

## UA Election Results Delayed by Appeals

By Frank Dabek  
NEWS EDITOR

The results of this year's Undergraduate Association elections have been tabulated but will not be released until next week while the UA judicial review board settles appeals stemming from the election. The delay results, in part, from an appeal of a ruling made by the election board on the actions of Paul T. Oppold '99 in his campaign for UA president.

As reported in the March 10 issue of *The Tech*, Oppold's campaign faced criticism for running mates without obtaining new signatures for his petition, for sending mass e-mails, and for campaigning while obtaining signatures. Seth M. Bisen-Hersh '01, the UA election commissioner, ruled that the first two actions were legal and put Oppold on probation for the third.

Bisen-Hersh said that the results of the election were tabulated by Wednesday evening. A resolution passed at the UA meeting on Monday night, however, prevents those results from being released while the judicial board, whose members were also appointed on Monday, hears appeals in the case.

Ashwin Viswanathan '98, the chair of that board, said that the group would meet Thursday and over the weekend to review applicable UA by-laws and to "review the formal complaint." He said that the

board will reach a decision "probably by Monday." The resolution states that the appeals process may not delay the results beyond March 22.

The "judicial review board comments on the constitutionality of decisions" made during the course of the election, Viswanathan said. The board may make a recommendation as to what actions are appropriate following its decision, but it will not have the final word on what, if any, actions are taken.

Current UA President Dedric A. Carter '98 said that "it would be up to the executive committee to" adopt a course of action following the decision of the review board. Outcomes of that decision range "from the possibility of having a new election to going with the election as it is."

**Delay to preserve election process**

Carter said that while the UA is

Elections, Page 14



Banquo (Sarah Cohen '00) bids farewell to the newly crowned King Macbeth (Fernando Palz '98) and his wife (Jenny James Matta '98) before leaving on a fatal ride.

## Biomaterials Focus of Langer's Killian Talk

By Venkatesh Satish  
CONTRIBUTING EDITOR

Killian Award recipient Robert S. Langer ScD '74, the Germehausen Professor of Chemical and Biomedical Engineering, delivered the annual Killian Award Lecture on the topic

of "Biomaterials and How They Will Change our Lives."

Now in its 26th year, the Killian award is presented to a faculty member for outstanding professional accomplishments. It commemorates former Institute President and Chair of the Corporation James R. Killian, Jr. '26.

The committee that selected Langer said that he was recognized because of his contributions to the fields of drug delivery, artificial organs, and angiogenesis.

The committee described him as "an outstanding scientist with daring, boundless energy, and prophetic vision; an excellent teacher; and a superb human being."

In a brief introduction preceding the lecture, Chair of the Faculty Lotte Bailyn noted that Langer's work may supplant the need for

implants. Langer followed with a presentation summarizing the innovations in the field of material science that relate to medical and biological applications.

**Lecturer discusses advances**

One major innovation Langer addressed is the design of polymer materials to precisely control diffusive properties. By altering their pore structures, materials can be used to regulate the delivery profile of drugs, Langer said.

Instead of giving patients bursts of drugs, clinicians may now provide steady doses over longer periods of time, Langer said. This option reduces the chance that patients will suffer serious side effects.

When Langer first presented his findings at a talk in the 1970s, "all the polymer scientists and engineers

said 'We don't believe a word you said.'" As those scientists later repeated his work, Langer said he was able to convince them that he was right.

"One of the things I've watched is that the materials used in medicine... are off-the-shelf products" grabbed by clinicians for specific applications, Langer said.

For example, the material used to make the artificial heart was originally used in ladies' girdles, Langer said. Dialysis tubes were made with material initially used for sausage casing. Langer said that while those products worked well, he felt that the application of scientific knowledge would yield significant improvements.

Langer invented a way to extend the lives of brain cancer

Langer, Page 11

## Student Volunteers Journey to China To Wire Schools for Internet Access

By Sharmin Ghaznavi  
STAFF REPORTER

Twenty-five MIT undergraduates will travel to China this summer as part of the MIT-China Educational Technology Initiative (MIT-CETI) program. Interns will go to ten high schools in four cities: Beijing, Shanghai, Xian, and Hangzhou. Over the course of six weeks, these students will set up interactive educational web sites and help five of the high schools connect to the Internet.

This connection to the Internet will allow high schools to tap into the educational possibilities provided by the Internet and increase communication with students in other countries. Among the projects the

interns have in mind are an International Scavenger Hunt and a Virtual Classroom.

The International Scavenger Hunt will involve communication between the high schools in China and high schools in Canada, England, and Brazil. To obtain clues in the scavenger hunt, students will be required to contact students in the other three countries.

The Virtual Classroom will be a text-based web site where students will be able to carry on classroom discussions, do homework, and obtain information concerning college entrance examinations.

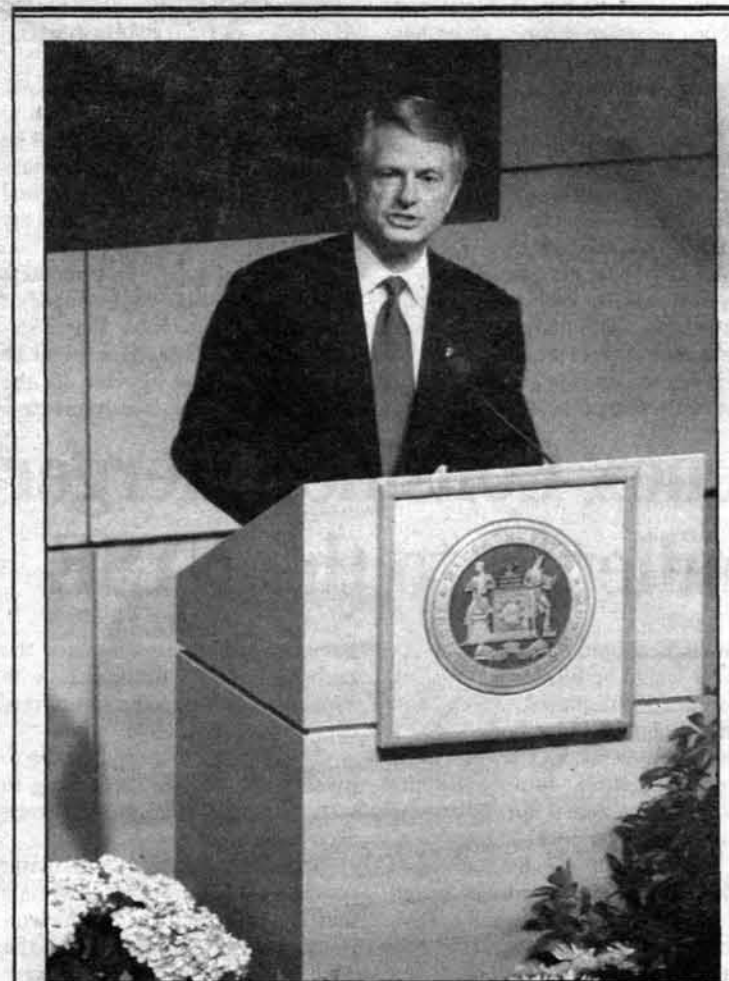
Other plans include establishing Internet pen pals with high school students in Pennsylvania, an inter-

China high school network, and conferences on the educational uses of the Internet.

