** Brett Altschul '99, Jean K. Lee '99, May K. Tse '99, Frank Dabek '00, Douglas E. Heimburger '00, Zareena Hussain '00; **Staff:** Eva Moy G, Kyle Young G, James M. Wahl '97, Christopher L. Falling '98, Noémi Giszpenc '98, Orli G. Bahcall '99, Shawdee Eshghi '99, Carina Fung '99, Fenny Lin '99, Eric Sit '99, Stuart Jackson '00, Liz Krams '00, Dudley W. Lamming '00; **Meteorologists:** Michael C. Morgan PhD '95, Gerard Roe G, Marek Zebrowski.

PRODUCTION STAFF

Editors: Saul Blumenthal '98, Russell S. Light '98, Jason C. Yang '99; **Associate Editor:** Moksha Ranasinghe '99; **Staff:** Jimmy Wong '97, Betty Chang '98, Larry Chao '98, Nancy Hsiung '99, Binh Truong '99, Erica Pfister '00, Brian T. Sniffen '00, Billie Wang '00.

OPINION STAFF

Editor: Stacey E. Blau '98; **Staff:** Anders Hove G, A. Arif Husain '97, Abigail Miekko Vargus '97, David S. Kelman '99.

SPORTS STAFF

Editor: Erik S. Balsley G; **Staff:** Hana Ohkawa G, Bo Light '96, Martin Duke '97, Chris Lin '97, Jason Weintraub '97, Chris Brocoum '00.

ARTS STAFF

Editor: David V. Rodriguez '97; **Staff:** Thomas Chen G, Jonathan Litt G, Teresa Esser '95, Brian Hoffman '97, Teresa Huang '97, Kamal Swamidoss '97, Rob Wagner '97, Hur Koser '98, Yaron Koren '99, Daniel Ramirez '99, Joel M. Rosenberg '99, Stephen Brophy.

PHOTOGRAPHY STAFF

Editors: Gábor Csányi G, Indranath Neogy '98; **Staff:** Rich Fletcher G, Alkan Kabakcioglu G, Jonathan Li G, Gabriele Migliorini G, Arifur Rahman G, Jiri Schindler G, Helen Lin '97, Tiffany Lin '97, Christine Chan '98, Adriane Chapman '98, Ahmed Ait-Ghezala '99, David Tarin '99, Ian Chan '00, Gregory F. Kuhnen '00, Rita H. Lin '00, Chun Hua Zheng '00.

FEATURES STAFF

Hugo M. Ayala G, Zachary Emig '98, Jessica Wu '99, Pawan Sinha.

BUSINESS STAFF

Advertising Manager: Cristián A. González '99; **Associate Advertising Manager:** Jennifer Koo '00; **Operations Manager:** Pamela Shade '98; **Staff:** Jessica Maia '98, Terri A. Wilson '99, Joey Dieckhans '00.

TECHNOLOGY STAFF

Director: Timothy K Layman '97; **Associate Director:** Christina Chu '98; **Staff:** Ifung Lu '97, Laurie M. Leong '00.

EDITORS AT LARGE

Contributing Editors: Shang-Lin Chuang '98, Jennifer Lane '98; **Senior Editor:** Ramy A. Arnaout '97.

ADVISORY BOARD

V. Michael Bove '83, Robert E. Malchman '85, Thomas T. Huang '86, Reuven M. Lerner '92, Josh Hartmann '93, Jeremy Hylton '94, Garlen C. Leung '95, Scott C. Deskin '96.

PRODUCTION STAFF FOR THIS ISSUE

Night Editors: Josh Bittker '99, Jason C. Yang '99; **Associate Night Editor:** Moksha Ranasinghe '99; **Staff:** Saul Blumenthal '98, Nancy Hsiung '99, Douglas E. Heimburger '00.

The Tech (ISSN 0148-9607) is published on Tuesdays and Fridays during the academic year (except during MIT vacations), Wednesdays during January and monthly during the summer for \$35.00 per year Third Class by *The Tech*, Room W20-483, 84 Massachusetts Ave., Cambridge, Mass. 02139-7029. Third Class postage paid at Boston, Mass. Non-profit Organization Permit No. 59720. **POSTMASTER:** Please send all address changes to our mailing address: *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029. Telephone: (617) 253-1541, editorial: (617) 258-8324, business: (617) 258-8226, facsimile: (617) 258-8324. Advertising, subscription, and typesetting rates available. © 1997 *The Tech*. Printed on recycled paper by Mass Web Printing Co.

MIT Should Overhaul Its Badly Broken Tenure Process

Column by Anders Hove
COLUMNIST

Of all the factors affecting what education people receive when they go to college, the tenure system ranks among the most secretive and insidious. The tenure process, hidden though it may be, plays the paramount role in determining the character of MIT's faculty and, by extension, the nature of the educational product students receive here. In spite of its critical importance, the tenure system has remained untouched by critical discussion either by students or administrators.

The tenure system is badly broken. It is broken in that it does not go far enough toward delivering the educational product demanded by students. Nothing could do more to improve the character of an MIT education than to totally rethink the way we recruit, promote, and grant tenure to prospective faculty.

The road toward tenure begins in earnest with the hiring of junior faculty. The primary method for recruiting junior faculty is the job talk: A candidate flies into town for a couple of days, gives a presentation of his or her research, fields some questions, and hobnobs with departmental bigwigs. After a day or two of superficial contact, the candidate jets off to the next school for more of the same.

The job talk serves one primary function

— it allows the selection committee to minimally determine how well a candidate's research will mesh with the research currently being done by the faculty.

The job talk is geared toward the research interests of the faculty. It is said that teaching experience looks good, and certainly a candidate's personal presentation plays a role in the process, but these are secondary considerations. The role a prospective faculty member might play in the community is completely ignored.

Once hired, junior faculty members have a few years to show their stuff before going up for tenure. This is a critical time in the organization's recruitment process. The new member has committed himself or herself to the institution but is not fully accepted within its ranks. The new member will thus look for cues as to what behavior will lead to promotion. There is also the opportunity for junior faculty to explore their community and their fields of study — to hone their teaching skills, become involved on campus, and to interact with students and colleagues.

The current tenure process essentially precludes the period of study and exploration by placing extremely high demands on the junior faculty member's time. By far the most important consideration is the quality of the candidate's research. One measure of quality, of course, is quantity — the more papers and books the better. Another measure of quality is citation. Is the author's work being cited in the current literature? Is the candidate's work widely discussed within the field? These things take time. When they're not flying around the

world pumping up interest in their work, junior faculty must administer and conduct their research and write it up for publication.

While some teaching experience is considered mandatory, the quality of the candidate's teaching plays a peripheral role in his or her consideration. While the importance of teaching certainly varies by department, it is often the case that teaching can play only a negative role in a candidate's selection. In other words, bad teaching can indeed hurt a candidate, but the difference between average and exceptional teaching may pass entirely unnoticed.

Given this process, it is not surprising that teaching and community involvement usually fall by the wayside. MIT's Lewis Committee recognized this in 1949 when it wrote, "Institute standards of professional competence are so high that the outstanding specialists who are sought for faculty posts must work exceedingly hard to maintain and enhance their standing among their professional colleagues in the highly professional world. Necessarily they have little time for other interests. In many ways these situations are the root of the problem of general education at the Institute."

The Lewis Committee was optimistic that top-notch researchers could be found who

would also be good mentors, teachers, and community leaders. And MIT does have such people, just as we did 50 years ago. That we do, it seems, is more by fortuitous coincidence than by intent. In spite of the Lewis report's recommendation, nothing has been done to recruit a "super-faculty" of people who "find time for the nonprofessional civic and cultural interests which characterize the ideal teacher."

Why haven't things changed? By perceived necessity, the tenure system is still run by MIT's schools and departments. Departments themselves face the overwhelming constraint of supporting themselves financially. The fundamental question for a department is whether a candidate can contribute to the department's research output, not its educational output. Where education and quality research coincide, fine. But so often good teachers and community leaders are passed over for those who, in the end, will contribute far less to the quality of an MIT education than they will to the immediate financial needs of their department.

The problems with tenure are so systemic and pervasive that nothing short of a complete overhaul will cure them. The stakes may be high, but the potential gains to the quality of an MIT education may be immense.

Physical Plant Should Repair Unattractively Dripping Arch

Column by Erik S. Balsley
SPORTS EDITOR

Ah, the signs of spring. The chirping birds, blossoming trees, warm breezes, and the sounds of Physical Plant working busily to try to hide the fact our campus is made of over 90 percent impervious material. So as preparations for Commencement continue, I hope that the time is used to help correct a pretty visible physical problem — the leaking arch by the Media Laboratory.

You know what I'm talking about. As you walk from the Medical Center toward the main campus there's that big arch to the right of the Media Lab. Reading from left to right, using a corner of the building, the arch spells out MIT. Isn't that just damn swell.

To my understanding, when that part of east campus was constructed in the 1980s, it was the result of a planning process that tried to improve the experience of campus as you moved from the Kendall Square T station. The firm I worked at this past summer helped write a piece of this — the Northeast campus master plan.

The arch is something called a gateway amenity. The theory goes something like this — you see the arch, you walk through the arch, you've entered MIT. The problem is that since the beginning it has been leaking. The one thing that is supposed to say welcome to MIT is dripping upon passers-by. Welcome to MIT.

MIT, unlike many other campuses, is open, meaning that we do not have gates and fences surrounding our academic buildings. For schools with these gates, they indicate arrival points. The arch is our attempt to create a similar amenity. The dripping is akin to having these other institutional gates rusted shut. It just looks bad.