**Technology Binds Students**

MIT-CETI, now in its second year, was started by Jacob J. Seid G and Ronald Cao MEng '97 to build cross-cultural understanding between younger generation Chinese and American students through the development of computer-related educational projects. "We believe this program provides a bridge between Chinese and American students and allows them to learn about each other," Seid said.

China, Page 15



Georgia Governor Zell Miller speaks about improving education at the National Innovation Summit in the Tang Center yesterday evening. Vice President Al Gore will speak at the Summit tomorrow.

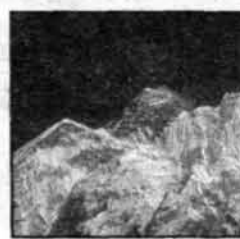
Speakers at the Project HEALTH conference urged students to "change the world" and improve the quality of life of those in need.

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IMAX goes to Everest and gives us a story... for once.

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# WORLD & NATION

## China's Foreign Minister Announces He'll Resign

LOS ANGELES TIMES

BEIJING

Foreign minister Qian Qichen, one of the architects of China's gradual re-engagement with the United States following the 1989 incident in Tiananmen Square, announced Thursday that he plans to resign.

"My age does not allow me to continue this job," said Qian, who will be 70 years old in November. "So I plan to resign." It is unclear whether Qian would retain his other title as vice-premier of the State Council, China's Cabinet, when a new government is formed here next week. Last September he was re-elected to the powerful Politburo of the Chinese Communist Party, a position that will continue to give him clout in the power structure for the next five years.

The top candidate for the job is Tang Jiaxuan, 60, a Japan specialist who has served as vice-minister of foreign affairs since 1993. Another possible choice is Liu Huaqiu, 59, whose current position is director of the office of foreign affairs at the State Council.

Despite his resignation, diplomats here said Qian will continue to play an active role in foreign policy.

## Blair Says Parties Close to Accord

THE WASHINGTON POST

LONDON

British Prime Minister Tony Blair said Thursday the Northern Ireland peace talks were "agonizingly close" to a framework agreement following a meeting with Sinn Fein leader Gerry Adams at which Blair urged the ally of the Irish Republican Army to return to the bargaining table.

Adams, whose party was suspended from the talks two weeks ago for two Belfast killings deemed to be handiwork of the IRA, said, "Sinn Fein is deeply committed to negotiations as a means of resolving conflict. ... We will face up to our responsibilities."

Adams and the other Sinn Fein leaders did not say, however, when they would re-enter the talks. "We should seek to go back to the talks at the earliest possible opportunity," Adams said. The talks are scheduled to resume in Belfast on March 23.

"I hope Sinn Fein (will) come back to the process. We are agonizingly close to agreeing certainly the framework — the outline — of a settlement," Blair told Independent Television News.

In order to place a referendum before the people of both Ireland and Northern Ireland on the chosen date of May 22, negotiators must forge a solution by late April.

"There is no doubt we are closer than we ever have been before," said Britain's Secretary of State for Northern Ireland Marjorie Mowlam. "The ballpark we're in — I think most people could draw the parameters."

## Bighorn Sheep Will Be Declared an Endangered Species

LOS ANGELES TIMES

LOS ANGELES

Bighorn sheep that inhabit Southern California's desert mountains and foothills, including prime real estate in the Palm Springs area, will be declared an endangered species early next week, the U.S. Fish and Wildlife Service announced Thursday.

The decision culminates more than a decade of research that points toward a swift and steep decline of the reclusive mammals, which have been dying off because of a combination of factors, particularly development of their habitat, disease and predation by mountain lions.

An estimated 280 Peninsular bighorn sheep existed in the wild last year, down from about 1,200 in 1971 and about 600 in 1991, according to annual counts by state wildlife officials.

"This may be the only large mammal that has been listed in Southern California," said Pete Sorensen, the U.S. Fish and Wildlife Service's division chief for the California desert.

The decision to invoke the Endangered Species Act to protect the desert sheep, which live only in Riverside, San Diego and Imperial counties, could change the pace of development around Palm Desert and Rancho Mirage.

## WEATHER

### The Retrograde March

By Marek Zebrowski  
STAFF METEOROLOGIST

A bitterly cold airmass will be displaced during Friday by some warm advection, developing in advance of a clipper-type storm approaching from the Great Lakes region. After this storm passes to the north of our area by late Saturday, a cold front will usher yet another chilly high pressure system. This cold weather will park itself over the Northeast for the next few days, moderating only gradually by early next week. In the meantime, the calendar may say it's March, but the thermometer will suggest "January."

**Today:** Sunny start with clouds slowly increasing from the west during the afternoon. Temperatures will gradually rise towards 37°F (3°C), but moderate westerly winds will make it feel quite brisk.

**Tonight:** Partly to mostly cloudy, and not quite so cold. Low around 28°F (-2) with winds turning to southwest. Some light snow may develop overnight in the Berkshires.

**Saturday:** Cloudy with a chance of light snow changing to light rain during the afternoon. High near 40°F (4°C), with a quick flurry late at night as the temperatures drop again.

**Sunday outlook:** Fair and cold. Highs in the mid 30s (2°C), and lows in the low 20s (-4 to -6°C).

# Cancer Cases Decline Over 5-Year Period In All Groups

By David Brown  
THE WASHINGTON POST

WASHINGTON

The incidence of cancer among Americans is declining for the first time since the 1930s, a team of epidemiologists announced Thursday.

From 1990 to 1995, the annual number of new cases of cancer for every 100,000 Americans fell steadily. The overall trend was seen in both sexes, most ethnic groups and most age groups, the team reported.

The report comes slightly more than a year after the announcement that mortality from cancer — the nation's second-leading cause of death — had declined for the first time in two decades. The drop in incidence is probably more significant because it signals an ebbing of the disease itself, rather than simply an improvement in treatment of it.

"This study brings an exciting message of hope," said James S.

Marks, director of the chronic disease program at the federal Centers for Disease Control and Prevention. "The chances of getting cancer are declining... and the chances of dying of cancer are declining even faster."

Reasons for the fall in incidence include healthier lifestyles and, to a much lesser extent, more aggressive treatment of precancerous conditions. The fall in death rates — which researchers said continues — is attributable to earlier detection of the disease, and better therapies for many types of it even in relatively advanced stages.

Speaking at a news conference where the data were presented, Richard D. Klausner, director of the National Cancer Institute, said that in 1995 there were about 30,000 fewer cancer deaths, and 70,000 fewer new cases of cancer diagnosed, than had been predicted 20 years earlier. He noted that many of

the factors responsible for this — better consumer education, new screening tests, optimal clinical care — are currently underused.

"We haven't come close to seeing the benefits (of current optimal medical practice)," he said.

The annual incidence of all forms of cancer rose an average of 1.2 percent a year from 1973 to 1990. It fell an average of 0.7 percent a year from 1990 to 1995.

Cancer death rates rose an average of 0.4 percent a year from 1973 to 1990, but declined an average of 0.5 percent a year in the first half of this decade. Mortality from lung, breast and prostate cancer were rising during the earlier period, and fell significantly during the more recent one, the researchers reported.

The incidence data are from the National Cancer Institute's Surveillance, Epidemiology and End Results (SEER) survey.

# Astronomers Discover Galaxy Believed To Be Most Distant

By Kathy Sawyer  
THE WASHINGTON POST

Astronomers have detected the most distant known object in all creation, a young galaxy that existed when the universe was only 6 percent of its present age.

The discovery, announced Thursday, stretches the reach of human perception 90 million light-years farther than it had extended before, to the mysterious period less than a billion years after time and space began in the Big Bang explosion, scientists said.

The finding offers tantalizing encouragement that the emerging generation of large, ground-based telescopes will unveil the elusive primeval galaxies of that epoch, when the first generations of stars formed.

"It's an extremely exciting discovery, since so little is known about this stage of the universe in terms of the objects that lived there, or how galaxies — giant collections of stars — might form," said Arjun Dey, a postdoctoral fellow at Johns

Hopkins University in Baltimore, who led the team that made the discovery.

As the cosmic "egg" exploded, according to Big Bang theorists, the cosmos was a smooth soup of warring subatomic particles. As it expanded, the universe cooled and somehow transformed itself into the landscape of star-filled galaxies that we see. Just how, and when, that transformation occurred is one of cosmology's great mysteries. Astrophysicists are unable to test, refine or refute theories about how galaxies form without direct, observational evidence.

"We are trying to find baby galaxies," said Dey. His team used the largest optical and infrared telescopes in the world — the 10-meter Keck I and II complex atop the dormant volcano Mauna Kea in Hawaii. "These are galaxies that ... are essentially collapsing from a large gas cloud and forming their first generation of stars."

Because of its great distance, and the constant speed of light, the

researchers said, they see the early galaxy (known as 0140+326RD1, or "RD1" for short), a relatively short 820 million years after the universe sprang into being as a uniform, expanding fireball of particles. (This assumes the universe is about 13 billion years old, a figure that is debated.) This means the light has traveled a distance of about 12.22 billion light years.

The discovery "significantly expands our reach into the known universe," said astronomer Steven Maran of the American Astronomical Society.

Frederic H. Chaffee of the Keck Observatory joined this search to help confirm the discovery. The team also included astronomers Hyron Spinrad, Daniel Stern and James R. Graham, of the University of California at Berkeley.

The finding gives astronomers hope that the embryonic stages of galaxies similar to today's large spiral and elliptical galaxies might be bright enough to be seen by the Kecks and other large instruments.

# NASDAQ, Amex Consider Merger In Major Challenge to the NYSE

By Brett D. Fromson  
THE WASHINGTON POST

The National Association of Securities Dealers, which runs the second-largest U.S. stock market, is discussing a merger with the struggling American Stock Exchange, which officials said could give the NASD the cachet to challenge the New York Stock Exchange for blue-chip listings and give the Amex access to new technology that would revolutionize its trading system.

The NASD has largely eclipsed the much older Amex in recent years, but both have suffered from scandals, leaving them in a difficult struggle with the Big Board, the nation's dominant securities market. A merger is not yet certain, executives said, and any firm proposal must be approved by at least two-thirds of the members of the Amex, the NASD board and federal regulators.

If the deal is approved, the Amex would for the first time give customers a choice of two ways to execute their buy and sell orders. The customers' broker could either

do an electronic trade — where an order would be filled at the current, best price as displayed on a computerized central order book — or a manual trade, where a broker on the exchange floor would carry the order to the actual specialist post and haggle over price.

Currently at both the Amex and the NYSE, orders can be delivered electronically to the specialist, but a human being has to intervene to execute each one. This tradition of a human in the middle of every trade is something both the Amex and the NYSE have spent hundreds of thousands of dollars trumpeting as the best and most fair way to trade stocks.

But not anymore, at least as far as the Amex is concerned. "This will give people freedom of choice," said one source who supports the merger. He noted that several exchanges around the world use technology extensively and "a lot of people feel this is a better mousetrap."

Sources said the Amex hopes its trading volume will rise significantly as part of the merger. That would

generate higher revenue for the exchange, which it would share with its members under some sort of revenue-sharing agreement.

The meaning of a combination to investors is unclear, according to securities regulators and Wall Street executives.

Some say investors will gain; computer-driven orders, officials said, can be executed more efficiently than orders handled by the Amex's floor brokers. A merger could lower operational and regulatory costs borne by the member firms that participate in both markets, and those savings could be passed along to investors in the form of lower brokerage commissions.

Others say that it is uncertain where the cost savings are to come from because, at this point, experts expect the NASD to maintain both markets as quasi-independent entities. Only 783 companies list their stocks on the Amex. So even if the NASD can bring trading efficiencies to the Amex, the boon for investors is likely to be relatively small.

### Finding Sheds Light on Prehistoric Farming in Americas

LOS ANGELES TIMES

Researchers have discovered a surprisingly large farming village in northwestern Mexico that was inhabited at least 3,000 years ago — 2,000 years earlier than any other site of such scale in the region — the scientists announced Thursday.

The archeological evidence from the site, called Cerro Juanaquena, supports a new view of how humans first adopted farming as a way of life in Central and North America, experts said.

The research, published Friday in *Science*, strongly suggests that these ancient people of the Southwest had settled into large, well-constructed communities to till a variety of crops, at a time when scholars previously had thought that only small roving bands of hunters held sway in the region.

Moreover, it appears that these prehistoric people pursued farming well before the introduction of maize or squash, which were key crops in the ancient Americas.

Bruce D. Smith, an authority on early agriculture at the Smithsonian's National Museum of Natural History, called it "the latest in a decade-long string of surprises" about prehistoric farming in Mexico and the Southwest United States.

"The thing that stands out the most is the scale of the settlement," Smith said. "More than resolving questions, it opens up a whole new area for agricultural research."

### Worldwide Celebrations of Pi Will Go On and On, More or Less

LOS ANGELES TIMES

This Saturday, thousands of people around the world will unite to sing songs, recite poetry, perform bizarre rites and eat ritual food in honor of their favorite number.

The number is pi, 3.1415926535 ... ad infinitum. It's the number you get when you divide the circumference of a circle by its diameter, and it can't be expressed as a fraction. It goes on forever.

Such so-called "irrational" numbers seemed so offensive when they were first discovered by the early Greeks, according to some accounts, that people were actually murdered for letting out the secret of their existence.

The variety of celebratory modes is almost as long as pi itself, with dozens of Web sites devoted to the number's devotees — or piets, as they are called. Posted, along with formulas for calculating pi, are pi carols, poems and other utterly useless bits of pi trivia for honoring the day. At the Exploratorium science museum in San Francisco, the faithful usually gather around the "pi shrine," a small brass plate (a pi plate, you might call it) engraved with pi to a hundred digits along with other obscure mystical symbols.

"We circumambulate the shrine 3.14 times," said Exploratorium scientist Ron Hipschman.

# It only takes one afternoon to make a lifetime of difference!

**Volunteer!** Help improve the lives of people infected with or affected by HIV and AIDS. Short term and long term volunteer opportunities are available.