There are two reasons I'm somewhat disturbed by the falling arch. One, it's been dripping for a long time. Every now and then, some blockades have gone up to prevent peo-

ple from getting a shower as they walk under it, but I have yet to see someone working to fix the problem. During this time however, all the curved glass on the first floor of the Media Lab has somehow managed to have been replaced.

As I look at it there are many possible reasons for the drip. It is possibly some Media Lab experiment, though I think this falls somewhat outside their field of inquiry. Or the drip is coming from a pool of water on top the arch. Or there's a pipe going through the arch. Now if this is the case, what the hell is the point of pumping water up the arch only to have it come back down?

Anyway, all of these problems appear to be somewhat fixable. My concern is why the leaking just hasn't been fixed. I will be graduating in June and my relatives will be coming to watch. Now what will they get at the end of their over \$100,000 investment? A chance to see me graduate and to get dripped on by leaky infrastructure.

I'm sure that will make an impression. I would like to show them the whole campus, but perhaps we'll bypass the arch if it is still dripping. I would much rather show them some less attractive parts of campus that are not broken rather than show them broken gateways.

Besides being an unattractive problem, it's hazardous as well. I really don't want to see my relatives injured if they slip in the puddle under the arch. I just hope that in the four weeks before Commencement the drip is fixed. If not, I've got some spackle and a caulk gun ready. Somebody's got to fix this thing.

Erik S. Balsley is a graduate student in the Department of Urban Studies and Planning. If you had time to read this column, you've got time to write a chapter of his thesis. Erik is going to Japan next year, so you can be sports editor next term, too. Offers can be sent to balsley@the-tech.mit.edu.



MIT/Cambridge Science Expo Proves a Tremendous Success

Column by Abigail Mleko Vargus
COLUMNIST

On Wednesday, April 30, MIT's Public Service Center sponsored the MIT/Cambridge Science Expo. The Expo is a science fair for the seventh and eighth graders of 12 local schools. The kids get to display their experiments for MIT volunteer advisors and go on tours of MIT labs. The Public Service Center characterizes the Expo as the culminating event for the center, tying together all of their programs.

I want to applaud all who took part in this event. Because of the many MIT students who volunteered their afternoon, there are many students who benefited. This year was the fifth annual Expo and the biggest one yet. There were more than 180 Cambridge students; last year about 100 students came. There were so many MIT volunteers that the students were always busy. The event was aided by several science teachers from the schools. Additionally, a number of local businesses made the event possible, providing T-shirts, Tosci's certificates, and pizza.

It's easiest to start off applauding the "big people." These are people like Emily B. Sandberg, assistant dean and director of the Public Service Center. However, when I spoke with her, she made sure to emphasize that it is the student participation that makes this event what it is. The Public Service Center is a two-person office, and this event was largely organized by the two student coordinators, Shonna Yin '97 and Michael M. Bryzek '98.

The two students began work for the Expo in January and managed to double the participation from last year. I spoke with both of the coordinators toward the end of the Expo. While they looked tired, they also looked satisfied. Both noted that the Expo was important because of its function to strengthen MIT-Cambridge relations. Yin commented that the Expo gives them a sense of what MIT is like

and helps to encourage them to explore the sciences.

This idea was echoed by observers from both MIT and Cambridge. Paul Parravano, assistant for community relations, labeled the Expo one of the proudest moments of the year. Melanie Barron, the coordinator of science for Cambridge public schools, characterized the Expo as a physical expression of the partnership between Cambridge and MIT.

The MIT students are the people who really made the Expo possible. Most of these students are repeat-volunteers. Sandberg mentioned that most have been to the Expo in years past, or participate in LINKs, or are fellows for the Public Service Center. I talked to a few of the volunteers as well. Tim B. McAnaney '98 was the logistics team coordinator and had participated in the past two years' Expos. Why does he volunteer? Just because it's fun and a good way to help. Another student, Juliet C. Midgley '98, was a first-time volunteer. A friend asked her to help, and she found it a rewarding experience.

Who can truly attest to the great job that these students have done? The Cambridge community. Two students from the Peabody school, Siobhan O'Sullivan and Vanessa Winfield, were really excited when they found out that they were selected to come to the Expo. Once they were here, they said that the MIT students were really encouraging. Another group of students from the Fitzgerald school appreciated the hard work that went into the tours.

The adults — those who probably most influence MIT's place in Cambridge — also realized the hard work that went into and the benefits that come out of this. A science teacher from Peabody, Grant Avery, noted that MIT volunteers' openness, friendliness, and willingness to participate with Cambridge students has been truly amazing.

All the volunteers did a great job, and many people from many places definitely did notice.

M.I.T. Community Summer Softball 1997

Umpire Meeting
New Umpires Welcome!
Wednesday 7 May

5:30pm
1-190

Umpire Clinic: Thursday
15 May, 5:30pm, 1-190
For more information, contact:
Mark S. Throop, MITCSS Coordinator
MIT Rm. 50-222,
Messages: 508-734-3639,
508-877-9263(h)



**Spring is here.
You need MUSIC!**

Q Audio 547-2727 95 Vassar St., Cambridge
Your Complete Stereo Store @ MIT

SONY. Paradigm NAD ~~REPAIRS~~ NHT
<http://www.qaudio.com>

M-F 10-8 Sat. 10-6 Sunday-Ah! Rest

**Did you just see that?
Let us know!**

Call *The Tech* news office at 253-1541.

Coming Soon To A Life Near You.



JANE JENSEN COMIC BOOK WHORE INTERSCOPE

CASSETTE 5.99
\$8.99

Music makes your life more fun!

Try some today!

NOT AVAILABLE ON CASSETTE
\$12.99



SISTER HAZEL SOMEWHERE MORE FAMILIAR UNIVERSAL

We've got music to fit any life!

FOR A LOCATION NEAR YOU, CALL TOLL FREE 1-888-REPLAY-1.



sam goody
goody got it!

We're fluent in music. How 'bout you?

POLICE LOG

The following incidents were reported to the Campus Police between April 24 and 30:

April 24: Bldg. 11, wallet stolen, \$10; Johnson Athletics Center, truck window maliciously damaged.

April 25: Student Center, leather jacket and watch stolen, \$310; Bldg. 10, suspicious activity.

April 27: Main lot, Glenwood Swain, of 5 Columbia Terrace, arrested for attempted larceny of a bicycle; Theta Delta Chi, James Johnson, of 3 Goldzar Place, Somerville; Allen Howard, of 50 Corcoran Park, Cambridge; and one male who refused to identify himself, arrested for trespassing and other related charges; Student Center, Jason Buzzell, of no known address, arrested for trespassing; Ashdown House, Lee Maxwell, of 56 Hallowell St., Mattapan, arrested for trespassing and other related charges.

April 28: Bldg. 6, desk stolen, \$100; Bldg. 10, attempted telephone fraud; Bldg. E19, cash stolen, \$60.

April 29: Bldg. E51, 1) laptop and wallet stolen, \$3,120; 2) T-shirts stolen, \$350; Bldg. W20, annoying e-mail.

April 30: Random Hall, suspicious activity; Bldg. 13, attempted larceny of mulch; Bldg. E23, language translator stolen, \$450.

S
U
M
M
E
R
1
9
9
7

HELP!!

Where will you be during the **SUMMER OF 1997?**

HANG OUT IN KENMORE SQUARE!!

Parents' and Children's Services will train you to be a hotline telephone counselor

THE PARENTAL STRESS LINE AND THE FIRST CALL FOR HELP LINE

will give you a great introduction to the world of Human Services

AND YOU WILL HAVE AN UNFORGETTABLE SUMMER

Training starts in the Spring

CALL NOW for more information and to schedule an interview

CONTACT Kyle, Volunteer Coordinator 437-1990, x. 100

This space donated by *The Tech*

TUFTS Summer

Visiting students welcome!

Day and evening classes are available in two six-week sessions:
May 21 - June 27 • July 1 - August 8



Discover the best value in Boston! \$1050 for most courses. No problems transferring credit — courses are four semester hours.

Located just five miles from Boston, our scenic campus is easy to get to, offers ample parking and convenient access.

Benefit from a summer course. Lighten your fall course load, concentrate on a difficult course or make up credit.

For a catalog:

Call (617) 627-3454, or

e-mail: summer@infonet.tufts.edu

Our catalog is also on the web: www.tufts.edu/as/summer or mail the coupon below.