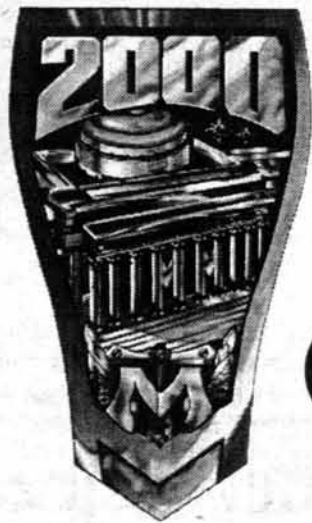
For more information or to get involved, call **Robert**, the volunteer coordinator at **Positive Directions**, at (617) 262-3456.

Positive Directions has been providing support, information, and advocacy for the HIV/AIDS community for over 10 years. Our services are available free of charge to all people infected with or directly affected by HIV.



**POSITIVE DIRECTIONS**

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# MIT CLASS OF 2000



## Ring Sale

March 13<sup>th</sup>, (Fri.)

March 16<sup>th</sup> - 18<sup>th</sup>, (Mon. - Wed.)

10:00 A.M. - 4:00 P.M.

Lobby 10



**THE "BRASS RAT"**

**"KEEPS ON GOING AND GOING AND GOING..."**

# OPINION

## Letters To The Editor

### Publicity Poor For Visiting Committee

In your article "ODSUE Visiting Committee Consults Students, Prepares Final Report," [Mar. 6] Dean of Students and Undergraduate Education Rosalind H. Williams claimed that the meeting on Wednesday, March 4 was well-publicized. In a sense that is true, but in another, more accurate sense it is not.

Dean Williams cites advertisements placed in *The Tech*. I saw one such ad. It announced that the ODSUE Visiting Committee was coming. Regrettably, there was no mention of what ODSUE is, nor even of what the initials stand for. Needless to say, the ad was not particularly compelling.

Perhaps Dean Williams should reconsider why students did not attend the meeting.

James P. Sarvis G

### IS Plans New Multimedia Options

Justin A. Kent '00 wrote to complain about the absence of graphics and multimedia equipment in Athena clusters ["MIT Lacks Adequate Computer Tools," Mar. 6]. I'm writing to assure Justin and others that Information Systems is currently working to remedy this. Since the spring of 1997 we have been members of the New Media Centers Consortium, a group of colleges and universities that work with hardware and software vendors to bring media tools to campus computing environments. IS had hoped to have a new cluster/classroom of multimedia equipped machines (complete with color scanners, video digitizers, and a variety of software) ready by January, but due to campus construction delays, the room IS was allocated has not yet been vacated. IS has been told that the current occupants will be out in April. Once ready, this facility will be used as a classroom during the day but will be open to students during staffed evening hours.

In addition to that cluster/classroom, we are already operating a small New Media Center lab in our new offices on the lower level of Building N42. This facility is primarily for the use of faculty and teaching assistants, but since the cluster is not yet ready, students can also reserve time on the machines for course-related use.

Students who would like to know more about the MIT New Media Center or reserve time on the equipment should see our web page at <http://web.mit.edu/nmcl/>.

Katie M. Livingston  
Director, New Media Center

### Athena Wastes More Time than Elevator

The proposal to solve student time pressures by Naveen Sunkavally '01, ["Student Center Express," March 10] misses an essential point that I have observed throughout my stay at MIT: The average student that takes the elevator to the fifth floor of the Student Center heads for the Athena cluster to surf the Web, exchange e-mail, zephyr with friends, or play games. Obviously, these activities decrease efficiency, since students are diverted from their academic tasks.

I have experimentally observed, although not quantitatively measured, that the time effectively spent in an Athena cluster is very often longer than *a priori* expected. Therefore, an express elevator that may save a few seconds per trip would encourage students to go to the Athena cluster and devote more time to leisure activities.

It seems obvious that keeping the "slow, decrepit elevators" or even reducing their speed would be an efficient method to deter students from going to the Athena cluster, thus letting them focus on their academic tasks.

If Mr. Sunkavally continues his research on such a fascinating topic, it will be a serious candidate for the Ig Nobel prize.

Luis Garcia-Delgado G

### Express Elevator Not A Time Saver

I have several comments regarding the recent column "Student Center Express" by Naveen Sunkavally '01 [March 10]. First of all, is *The Tech* running out of things to complain about such that they have to resurrect previous columns? I point you to "Student Center Needs Express Elevators" by Anders Hove on September 27, 1996. It would be one thing if Hove's article was written many years ago, but it was just printed during the last school year.

Second, the major point about improving the physical fitness of the students seemed illogical, considering that the majority of students already take the elevator from the first to fifth floors. Perhaps we could eliminate elevator travel to the fifth floor; then, the students who are whining about the slow elevators will be forced to save time by taking the stairs. Also, "the lazy students and Aramark workers [taking] the elevator from the second to third floor," will save time as well, since the elevator won't go up to the fifth floor on every trip.

Third, the assumption that the average MIT student takes the elevator three times per day (was that three round trips?) seems ridiculous. I would bet the average student who lives in west campus housing doesn't even ride those elevators three times per day, not to mention all the students who live in East Campus and prefer the Athena clusters in Buildings 56 and 66 clusters. That doesn't even cover the third of students who live across the river and probably only log in once or twice per day, likely from home. Personally, I have a computer on my desk that fills all my internet needs, so I log in in the student center perhaps three times per semester.

These people who rarely use Athena workstations would, by your calculations, save about six minutes a year. These savings do not seem large compared to the expense of the handicapped and elderly who need to take the elevator to the middle floors.

Todd N. Chamoy '98



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## AMERICANS REACT TO THE LATRELL SPREWELL RULING...



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# Campus, the Cauldron of Conservatism

Indranath Neogy

Recently, the debate about freshman housing has subsided as students become consumed by the new semester. Housing is not a new issue; it has flared up periodically throughout my time in school. To me, the most notable part of the recurring discussion has been a statement offered by several different faculty over the years: "MIT students are the most conservative element on campus." This is the polite version of the idea that students are reactionary and the main obstacle to improvements in student life at MIT. Usually, the debate usually dies down too quickly to examine these statements closely. This statement needs a reply; I will take this time to answer from a student perspective.

Students are opposed to change in the housing system, but not from from an ideological standpoint. Students are opposed to change because they have built a life within the current system. They have worked hard to find friends and a sense of community in the prevailing social landscape, and they do not want to discard it.

Fear of change is not the only cause of their opposition. Students are forced to oppose change because they are given no voice in how it should occur. The rhetoric of the housing debate seeks to denigrate students for not being open to constructive change, but it takes no account of their lack of influence. If their view is worthless, why should they support change?

Some faculty members ignore the distress of students; they merely note that their proposals are in line with the practices of many other colleges, and express a belief that

change is necessary to promote a more academic environment at MIT. For them, student life is to be arranged for students' greater good, whether they like it or not.

This belief is the root of the problem in the housing debate. Many people believe that students cannot be trusted to make reasonable decisions about their life. They think students are incapable of seeing the bigger "educational picture," and are simply looking for the easiest route through college.