Please send a Tufts Summer Session catalog to:

Name _____

Address _____

City _____ State _____ Zip _____

Mail to: Tufts Summer Session, 108 Packard Avenue, Medford, MA 02155



RED MEAT

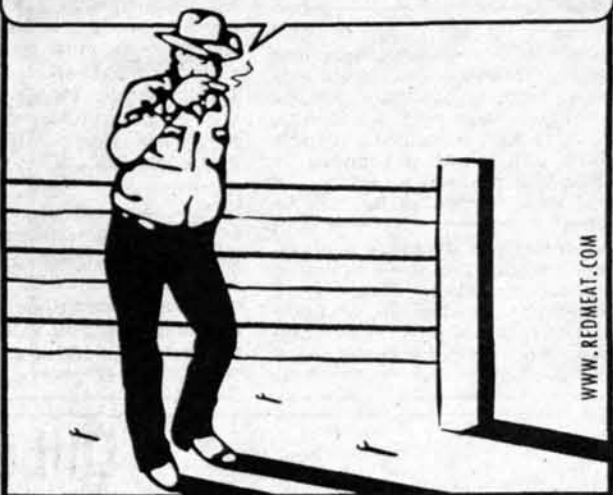
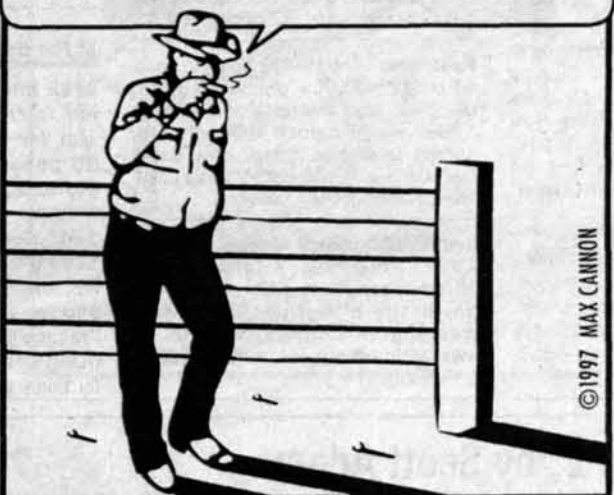
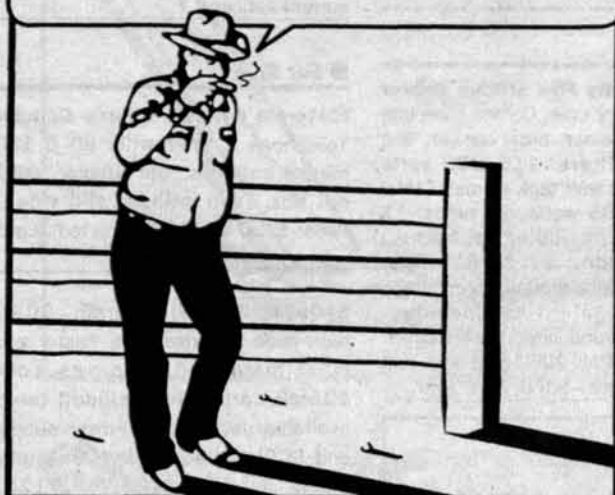
bendy-straw for spitoon guzzlers

from the secret files of
Max Cannon

Good golly boy, I'll tell you what... there's sure nothin' that tastes as right as that first dang ol' cigarette as the sun's a'pokin' up.

But hell's bells, it surely does get a might lonesome around here sometimes. Shoot, I'd give my best heifer for some company.

Well...I reckon I can always go pick some more methamphetamine out'a the chicken feed, so's them crazy voices'll start talkin'.



©1997 MAX CANNON

WWW.REDMAT.COM

ENTER THE TRAVEL ZONE
and explore the world for less

Council Travel

MIT Student Ctr. W20-024
84 Massachusetts Ave.
Cambridge
Tel : 617-225-2555

A BRIEF INTRODUCTION TO BUSINESS FOR GRADUATE STUDENTS AND POSTDOCS

Open to all who are interested.
All talks held in 4-163 at 4 P.M.
No pre-registration required.

Mon., April 28: *Presenting Your Work (and Yourself) to a Business Audience*, by JoAnne Yates, Assoc. Prof. of Management Communication, Sloan School

Mon., May 5: *An Overview of American Patent Law*, by Jeffrey Meldman, Sr. Lecturer & Dir. of Undergraduate Programs, Sloan School

Mon., May 12: *Entrepreneurship: What's Hot and What's Not*, by Ken Morse, Managing Dir., MIT Entrepreneurship Center

Mon., May 19: *Case Study: The Economics of Standards and the Competitive Effects of Uncertainty*, by Scott Stern, Asst. Prof. of Management, Sloan School

Sponsor: Office of Career Services and Preprofessional Advising.
Questions? Contact hannahb@mit.edu.



'98 ZX2

WHEN THE CARS ARE THIS HIP,

THE HEADLINE CAN BE LAME



'97 Ranger Splash

The deal for college grads, however, is pretty exciting.

Pre-approved credit and \$400 cash back on any new Ford, like the new ZX2 or Ranger Splash. Stop by for a test drive

today. Unless you like staring at lame ads.



Anyone enrolled in graduate school or who has or will graduate from an accredited four-year college, junior college, community college, nursing school or trade school with an undergraduate or graduate degree between October 1, 1995 and January 3, 1998 is eligible for the cash rebate when you take retail delivery from January 4, 1997 thru January 3, 1998. Qualified buyers from Ford Credit are restricted to pre-approved credit on purchases only up to \$18,000 or MSRP whichever is lower. Residency restrictions may apply. All 1996, 1997 and 1998 Ford cars, light trucks and minivans are eligible. See dealer for additional details.

CLASSIFIEDS

- Events
- Housing
- Travel
- Help Wanted
- Services Offered
- Information
- Positions Wanted
- Lost & Found
- Clubs
- For Sale
- Greeks
- Miscellaneous

Advertising Policy
Classified ads are due at 4:30 p.m. two days before day of publication, and must be prepaid and accompanied by a complete address and phone number. Send or bring ads, with payment, to W20-483 (84 Mass. Ave., Room 483, Cambridge, MA 02139). Account numbers for MIT departments accepted. Sorry, no "personal" ads. Contact our office for more details at 258-8324 (fax: 258-8226) or ads@the-tech.mit.edu.

Classified Advertising Rate:
\$5.00 per insertion per unit of 35 words

Help Wanted

Healthy men needed as sperm donors. Help others and earn up to \$120/wk. Must be between 19-34 & 5'9" or over. Call 497-8646 to see if you qualify! California Cryobank, Inc., Cambridge.

Please help (\$5,000.00 Compensation). Infertile couple seek (oocyte) donation. The ideal candidate is a healthy Caucasian, average or above average height (drug free) age 20 to 29. Confidential screening, minor outpatient procedure is required. Compensation for time and effort. Please call 617-979-4311.

Webmaster and database administrator positions available with Project Vote Smart, a Voter Information Organization based at Oregon State University. Check <http://www.vote-smart.org/jobs.html> for details or call 541-754-2746.

Help Wanted

Advanced Internet Web site creation - VirtuFlex software offers aspiring web developers weekly training sessions every Thursday evening from 7 pm to 9 pm. People with a basic working knowledge of HTML can learn more advanced methods of creating web sites for most telecommunications via the internet. This training seminar is free. Please call for more information: VirtuFlex Software 930 Mass. Ave. Cambridge, MA 02139. 617-497-8006 ext. 32. Or find out more via the internet: <http://www.virtuflex.com>.

Web page designer to help create new web site, must be experienced, motivated, creative. Resume & URL references to 259 Walnut St. #2, Newton, MA 02160. Fax to 617-527-7074.

Help Wanted

College financial aid - Student Financial Services has information on 3,400+ public and private sector funding sources. A must for anyone seeking financial aid! For information: call 1-800-263-6495 ext. F50332 (We are a research and publishing co.)

Fundraiser - Motivated groups needed to earn \$500+ promoting AT&T, Discover, gas, and retail cards. Since 1969, we've helped thousands of groups raise the money they need. Call Gina at (800-592-2121x110). Free CD to qualified callers.

South Africa Study Abroad May-June 1997. Three week travel study abroad program offered by the University of Vermont and Mary Washington College. Visit us at www.africastudy.com or call (888) 597-8839.

Help Wanted

Students needed to pack and ship parcels to be sent via UPS at the end of the semester. \$10/hour call 1(888)654-SHIP or e-mail upsn444@aol.com

For Sale

8752 Integrity Five Station Brewer with faucet for sale. Comes complete with line strainer, brew basket, and 25 paper filters. 115/230 volts 60/hz. 3500 watt tank element, total wattage: 4435 watts, 20 amps. 17 1/4" deep (including faucet) 23 11/16" wide, 21 7/8" high. Requires 3 wire ground cord, single phase. Decanters not included. Practically brand new, hardly used. Questions? Call 225-1500 and ask for Erica. Worth ~\$300; best offer.

For Sale

Seized cars from \$175. Porsches, Cadillacs, Chevys, BMW's, Corvettes. Also Jeeps, 4WD's. Your Area. Toll Free 1-800-218-9000 ext. 3797 for current listings.

For Sale

Motorola Dynasty Deluxe Cellular Telephone. Comes with: 60 & 120 minute batteries, car adapter, original box, instructions, and video. Price: \$250 o.b.o. If interested, leave a message at 288-2206.

SyQuest EZ135: External, SCSI, removable cartridge drive. Faster and holds more than Zip drives. Four 135MB cartridges included (also available separately). Power supply and SCSI cable included. Originally \$200, slightly used for \$120. Contact daniels@the-tech.mit.edu

Positions Wanted

Person with 25 years of hands-on experience in metal casting, lost wax and sand. Has strong problem solving ability, would be interested in working a few hours per month as a consultant, call 508-653-9484.

Housing

Researcher (and family of 5) from Copenhagen, Denmark looking to rent/exchange house from 7/1/97 to 6/31/98. Contact Coleen McSharry - New England Medical Center 636-8655.