Naturally, I take issue with this idea. There is a broad range of maturity and apathy within the MIT student community; some students don't care about their education and some feel very strongly about it, but most lie somewhere between the extremes.

When a substantial majority of the student population opposes a change, it is facile and a little stupid to suggest that it is because students are all beer-crazed layabouts whose main concern is to protect their little comforts. It is wiser to look at their reasons and amend the change.

Some good ideas have run into practical difficulties that could have been solved by trust, goodwill, and a problem-solving attitude. But the faculty and administration have not earned the goodwill of the student body. Too often students have seen unilateral and unwanted changes imposed from above. As a result, the students have no confidence in change, because there is no record of commitment to solving the detailed problems of student life.

This is exacerbated by the small number of faculty and administrators living on campus. If half the faculty had to walk home to Next House every night, I'm sure there would be

greater confidence in their ideas for creating a less fragmented community. Likewise, if more people had to live within the community that their proposals will produce, then I suspect they might be a little more conservative too.

Faculty do not seem to understand how highly students value existing communities. After all, most faculty members have not been students for many years. I believe that this is why they can think that change in freshman housing will not affecting other students. It has been so long since they lived in such a community that they cannot see how the community would be affected by the loss of its youngest members.

The doom and gloom I have been expounding is a product of hearing professors tell me that their plan is fine, and then get in their cars to return home to Brookline, New Hampshire or Newton, not an on-campus residence.

However, things can change. Some faculty already serve as housemasters in dormitories; perhaps a few more who are horrified by the rising cost of living might be persuaded to form a community in a graduate dorm. Then, senior administrators could be given six weeks of 6.001, 2.007, and two other classes of their choice. Of course, while taking classes, some would be housed in a Baker quint and the rest in a MacGregor single.

If such notions are too radical, then the Institute can fall back on a curious notion. It can listen to the ones with the experience, the students, and find what they value in their life. If they are given input, the administration may find that students won't turn out to be so conservative after all.

# IHTFP: 'H' is for Hack, Right?

Jennifer Chung

It occurred to me recently that I've completed about three-quarters of my very first year at MIT. Several thoughts popped into my head:

1. I hadn't seen or heard of anything artificially put on the Great Dome yet.

2. Actually, I haven't seen or heard of much of *anything* hack-ish yet.

3. Well, I admit that the gargoyles were pretty cool.

4. But this is MIT! There should be much more of them: big hacks, little hacks, purple hacks, green hacks, baby hacks, and mommy and daddy hacks. These things are the breakfast of the nerd, the manna of the soul, and the underlying, intrinsic bond that keeps students of the Institute from attacking their fellow sibling in the Sloan School of Management (Course XV).

5. I should complain now, while I still have two months of youth and immaturity to hide behind (that means I can't be taken too seriously, nor chided too roughly).

"But Jennifer," a friend of mine protested to me the other day, "hacks are supposed to be timely and inspired, and gifts from God."

But I protested back: "I want more haaaaacks..."

My friend at Caltech, for example, is always telling me about the pranks he and his housemates play on the other houses. If I'm to believe what he tells me, he spends all of his time plotting evils to visit upon the unwitting residents of Fleming House. Am I supposed to take this to mean that Caltrekkies are more inspired than we are? Perhaps my Bexleyness accounts for the lack of group unity which may produce hacks. But it's not like my housemates must be unwilling to torment Baker.

Someone told on to me that hacks have apparently been getting less techy and more artsy. She hastened to point out that this didn't mean that the more recent hacks weren't good — some of the hacks described by the Athena dialups (ten-thousand-dollar-bill and no-knife for example) can be considered paragons of hackness, even though they required less technical skill and prowess.

However, where are the grumpy-fuzzball and the Hahvahd-Yale football disturbances? Managing to blow up a large balloon in the midst of a football game is far more technically challenging than convincing an announcer to read a message. Is this supposed to be a scary indication of how the institute's ability to transfer technical knowledge to students is in decline? I thought this was the Institute of Hacks, Tomfoolery, and Pranks.

When finals rolled around last December, I eagerly kept my eyes opened, hoping for a legendary hack. I'd been told hacks are good ways to relieve the pressure and stress caused by studying too much. Alas, I saw nothing.

When IAP rolled around, I thought, "Well, maybe now that there's more time, students will be able to engage in hackish activities." No such luck.

Plus, I have to take a required course only offered during IAP. This isn't the MIT I wanted to attend, nor is this the MIT that crusty old alumni/ae have told me it used to be. Someone must have lied to me. What a disillusioning six months this has been. I better have an epiphany soon.

But until then, give me a pi for March 14, color Building 54 for St. Patrick's Day, or publish a reamer, and make fun of my column, please!

Now, I'm going to open letters@the-tech only to discover that the inbox is flooded with mail. There will be 400 e-mails from the five people actually reading this, the gist of the letters being that I'm being a holier-than-thou brat, and if I want a hack so much, why don't I instigate one?

Good question. I can now save face by turning this column into a obtuse commentary on how my attitude represents the passiveness of the current student body: We are willing to say but not willing to do, and the administration can and already has overpowered us because of our uncaring apathy.

Then again, I'm not *unwilling* to implement a hack; I'm just not capable of implementing one by my own short, lonely self. Also, I haven't seen an example for me to have learned from. I know, I'm not supposed to know how a hack is implemented; that's part of its mystique.

Still, do I have any helpers out there? Please... A hack for a hack writer.



# Copyright Versus Patent in the Digital Age

Guest Column  
Catherine Preston

I have been thinking about the Microsoft-monopoly issue for some time. This is mainly because I am a die-hard Macintosh fan, and it still irks me that a more cumbersome, less elegant architecture seems to be winning the operating systems' war. As I have been told, time and again, that is the way the cookie crumbles. After all, Betamax was technically superior to VHS and it lost that battle; it happens.

I can accept that. Even if it means the ultimate demise of my beloved Apple, I can accept it. But there is a distinct difference between Windows 95 and VHS: the former is copyrighted, and the latter is patented.

This might seem like a small difference to those of us outside of the intellectual property market, but it is an absolutely crucial one. Patents are designed to protect inventors for long enough for them to recoup their research costs, but then give the public the benefit of their inventions. We see this with pharmaceuticals all the time — for a few years, all you can find is the brand-name drug. When generic brands becomes available, we all save a bundle of money.

But the really critical thing about patented technology is that it is used as a platform for copyrighted material. The movies we watch on our VCR's all use the same technology to play and record, but the content of the movie is different, and therefore is protected by copyright.

Imagine this: When VHS was created, Sony managed to copyright, rather than patent, the design. That would mean that to own a VCR, you would have own a Sony machine, or a machine licensed by Sony. Sony, as we all know, also produces movies, which eventually come out on videotape. Under this scenario, only Sony would know

the full capabilities of the VHS system; thus, their tapes would run much better, look much cleaner, and do cooler things than anyone else's movies. Sony would not only monopolize the VCR business, but it would dominate the videotape business as well. If anyone wanted their movies to look as good as Sony's, they would have to ask Sony to produce the tapes. The movie producer would be a much more significant factor in choosing what movie to watch than it is today.

This is precisely what has happened with operating systems. The operating system, because it is written in code instead of circuit design, is copyrighted. It is the arena in which all software applications — word processing, games, spreadsheets or anything else — must compete. It is precisely analogous to the VHS system.

It is true that VHS has an even larger market share than does Windows. It was patented, not copyrighted, and it still emerged as the dominant system, to the exclusion of all other videotape formats in the U.S. But the key point here is that many companies produce VHS recorders; if you want a Windows system, you still have to go to Microsoft, not a third party.

Therefore, it is not surprising that more and more people are using Word and Excel than WordPerfect and Lotus 1-2-3. It is not surprising that Netscape is concerned about being driven out of the browser market. If you control the operating system of computers, you can decide which programs will run well and which will not.

I doubt the wisdom of continuing to apply laws passed before pocket calculators were common to the computer age, and there are simply changes that we can implement to improve the system. We can make the distinction between operating systems and application software. We can use the existing patent and copyright laws to make our computing

environments more efficient, productive and competitive. All that is necessary is the recognition that operating systems are patentable processes, not copyrightable writings.

I doubt that this reinterpretation would go over well with any of the powers-that-be at Microsoft, or Sun, or even Apple. It gives their products a 20 year protection instead of in perpetuity. Frankly, twenty years is too long for operating systems patents. Innovation in the computer age moves far faster than that. I passed a guy carrying a box of 5-inch floppies yesterday and realized that it had probably been six years since I had seen them. If we want to use patents to increase innovation and progress in computing, patents in the 5 to 10 year range would be appropriate. Though, of course, the shorter-lived the protection, the more screaming we will hear from the cyber-millionaires.

This screaming should not surprise us, nor should it prevent us from taking action. Monopolists, and this is a form of monopoly, never let go of their power without a fight. Whether it's railroads, steel, or telecommunications, breaking up monopolies requires the resolve of the government on behalf the American people.

Anti-trust and intellectual property laws exist to balance the benefit of the consumer and right of the company to make a profit on innovation. When that balance is out of whack, it is appropriate to take action. In many traditional industries, this meant the forcible break up of one large company into many small ones. Then, it wasn't the playing field that was a problem so much as the teams. In computing, the teams are able to compete, but the playing field is not level. And the playing field includes not just hardware, but the operating systems as well. Once we recognize that, we should all be able to enjoy the benefits of good competition.

Catherine Preston graduated from MIT in 1996.

# THE ARTS

## MOVIE REVIEW

### Everest IMAX Puts You There Without Getting Cold

By Vladimir Zelevinsky  
STAFF REPORTER

Documentary, Omnimax, 70 mm.  
Directed by David Breashears  
A MacGillivray Freeman Films Production  
At the Boston Museum of Science  
Call (617) 723-2500 for information

**E**verest is an unusual Omnimax documentary in that it features something previous movies were lacking — a story. If you recall even the excellent movies like *Yellowstone* or *The Living Seas*, you will remember a collection of spectacular shots connected only by the fact that they were all taken in approximately the same geographical locale. This is not the case here.

The movie tells the story of an expedition climbing Mount Everest. The mountain's name, by the way, is inherited from the days of the British Empire, when Nepal explorer General Everest "discovered" it, replacing the native name of Chomolungma. Everest is the highest mountain in the world, with a height of 29,028 feet high. Because of tectonic plate movement, it is growing approximately 4 millimeters each year.

The story of the climb works extremely well since it has a natural development arc. As it gets harder and harder to climb the higher they are, tension builds in this first-rate adventure. There are dangers at every step: huge ice flows, steep inclines of bare rock, deep crevasses, turbulent storms, frigid temperatures, and — perhaps most dangerous — lack of air. It takes time for the heart to compensate for the lack of oxygen by increasing the breathing and heartbeat rates and by producing more oxygen-carrying red blood cells. If the climbers don't acclimate, they run the risk of greatly increased blood pressure, persistent cough (which can be so severe that it causes cracked ribs), fluid-filled lungs and brains, rapid decrease of mental abilities, and possibly death. Add those to the inherent physical

challenges posed by the climb, and you realize why *Everest*, with all its cinematic splendor, doesn't really make you want to assault the peak yourself.

Not only does *Everest* do an excellent job conveying most of perils and rewards of a climb, it also introduces a truly fascinating band of adventurers. There's Jamling Tenzing Norgay, a Sherpa guide, whose father, Tenzing Norgay, made the first successful climb of Everest with Sir Edmund Hillary. There's Ed Viesturs, who having reached the summit five times previously, this time tries the climb without any supplementary oxygen. It also happens to be his honeymoon, although his wife stays at base camp and can contact him only by radio. There's Araceli Segarra, who, if successful, would be the first Spanish woman to summit, and who, mark my words, will be cast as a Bond girl one of these days,

since she is as physically capable as she is charismatic.

With a few other people, they ascend the mountain, lugging with them not only tents, clothing, food, equipment, and supplementary oxygen, but also the heavy Omnimax camera and hundreds of roll of film (one roll, by the way, records only 90 seconds, since it's used up at the rate of 5.6 feet per second). Loading the new roll of film into the camera also presents a formidable challenge since it has to be done with bare hands, which is not a pleasant task at temperatures below minus forty. The climb is chronicled in footage which is both breathtakingly beautiful and harshly realistic — this is definitely not a hike in the park. The conditions are harrowing, and, in a tragic turn of events, an unexpected storm ravages another expedition, leaving frozen bodies in its wake.

There are a few things that could have been done better in this film: The shots of the summit itself make it look just like a pile of snow in your yard (although I presume that the overwhelming scale of the peak can not be conveyed even by the Omnimax camera); the sequence of a dramatic helicopter rescue is obviously a re-enactment clearly because it is filmed from another helicopter; and narrator Liam Neeson has a low, husky voice, just like all the other men on the climbing team, so it's frequently impossible to determine the source of the voice-over (they should have gotten a female narrator).

But these are just minor gripes; everything else combines to make *Everest* perhaps the best Omnimax movie ever. It frequently feels like an Indiana Jones adventure. It offers exotic locales, harrowing adventures, and most importantly, a gripping story.

## MOVIE REVIEW

### Nil By Mouth is Gritty, but Engrossing

By Yaron Koren  
STAFF REPORTER

**F**rom first-time writer and director Gary Oldman comes *Nil By Mouth*, a personal and painful look at the crises of everyday life of a working-class British family. This is about as far removed a film as possible from the formulaic action pictures that Oldman is generally associated with. It is vividly human film, attacking head-on issues such as drug abuse, domestic violence and co-dependency.

If you're looking for escapist entertainment, look elsewhere. There is no sugar-coating here. The set looks drab, and the entire movie is shot on a shaky close-up camcorder for a documentary feel. The thick

dialect of the British working-class isn't watered-down, nor is it (as this viewer would have wished) sometimes subtitled.

*Nil By Mouth* cuts back and forth through the lives of the members of the extended family. Valery (Kathy Burke, whose performance won her Best Actress at the Cannes Film Festival) is a 30-ish housewife, still bearing a sense of innocence and hopefulness about the world despite being married to Raymond (Ray Winstone), who is foul-mouthed, abusive, and frighteningly remorseless. Winstone delivers a tough, brilliant performance, projecting an unexpected tenderness throughout. He makes it easy to forget, at least in the beginning, that the man is a walking time-bomb.