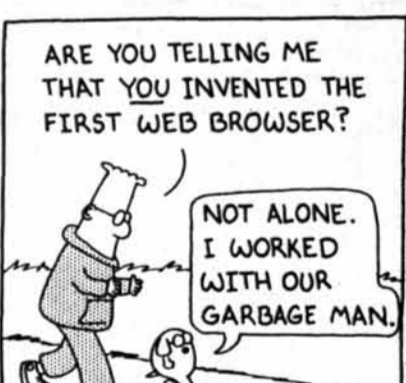
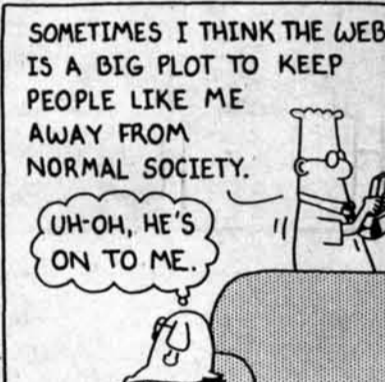
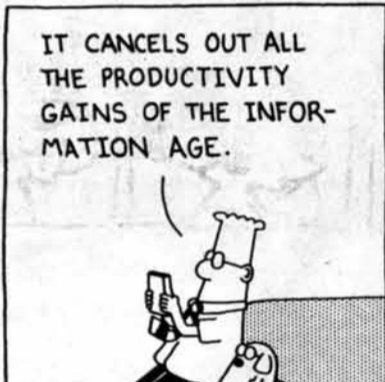
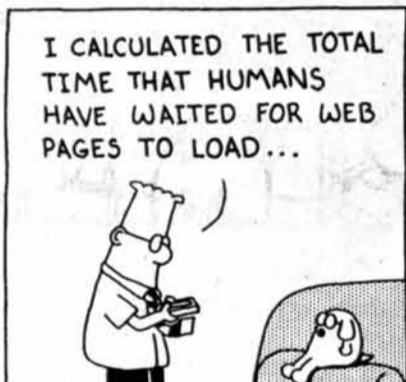
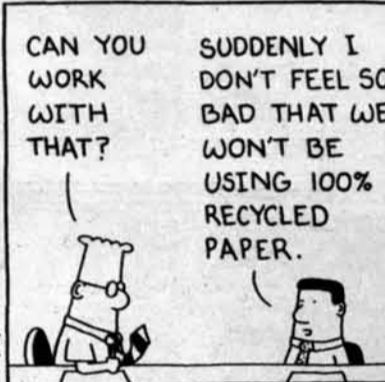
Travel

Surf & Sun Tours Cancun, Jamaica and Nassau \$399.00 all inclusive: air, trans, hotel (20 to choose from), 2 free meals daily, 3 hrs free drinks every night, VIP cover to all clubs. Call Toll free (888) 244 3733. Group discounts and greek specials. Ask how you can travel free.

Europe \$169 OW. Mexico/Caribbean \$189 RT & World Wide Destinations Cheap! If you can beat these prices start your own airline. Air-Tech Ltd. 212/219-7000. info@aerotech.com <http://campus.net/aerotech>

Europe \$175. Within USA \$79-\$129. Caribbean/Mexico \$199 r/t. Cheap fares worldwide! <http://www.airhitch.org>. Airhitch 1-800-326-2009.

Dilbert® by Scott Adams



1	2	3	4	5	6	7	8	9	10	11
12			13						14	
15		16				17		18		
	19			20		21				
22	23			24		25		26		27 28
29			30		31		32		33	
34		35		36		37		38		39
40	41		42		43		44		45	
46		47		48		49		50		
	51		52		53		54			
55	56			57		58			59	60
61			62		63			64		
65			66							67

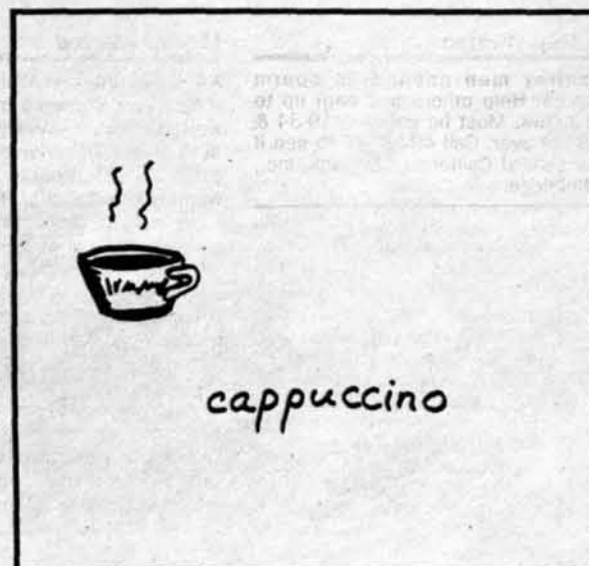
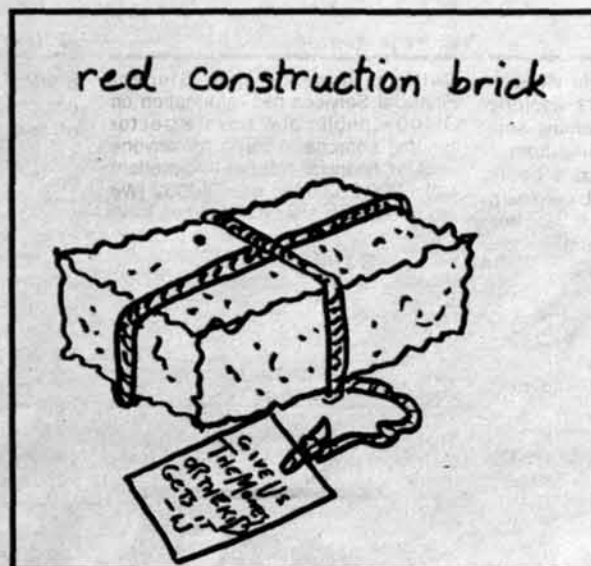
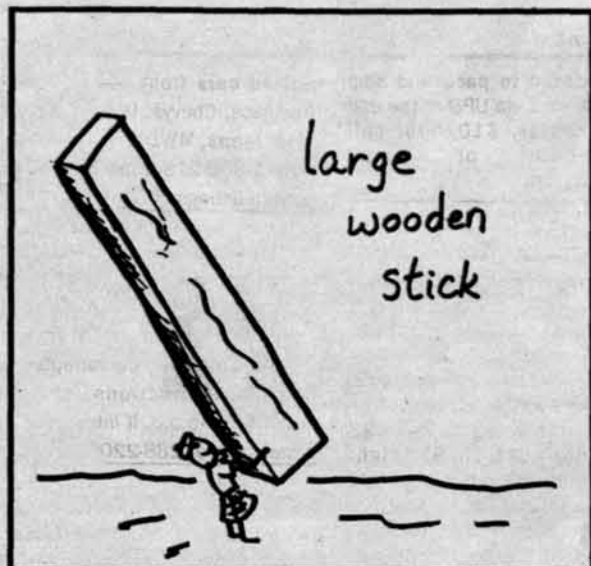
- ACROSS**
- Rechewed food
 - Brown tint
 - Received
 - Mimic
 - Startle
 - Direction (abbr.)
 - Illusion
 - Cereal grass seed
 - Sculptured likeness
 - Butterfly catcher
 - Bee's home
 - At this time
 - Smack
 - Regarding (Scot., Archaic)
 - Insect egg
 - 7th Greek letter
 - Rhenium symbol
 - Water barrier
 - Roman household god
 - Transitive (abbr.)
 - Mistake
 - Tactical Air Command (abbr.)
 - 2nd Greek letter (plural)
 - Disarrange
 - Tape lightly on shoulder
 - Tedious
 - Former title in Portugal
 - Run again
 - Painful experience
 - Instructional period
 - Presidential nickname
 - Used for sliding friction
 - Anger
 - Family
 - Sugary taste
 - Light-Horse Harry
 - Make tatting
 - Can lid
 - Angry
 - Puzzle
 - Has taken a bus
 - Dog
 - Lymphoid tissue
 - Fish egg
 - Slander (archaic)
 - Planet
 - Lease
 - Tree
 - Baseball statistic (abbr.)
 - Under
 - Mined mineral
 - Born
 - Direction (abbr.)
- DOWN**
- Wheel on rotating shaft
 - News service (abbr.)
 - Deduce
 - Story
 - Mournful poem
 - Mid-Atlantic state (abbr.)
 - Irritate
 - Prayer ending
 - Calm
 - Unit
 - Telegram (abbr.)
 - Change
 - Reserve (abbr.)
 - Evening (poetic)
 - Rabbits
 - Unable to move
 - Sesame plant
 - Flowers fragrant perfume
 - Break down

PUZZLE SOLUTIONS FROM LAST ISSUE

L	A	S	A	B	H	O	R	S	O	T
A	N	T	S	L	I	C	E	T	E	A
M	Y	O	P	I	A	T	A	V	E	R
L	E	A	S	E	M	A	R			
A	B	E	T	T	A	R	W	E	S	T
P	E	N	A	L	R	A	T	O	A	R
P	G	L	E	T	M	I	A	T	I	
L	I	E	D	A	M	C	L	A	I	M
E	N	V	P	A	N	T	I	N	S	
I	O	U	P	R	O	G	R	E	S	
M	I	N	U	T	E	B	U	R	L	A
A	R	C	E	A	S	E	S	E	Y	E
N	E	E	S	T	I	L	T	S	E	A

Noun Poetry

by Katy-Cat



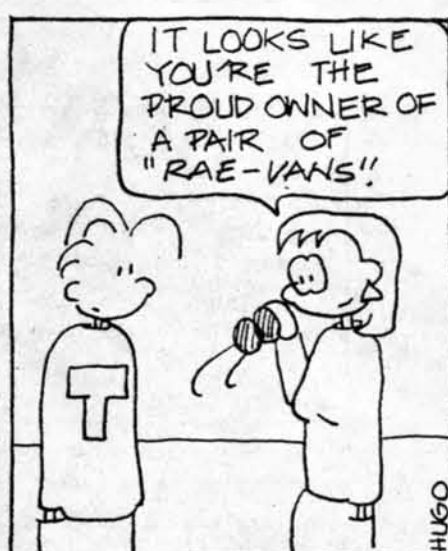
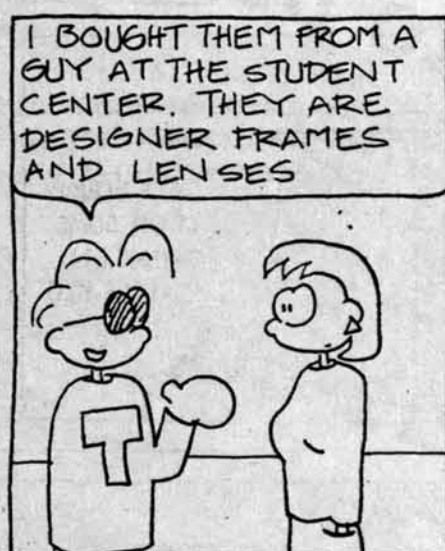
DAMNED FOR LIFE

by jessica



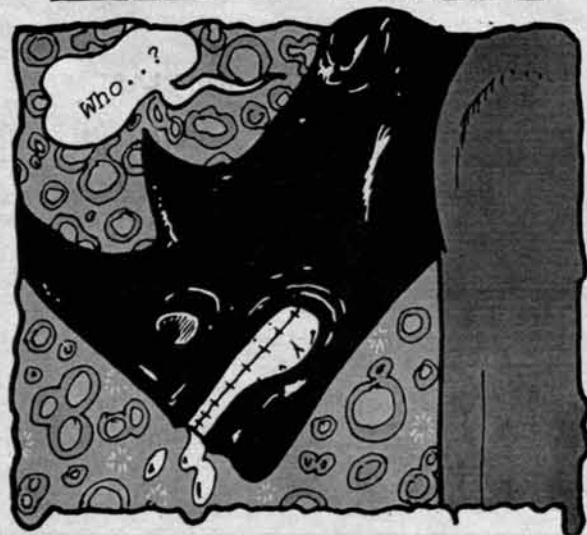
Off Course

by Hugo



RHINO MAN

by Zachary Emig



To be continued...

Student Center, Room 483

253-1541

It takes only 25 minutes to print The Tech.

But don't let that fool you. It takes all kinds of people to put together MIT's Oldest and Largest Newspaper. Whether you're interested in doing layout on state-of-the-art equipment, reviewing the latest movies and CDs, selling ads to national companies, or anything in between, we welcome you to join *The Tech*.

No experience necessary!



A crane lifts this carefully packaged crab apple tree out of its long-time home outside of Building E53 for a short trip to its new place in Killian Court. The tree's roots were pruned and wrapped in burlap in preparation for the move.



The trip to Killian Court met unexpected problems as the crab apple trees became caught in trees along Memorial Drive. A worker tries to free the crab apple tree. A crane eventually came, and the trees spent the rest of the trip horizontal.



The trees make their triumphant entry into Killian Court. The crane rights the trees and places them in their new homes outside of Building 10. There they will grace the sides of the stage during Commencement in June.



**PUT YOUR VALUABLES
IN A SAFE PLACE.**

Helmets make riding more comfortable and fun. Not to mention safer. In a crash without one, you are five times as likely to suffer a serious head injury than a helmeted rider. No matter how short your ride, wear a helmet. It's the best protection for your most valuable asset. **MOTORCYCLE SAFETY FOUNDATION**



This space donated by *The Tech*

1997 SCIENCE EXPO

The MIT Public Service Center extends its sincerest gratitude to all the MIT groups and individuals who helped out at the fifth annual MIT/Cambridge Science Expo, a celebration of science for Cambridge 7th and 8th graders, on April 30. With 180+ volunteers and ~180 Cambridge students, the Expo was a huge success!

MIT Student Volunteers:

Science Advisors - Volunteer Coordinators: Jasmine Chowdhury and David Yang

Susama Agarwala, Matt Alvarado, Jonas Arcelona, Pratip Banerji, Glenn Barry, Daniel Berger, Eric Bevan, Mike Bradley, Colin Brenan, Jamie Buller, Matthew Burnside, Angela Chen, Nora Chen, Wendy Cheng, Vicki Chin, Kumar Jay Das, David Day, Abe DeLao, Laura Depaoli, Roland Desrochers, Ian Duggan, Melissa Dullea, Evan Efstathiou, Louis Fito, Chris Gadda, Jean-Louis Gallani, Dave Geiger, Victoria Gong, Matthew Gray, Arup Guha, Charles Hamilton, Doug Heimbürger, Carrie Heitman, Ben Hellweg, John Hollywood, Christina Hsu, Mike Huber, Sohah Iqbal, Justin Kent, Kim Knowles, Sam Kopus, Dave Korka, Paulina Kuo, Nina Kutsuzawa, Ioannis (John) Kymissis, Emily Le, Amy Lee, Johnny Lee, Leo Ludwick, Jeremy Lueck, Mani Mahjouri, Craig Mak, Gina Marisol, Shishir Mehrotra, Mark Meier, Juliet Midgley, Robert Mitchell, Anuj Mohan, Shanahan Mondal, Jamie Morgan, Xiaomin Mou, Shuley Nakamura, Raysed Oshtory, Michelle Parks, Marco Perez, Brian Perrin, Jerrad Pierce, Jason Pinto, Joylette Portlock, Cyrus Pouraghabgher, Jamie Rackmill, Oscar Rodriguez, Joel Rosenberg, Millie Roy, Susan Rushing, Mike Salib, Mike Salib, Justin Sanchez, David Schiller, Amy Schwartz, Katie Shiels, Erik Snowberg, Soojin Son, Michael Spitznagel, Laughton Stanely, Emily Sung, Morris Tao, Emma Tevaarwerk, Carolina Tortora, Elaine Tso, Melissa Viray, Vinhthang Vota, Jenny Wang, Naveen Yalamanchi, Steven Yang, Michelle Youn

School Representatives - Volunteer Coordinator: Farhana Jan

Anna Benefiel, Mike Bonnet, Lenny Chiu, Ben Chun, Roopa Das, Sarah Dash, Monique DeJesus, Rick Debnath, Juan Carlos Deniz, Nick Hausman, Kristina Hernandez, Karen Horstmann, Lisa Hwang, Barbara Jordan, Zac Lee, Julie Lin, William Melendez Diaz, Penina Michlin, Ayr Muir-Harmony, Tam Nguyen, Valerie Pires, Isela Rodriguez, Christina Saltzman, Edward Semper, Leah Shieh, Luisa Torrielli, Norris Vivatrat, Steve Wong, Herb Yang, Tim Zue

Tour Representatives - Volunteer Coordinator: Doc Bowman

Victoria Chen, Cathy Coury, Shan Shan Huang, Risat Jannat, Jon Levene, Marissa Long, Patrick McCormick, Jason Miller, Disa Washington, Bob Yang

Logistics - Volunteer Coordinator: Tim McAnaney

Stephanie Aragon, Alan Au, Alice Chau, Enid Choi, Jasmine Chowdhury, Roopa Das, Matt Esch, Nat Grier, Jean-Louis Gallani, Carrie Heitman, Crystal Harris, Takeshi Irie, Darius Jazayeri, Laurie Leong, Cherry Liu, Liyen Lliang, Anne Mcleod, Carrie Metzger, Xiaomin Mou, Paul Njoroge, Owen Ozier, Brenton Phillips, Aditiya Prabhakar, Chris Rezek, Rich Sanford, Kevin Thompson, Sam Towell

T-Shirt Design - Chris Williams

Hands on Demonstration Volunteers:

Tim Shiao and Joshua Bittker for the Chemistry Magic Show; Tim Denison and the Inverted Pendulum demonstration; Adam Matuszeski and Thad Matuszeski with their Lighter Than Air Blimp; Michael R. Andrews and his Magnetic Levitation demonstration; Dave Otten and the MITEE Mouse demonstration from the Lab for Electromagnetic and Electronic Systems

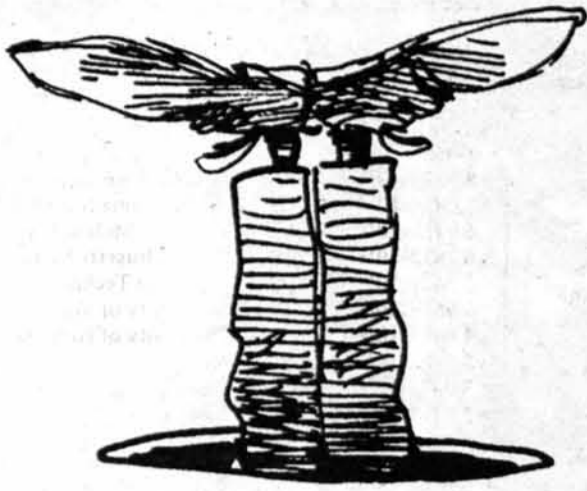
MIT Departments and Groups:

Dave Flett and the Campus Activities Complex; the Safety Office; Will Neveitt and the Artificial Intelligence Lab; Gisele Proulx, Julie Ann Villa, Cindy Dernay Tervalon and the Edgerton Center; Eric Werwa, Professor Kirk Kolenbrander and the Department of Materials Science and Engineering; Paul Rivenberg and the Plasma Fusion Center; Dick Perdichizzi, Gerry Lancia, Helen Halaris and the Wind Tunnel/Space Grant tour.