Raymond ruins people's lives: in a rage, he kicks Valery's younger brother, Billy (Charlie Creed-Miles), out of the house after finding out that Billy is a drug addict. Billy is then forced to live on the streets. And Raymond abuses Valery so violently that at one point that she is forced to feign an accident so her friends won't see her battered. Did I mention that she's pregnant at the time? By this point in the movie we are ready to dismiss Raymond as human garbage. Then, unexpectedly, Raymond has a touching confessional scene in which he breaks down while talking to a friend about his distant, tyrannical father. All of a sudden we under-

*Nil by Mouth*, Page 7



# INSTITUTE AWARDS CALL FOR NOMINATIONS

## Final Reminder

Nominations deadline: Friday, March 20, 1998

Mail nominations to: The Awards Committee, W20-500

### Awards Spotlight: Arthur C. Smith Award

The Arthur C. Smith Award was established in 1996 on the occasion of Dean Smith's retirement from the position of Dean for Undergraduate Education and Student Affairs. The award honors the service of Dean Smith and is presented to a member of the MIT faculty for meaningful contributions and devotion to undergraduate student life at MIT.

Questions? Contact Ted Johnson at 3-3913 <tej@mit.edu>

Join Us for the Awards Convocation Wednesday, May 13, 1998 Huntington Hall 10-250

# Amidst the Horror, Nil Characters Keep Dignity

Nil by Mouth, from Page 6

stand the wounded human behind the monster. And we can then sympathize with Valery's agonized decision about whether to leave him or not.

*Nil By Mouth* is not for the faint-hearted. The events in the film pretty much run the gamut of horrible things people can do to one another. Everyone's speech is a constant stream of profanity, from the 20-something Billy to Valery's 60-year-old mother. The movie could have been improved with a little more focus on the positive aspects of their life instead of wallowing in the exploitation: In one scene the camera gazes unflinchingly as Billy desperately shoots up several rounds of heroin. In this, and other cases, less might have been more.

Is this an authentic portrait or is it more a

compressed, hyper-real exaggeration of the problems that routinely face the working poor? If this movie really reflects the reality that Gary Oldman experienced growing up, it's amazing that he was able to break out of the poverty cycle and become a success. But, of course, that may be part of the point.

The really fresh thing about *Nil By Mouth* is the dignity it invests in its characters, without playing down their gaping flaws. These are a bunch of losers, in life and in love, and yet we see the down-to-earth affection that passes between them. Much of the credit for this goes to the remarkable cast, who don't have a false moment between them. If you can stomach the heavy drug use, violence and profanity, there is a lot in this movie that is worth recommending.

Eric Clapton provides the bluesy score, which is notable for its spareness and restraint.



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The UA Election Commission would like to thank Zeta Beta Tau Fraternity, Cesar Ramirez, and Albert Lieja for their special assistance in the Spring 1997 and Spring 1998 elections. Thanks also to all pollworkers who helped make ballotbox voting possible.

**What are you doing tonight?**

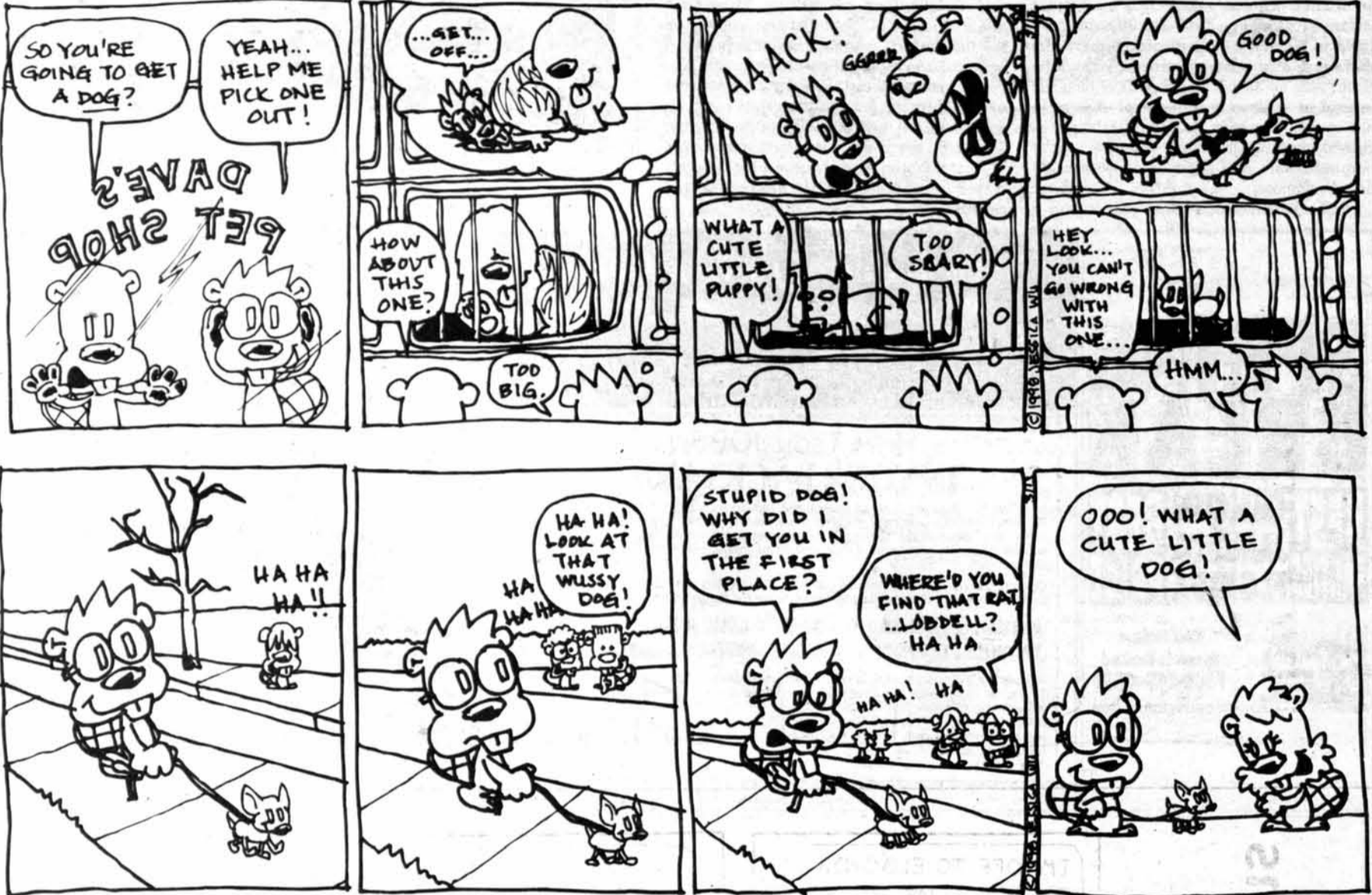
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By Jennifer DiMase



# RHINO MAN



THE STORY SO FAR: When reports surfaced that an investor in her firm had mob ties, Mariko Tamba, Rhino-Man's girlfriend, committed suicide. She died in his arms.

by Zachary Emig



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<http://www.mit.edu/~zbeinig/Rhino-Man.html>

Next Issue: Yakuza, first contact!