We appreciate all of your assistance and apologize for any names we missed!

Michael Bryzek
Michael Bryzek '99
Science Expo Coordinators

Shonna Yin
Shonna Yin '97



**We hope you don't
fall in any holes
this summer, but
just in case. . .**

If you're graduating or leaving MIT:

your 96/97 MIT student hospital insurance lasts thru 8/31/97*

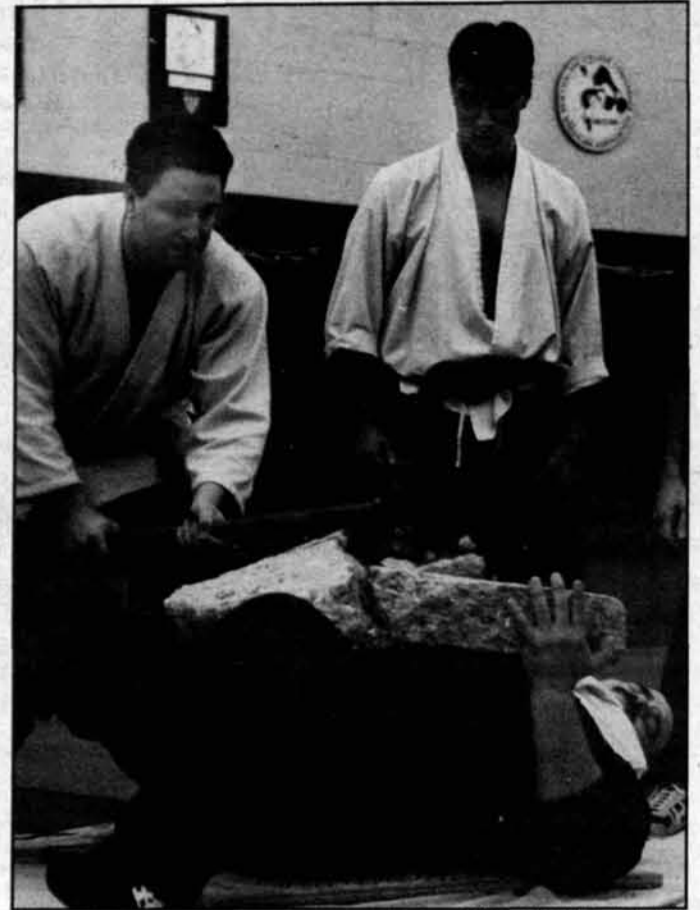
If you're returning to MIT in the fall:

your 96/97 MIT student hospital insurance lasts thru 8/31/97*

*except for special programs

questions?
call 617-253-4371

mit medical



CHUN HUA ZHENG—THE TECH

Joseph Puleio, founder of American jujitsu, demonstrates his physical and mental powers at a seminar on methods of achieving success in life entitled "Power of the Mind," held last Saturday in DuPont Gymnasium.

**Just a fraction of our time watching movies
could help bring many happy endings.**

It's so easy to help your community, when you think about it.

Millions of people have helped make five percent of their incomes and

five hours of volunteer time per week the standard of giving in America.

Get involved with the causes you care about and give five.



This space donated by The Tech

COME TO THE \$50K FINAL AWARDS

Join us as we award \$50,000 in prize money to the hottest new ventures being started by MIT students!

Kevin Kinsella, CEO of Sequana Therapeutics, will deliver the keynote address.

WHEN: Wednesday, May 14,
6:00 PM

WHERE: Kresge Auditorium

Information about the Competition, including a list of semifinalists, is available at our web site.



<http://web.mit.edu/50k/www/>

SIPB Considers Putting Contest Software on Athena

Encryption, from Page 1

of Illinois at Urbana-Champaign, Oregon State University, Pennsylvania State University, and Carnegie-Mellon University. MIT peaked at third place last week.

At the current rate at which keys are being checked, it is estimated that the code will be broken in approximately 27 weeks. However, because the number of machines participating has been growing rapidly — doubling every eight to 11 days — the key may be found much sooner.

Athena resources may be used

James M. Kretchmar '99, chair-

man of the Student Information Processing Board, said that SIPB was "thinking about installing a client" to allow students to run the client while they were logged in if they wished.

"We can't automatically run the client on workstations," he said. "We're not IS." In addition, "[users] should get full resources" of the Athena workstation they are using while running a DES challenge client.

Kretchmar said that SIPB had not resolved which effort to join. Verser's effort is only one of several plans to break the key. SIPB is looking at an effort based on an algorithm developed at MIT, Kretchmar

said.

Since finding the key will result in a monetary gain, questions arise as to whether participating in this contest violates Athena rules of use. "The Internet is available for student use," said Karen Hersey, intellectual property counsel for IS. However, students are "not supposed to be conducting commerce" using the Internet.

It is "probably questionable" whether the effort would be considered a commercial effort since it has "educational value," Hersey said. But if the effort became a nuisance by overloading resources, IS might step in to stem its growth, she said.

DES Challenge Statistics

No. of Keys Tested	No. of Computers	University
1.6857x10 ¹³	337	University of Illinois at Urbana-Champaign
8.3223x10 ¹²	341	Oregon State University
7.0834x10 ¹²	318	Pennsylvania State University
6.9739x10 ¹²	247	Carnegie-Mellon University
6.7832x10¹²	226	Massachusetts Institute of Technology
5.5431x10 ¹²	196	Michigan Technological University
4.9619x10 ¹²	275	University of Wisconsin
4.6815x10 ¹²	184	University of Notre Dame
3.3286x10 ¹²	111	Rensselaer Polytechnic Institute
3.0985x10 ¹²	131	Northwestern University
2.8877x10 ¹²	82	University of Arkansas-Fayetteville

[HTTP://WWW.FRIL.COM/~RCV/DESRANK.HTM](http://www.fril.com/rcv/desrank.htm)



LET US HELP YOU FIND A JOB.

Check out
The Resume Bucket
at www.collegefest.com

Graduating and looking for a job in the best job market in years? Don't spin your wheels checking out stale listings. Check out our new jobsite, THE RESUME BUCKET, which puts you in the driver's seat. No database of listings to search through, just companies actively looking for good candidates like you.

Go to the site and register to win Tower Records gift certificates, and other prizes. And upload your resume while you're at it. Let College Fest be your electronic headhunter. For more information, call (617) 859-5767.

Truman Scholarships Informational Meeting

Thursday, May 8, 1997
4:00 p.m. E51-275

Are you considering a career in government, education, or other public service sector? Find out how you can apply for a **\$30,000** scholarship during the fall of your junior year. Scholarships are awarded to **juniors** for use during senior year and graduate school.

Jacobo Orenstein-Cardona, Class of '97 and this year's Truman Scholar, will be available to share his recent experience with you.

If you are a U.S. citizen and in the top half of your class, you may be eligible to apply.

For more information, please contact the History Office at 253-4965, or visit the Truman Scholarship Foundation web site at <http://www.truman.gov/>.



Something to feel good about.

United Way

This space donated by The Tech

This spring, join **Tour de Cure**—one of the biggest **diabetes** fundraising events in history.

a cycling event of **American Diabetes Association**

Tour de Cure

Sign up today, call **1-800-TOUR-888** (1-800-858-7888) or visit us at www.diabetes.org/tour

This space donated by *The Tech*

Faculty Join Ranks of National Academy

Awards, from Page 1

"The ultimate goal is to learn what makes a cell grow and keep on growing," Weinberg said.

As a National Medal of Science winner, Weinberg will have a chance to meet President Clinton this summer. "This is an enormous thrill to meet the president of the United States," he said.

Weinberg to continue research

Despite winning the award, Weinberg is set to continue his work. "It's fun. Research can be very interesting. You get to work

with bright people; it's an interesting challenge. I was fortunate to work at a time when biology was going through a revolution and I was very lucky," he said.

Three elected to science academy

Last week also saw the election of the newest members of the National Academy of Science.

Professor of Biology Eric S. Lander, Professor of Biology Peter S. Kim, and Professor of Chemistry Sylvia T. Ceyer were among this year's newly elected members. They join 97 other MIT faculty members in the academy.

Birgeneau said he wasn't too surprised that MIT had more NAS members elected this year, but "what's unusual about these three is that they are extremely young, with an average age of about 40."

"The Academy is usually a final stage in a person's career, an honor that is given when you're quite senior," Birgeneau said.

Birgeneau also noted another special feature about this threesome. They "are outstanding researchers, but each is also an outstanding classroom teacher." Lander has won the Baker Award for Teaching in the past, and Ceyer has won the School of Science teaching prize.

Economist moves to genetics

Lander was informed of his election when he got a phone call last Tuesday from David Botstein, the chair of the genetics department of the NAS. "It was special hearing it from him. He and I used to work together, and he was the one who got me interested in genetics," Lander said.

"I was delighted. It is a tremendous honor from one's colleagues, especially considering that I switched fields," Lander said, referring to the fact that he originally got his doctorate in mathematics, then taught economics at Harvard Business School before eventually

turning to molecular genetics and becoming a Whitehead Institute for Biomedical Sciences fellow in 1986.

"I am very grateful to the MIT community. They appointed me to Whitehead before I had even published a paper," Lander said.

Lander became a member of the faculty in 1989 and since 1990, has acted as director of the Human Genome Project, an international collaborative research effort that aims to have the human genome mapped out in five to seven more years.

"My driving force is the extraordinary excitement of reading and understanding the genetic code that has driven life for billions of years. It's like an ancient and sacred text, and you're the first generation to read it. It's a reason to get up each day," Lander said.

Kim sees educational role

Kim has been working on two major areas of study: three-dimensional protein folding and viruses. His most recent work includes discovering a structure on the surface of HIV that could be significant in designing AIDS drugs. He has also worked with the influenza virus and a virus that caused leukemia in mice.

When Kim was notified by the NAS, "I was very pleasantly surprised. It's a great honor and I'm thrilled to be elected to be a member."

"The National Academy of Science does from time to time make recommendations to government officials as a body of scientists, to act as advisers," Kim said. "There's always new responsibilities, but it's very important to do. You need to continue educating the public of science and technology and its benefits. The role of organizations such as this is an important one that we need to take seriously."

Pleased as he is with being elected to the NAS, "I think we need to get back to work now. People who are in the sciences aren't focused on prizes but on the joy of learning new things," Kim said.

Ceyer examines surface chemistry

Ceyer, the third new NAS member, has been at MIT for roughly the past 15 years and "has done very elegant research of chemistry which occurs at surfaces. She combines deep understanding of chemistry with the superb technical skills of doing high vacuum surface experiments," Birgeneau said. Ceyer herself was out of town and could not be reached for comment.

Create a Worldwide Electronic Community

The MIT Alumni Association seeks a full-time webmaster who wants to develop and sustain a new set of services which make it easy for alumni to stay in touch with friends, colleagues and the Institute.

E-mail Forwarding for Life is up and running and an on-line directory is in the pilot stage. Distance learning, library access and community forums are just a few of the ideas being discussed. Over 3,500 alumni have registered for the service in its first three months of operation!

Check out our site: <http://web.mit.edu/alum/ans>

The Official Description

Webmaster, Alumni Network Services

Develop and implement internet publishing solutions. Manage customersupport related to the Association web site and other network services;edit HTML documents and upload pages to the site; integrate multimediaassets and database applications. Total quality management of the siteincludes the evaluation of user interfaces, design clarity, servermaintenance and staff support. Maintain cross-platform and cross-browsercompatibility so that the web site is accessible from a variety ofdifferent environments. Provide ongoing training and consulting to AlumniAssociation staff and volunteers.

Qualifications:

Bachelor's degree required; MIT degree strongly preferred. Excellent communications skills a necessity. Must have strong working knowledge of HTML and CGI scripting. Familiarity with C, C++, and Javascript an advantage. Requires work in MAC, PC and UNIX environments. Ability to manage and analyze the web site from a client as well as a server perspective. Experience designing, programming or managing web content required.

To apply, send your resume and cover letter to:

Bill Cain
Personnel Officer
400 Main Street
Building E19-230
Cambridge, MA 02139

Maggy Bruzelius
Director, Alumni Network Services
201 Vassar Street, Building W59-224
Cambridge, MA 02139-4307
maggyb@mit.edu
fax 617-258-8778



MIT is an Equal Opportunity Employer and offers excellent benefits and competitive salaries.

DON'T LEAVE MIT WITHOUT

THE RIGHT STUFF

An Introduction Network

THE DATING NETWORK FOR GRADUATES AND FACULTY OF

~MIT~

THE IVIES, SEVEN SISTERS, STANFORD, DUKE UNIVERSITY OF CHICAGO, CALTECH, UC BERKELEY

special rates for recent grads (inexpensive, very inexpensive!!)

OVER 2500 MEMBERS for web and non-web singles 800-988-5288

www.rightstuffdating.com (after May 7)

STUDENT TRAVEL



STA Travel is the world's largest travel organization specializing in low-cost travel for students.

PSST! Got the urge to travel? STA Travel has great student airfares to destinations around the world. Go shopping on our website for current student airfares.

(617) 576-4623
65 Mt. Auburn Street
Cambridge, MA 02138
www.sta-travel.com



- International Student Identity Cards
- Around the World
- Student Airfares
- Domestic Discounts
- Eurail Passes
- Hostel Membership
- Spring Break
- Travel Insurance
- Packages for 18-34 yrs.
- Budget Hotels

INNOCENT ANIMALS ARE ROUTINELY KILLED AND MUTILATED IN SCIENTIFIC EXPERIMENTS CONDUCTED AT COLLEGES AND UNIVERSITIES. TRAGIC, WHEN YOU CONSIDER THAT THE ANSWERS TO HUMAN HEALTH PROBLEMS CAN BE FOUND WITHOUT HARMING A LIVING BEING. CONTACT THE NEW ENGLAND ANTI-VIVISECTION



SOCIETY TO FIND OUT WHAT YOU CAN DO TO STOP THE NEEDLESS SUFFERING. CALL (617) 523-6020. OR VISIT WWW.NEAVS.ORG

Shuttle Reservations Accessible Via Web

Shuttle, from Page 1

hour and a half," she said. "We couldn't have it stop in Boston and make the trip in an hour and a half." A stop in Boston might be considered in the future.

"If the shuttle runs well, I'll be the champion of the shuttle for terms to come," Carter said, "but I have to convince 30 other council members" that it is a worthwhile endeavor.

Shuttle uses online registration

Last fall, technical issues hurt the project somewhat. The previous World Wide Web-based system had difficulty dealing with confirming reservations on buses. As a consequence, some students asked for a space and never got confirmation.

"The major job was in registering people and confirming them," Carter said. "There was one person handling about 300 e-mails."

"Not that many [problems] came

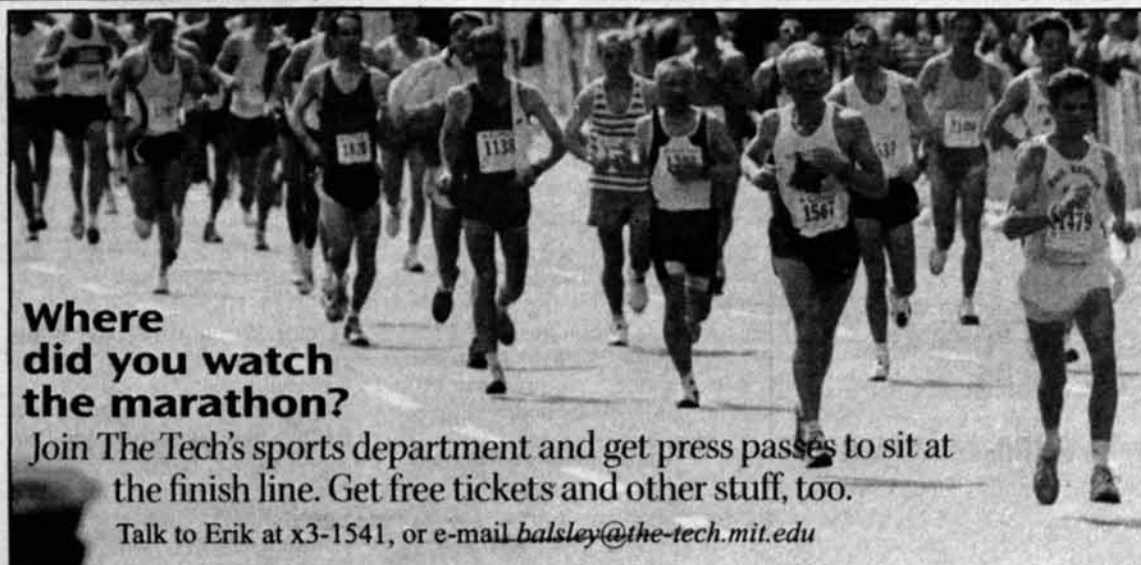
up" in creating this year's Web site at <http://bho.mit.edu/ua/shuttle/>, said Benjamin Ho '00. The system in use this year is also completely automated, so there should be few problems.

At the moment, the page is running off of Ho's personal machine. "I guess the UA doesn't have a computer yet, and you can't run these programs off of Athena due to security" concerns, Ho said.

In order to register, students need to leave some basic information on the server. "All you really need [to enter] is a name, an e-mail address, a day, and time," Ho said.

In addition, students will be asked to enter a password, which will allow them to withdraw their registration for a particular space if they change their mind, Ho said.

Students will also be able to see who is signed up for each bus and see what buses are full. "If you want to coordinate with somebody else, you can see where that person signed up," Ho said.



Where did you watch the marathon?

Join The Tech's sports department and get press passes to sit at the finish line. Get free tickets and other stuff, too.

Talk to Erik at x3-1541, or e-mail balsley@the-tech.mit.edu



THOMAS R. KARLO—THE TECH

Soprano Andrea Ehrenreich performs in Kresge Auditorium last Friday night along with the MIT Concert Choir and Symphony Orchestra.

The Sloan Subject Prioritization System Bidding Dates for Fall Term Classes

accessible through WebSIS <<http://student.mit.edu>>

Round I (Sloan only)

Opens 9:00 a.m., Monday, May 5

Closes 5:00 p.m., Sunday, May 11

Round II (Sloan and non-Sloan)

Opens 12:00 noon, Tuesday, May 13

(Round I results posted on May 13)

Closes 5:00 p.m., Sunday, May 18

Round II results will be posted on the web in late August

SID

SOCIETY FOR INFORMATION DISPLAY

Explore the Last 18 Inches on the Information Highway

Society for Information Display
1997 International Symposium, Seminar, and Exhibition
Hynes Convention Center, Boston
May 11 - 16, 1997

Exhibits May 13 - 15
Show Admission: \$10.00

Tues 9 am-7:30 pm, Wed 9 am-5 pm, Thurs 9 am-2 pm

The latest in Display Technology, Manufacturing, Integration, and Applications, including Liquid Crystal Displays, Plasma Display Panels, Miniature Displays, Projection Displays, LCD monitors, 3-D Head Mounted Displays, and Hang-on-the-Wall TV receivers.

And a special **free** exhibit celebrating the 100th anniversary of the CRT, including a 1906 reproduction of Braun's 1897 tube from the Harvard Historical Collection, an early GenRad oscillograph, the first commercial RCA color TV, a CBS color-wheel TV, a new FED, and many old and unusual CRTs and applications.

For information about the professional technical sessions and seminars, call Mark Goldfarb at (703) 413-3891 or fax him at (703) 413-1315.

TEK Microsystems, Incorporated
One North Avenue
Burlington, MA 01803

617.270.0808
Fax 617.270.0813

TEK Microsystems

TEK Microsystems was founded in 1981 to develop custom hardware and software systems for clients. Some startups had a whole garage, but we only had a dorm room (Goodale 105, 1st East, East Campus). Since then, we've done a lot of different things, from IBM PC software to sonar data acquisition to fiber-optic links to industrial I/O products. Everything we've done requires a commitment to

developing innovative, reliable solutions using leading-edge technology.

In 1995, we expanded our business to include off-the-shelf products based on technology developed for other customers. In 1996, we moved from 100% custom projects to a mix of 85% custom, 15% products — and we're on track for 25% products in 1997 with a new product release every month.

ELECTRONIC DESIGN ENGINEERS

We're looking for hardware engineers for both custom development projects and product development. Our mix of business allows people to move between different projects, providing extraordinary opportunities for gaining broad experience and career growth.

Hardware projects include single-card modules for fiber optic interfaces, serial I/O, analog I/O, and DSP, along with more

complex intelligent interface cards for data acquisition, recording, and signal processing. Think of us as 6.111 for fun and profit.

Check out our web page at www.tekmicro.com, and if TEK sounds like what you're looking for, send your resume to jobs@tekmicro.com for immediate consideration. Summer positions also available.

SPORTS



KALPANA MANI

The MIT women's hockey team at the National Club Championships held at Ohio State University.

Women's Ice Hockey Reaches Semifinals In National Tourney

By Kalpana Mani
TEAM MEMBER

The women's hockey team competed in the National Club Championships held at Ohio State University from April 18 to 20. The Engineers played excellently and made it to the semifinals, beating the University of Michigan and an Ohio State team.

The teams competing were MIT, OSU-A, OSU-B, Michigan, Saint Cloud College, and North Country Community College. NCCC went on to win the title.

The Engineers began the tournament with a 10-0 shutout against OSU-B. Esther Jesurum G led MIT in scoring with a hat trick. Raquel Romano G and Tory Herman G both had playmakers. The Engineers began to dominate the game early on when Abigail Vargus '97 scored with 12:46 in the first period.

They kept up the pace in the first and second periods, scoring four goals in each one. During the regular season, the Engineers have had difficulty capitalizing on power plays, but this game, two of their first period goals were scored while in a power play.

This initial game served to bolster the team's confidence as they approached their second game, this time with OSU-A, the better of the Ohio State teams.

The OSU-A game ended in a hard-fought 5-2 defeat for the Engineers. The OSU-A team played a fast and rough game, and the shots on goal were weighted in their favor.

However, the Engineers began fighting back from an 0-2 deficit after a rocky first period. Jill Depto '97 scored the first goal of the second period on an assist from Cynara Wu G.

The Engineers gave up two more goals before Kalpana Mani '99, assisted by Christina Gerhke '99, skated up the ice and scored MIT's second and final goal of the game. This defeat made it necessary for the Engineers to win a game against Michigan in order to make it to the semifinals.

Engineers top Wolverines

The Michigan game was by far the most exciting game of the tournament for the Engineers, with the final score 4-2 in MIT's favor. MIT took the lead late in the first period on a power-play goal by Lisa Stifelman G, assisted by Depto and Allison Mackay G.

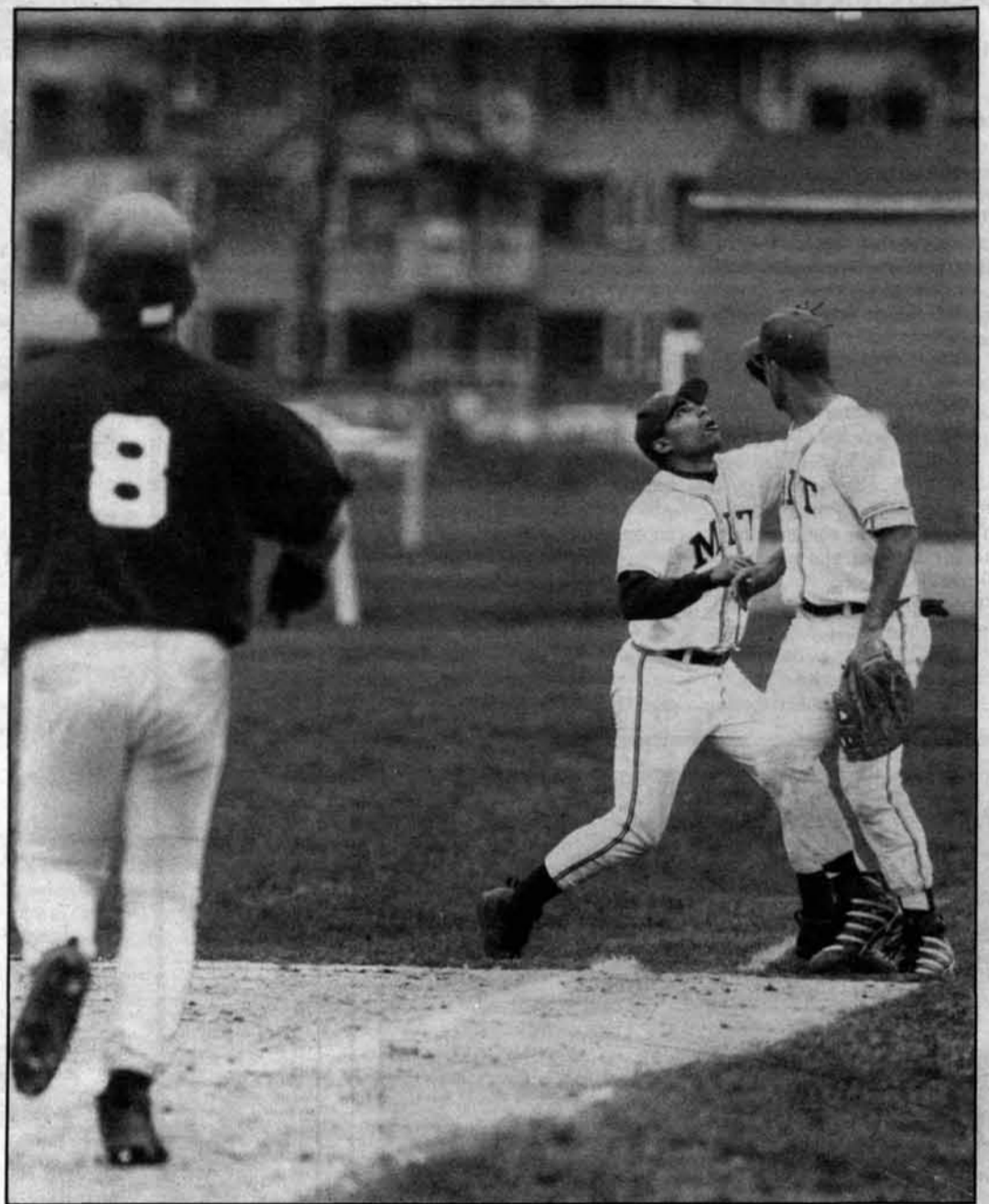
Michigan went on to score two goals in less than five minutes to take a 2-1 lead. But 30 seconds after Michigan's last goal, Jesurum, assisted by Romano, scored to tie it up. The second period and most of the third did not relieve the tension at all — there was no scoring on either side.

There was talk of overtime, and an already very physical game got more intense. Finally, Wu, on a pass from Stifelman, skated up the left side, beat the defense and shot. The goalie was distracted by Mani in the crease and the shot flew in short side.

Stifelman nailed the game shut with a power-play goal with four seconds to go, and the Engineers made it to the semifinals.

The last game of the tournament for the Engineers was tough. The team had already played three games in two days and faced OSU-A again. A tired MIT team lost to OSU-A 5-0.

However, far from being disheartened, the Engineers had fun and enjoyed playing with each other in their last game. It was an exciting conclusion to a great season.



JIRI SCHINDLER—THE TECH

Despite a solid performance by the infield, like this catch by second baseman Nikhil Batra '98, backed up by first baseman Joel Morales '99, MIT lost 1-0 to the Suffolk University Rams in the first game of Saturday's doubleheader at Briggs Field. MIT lost the second game 5-1.



JIRI SCHINDLER—THE TECH

Jeff Holly G passes the ball from the scrum in the MIT rugby team's 20-0 victory over Boston Gentlemen rugby club on Saturday.