# Off Course by Hugo



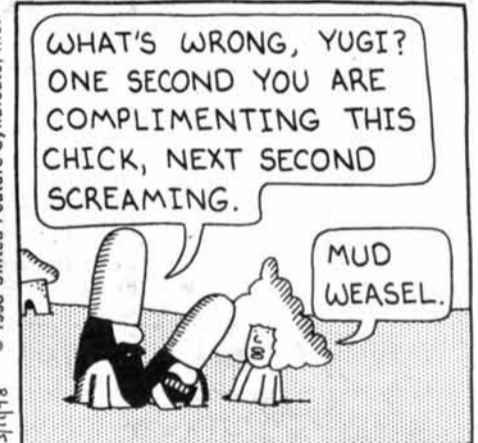
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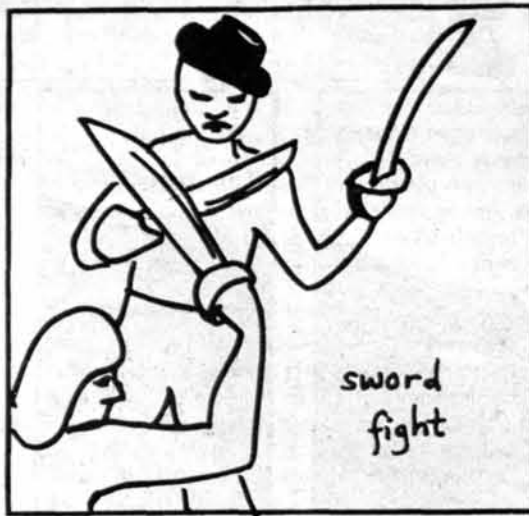
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Noun Poetry  
by Katy-Cat



Trivia Corner The Name's the Same

Congratulations to Aaron Tustin and John Richards who both knew that the name John Adams was shared by a HMS Bounty mutineer, an English astronomer, an opera composer, and a president of the United States, none of whom were related. Incidentally, "Grizzly" Adams, a mountain

man who captured and trained large animals and was the subject of a late seventies television show, also had "John" as his first name.

Aaron and John each win a pair of tickets and a large popcorn, both provided by LSC.

Showing this weekend:

Friday 7:30 p.m. in Room 10-250

*The Great Race*

Friday 7 and 10 p.m., Sunday 7 p.m. in Room 26-100

*Alien: Resurrection*

Saturday 3, 7, and 10 p.m., Sunday 10 p.m. in Room 26-100

*Flubber*

This feature was brought to you by the CAC Program Board. Today's factoids are provided by the MIT Quiz Bowl team.

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- 32 Animal Doc
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- 45 Suffix with hip and road

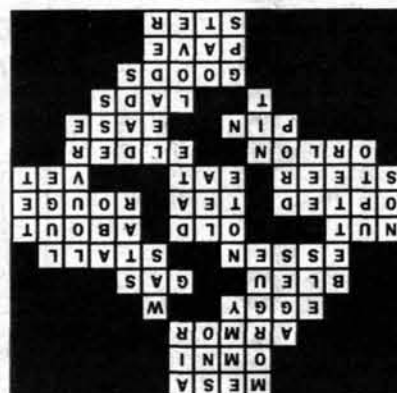
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- 6 Ice and Bronze
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- 11 The sun, for example

By Anthony R. Salas

- 13 Kind of pad
- 15 Blood group
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- 19 snuff
- 21 Meadow
- 22 Go with
- 24 Asian holiday
- 26 Moray
- 27 Let fall
- 34 wit
- 36 Head of the pack
- 37 Fathers
- 38 Double curve
- 41 The big L
- 42 Satellite where-you-are-in-the-world system, abbr.
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KSA will be interviewing at MIT on March 17, 1998.

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# Conference Links Service-Oriented Students and Health Professionals

By Noemi Gispenc

"Change the world!" boomed Robert Lewis, Jr., Executive Director of City Year. He was the last, but not the least, of five morning panelists addressing 150 undergraduates from ten universities at a regional conference called "Service, Policy, Leadership: Meeting the Needs of a Child," sponsored by project HEALTH (Helping Empower, Advocate & Lead Through Health) and the Institute of Politics at Harvard (IOP).

The one-day conference took place Saturday, March 7 at the IOP. The purpose was to provide volunteers who work with inner-city children "the opportunity to consider children's health as a nexus of social, environmental, and economic factors," according to the brochure for the event.

Conference participants broke into four workshops focusing on nutrition, violence, literacy, and environmental concerns, following presentations and a short discussion period with the panelists. After a smaller, informal luncheon discussion, people attended an afternoon workshop on one of the four topics. Various project coordinators then set up displays at a service fair. The conference ended with a final keynote address to the assembled group by the Executive Director of Stand for Children Jonah Edelman.

Each of the panelists and workshop leaders had a different way of saying it, but each was there to inspire and teach college students to follow Lewis's clarion call to change the world.

Throughout the day, conference participants heard about a number of programs, such as Jumpstart, Project Bread, City Year, and Reach Out and Read, in addition to Project HEALTH's 18 student-run programs. Despite this proliferation, the need for well-defined goals was a common theme.

Robert Restuccia, executive director of Health Care for All, related how his organization fared much better once it stopped working for an immediate and total realization of its name and instead lobbied for small, concrete changes. Rick

Weissbourd, Co-Founder of Read Boston, echoed that idea in the morning literacy workshop, referring to the City's commitment to increase the number of children reading by third grade.

Many speakers also emphasized the importance of finding a constituency of affected people, asking them what they want, and responding to their needs. Listening to people in poor communities is not only respectful, but it helps organizers define goals, and it provides organizations with a strong grass roots source of support. "Changing things isn't easy," concluded Edelman. But he added, quoting Frederick Douglass, "Without struggle there is no progress."

### Project Exists to Help Volunteers

Project HEALTH seeks to aid undergraduates affiliated with Harvard University's Institute of Politics and MIT's Public Service Center in their work by putting them in contact with doctors, lawyers and other professionals from the Boston Medical Center Department of Pediatrics. The multi-disciplinary community program "unites the energy and vision of undergradu-

ates, the experience and knowledge of BMC professionals, and the policy expertise of university faculty... to challenge the poor health outcomes, substandard living conditions, political disempowerment, and environmental racism experienced by low-income children," said the brochure for the event.

### Volunteers number 85

Project HEALTH started two years ago as a pilot program. Currently, 85 volunteers participate in projects ranging from asthma advocacy to computerized children's health insurance registration. The conference itself was a joint Harvard-MIT project coordinated by Sumedha Lamba '99 and Eric Vogt '99 of Harvard, and Shawdee Esghi '99 of MIT. Conference participants were from Harvard, MIT, Boston University, Wellesley, Umass Boston, Boston College, Tufts, Brown, Dartmouth, and Smith.

MIT's Project HEALTH Campus Co-ordinators are Anita Krishnan '98 and Pooja Shukla '99. The Director of Project HEALTH is Rebecca Onie of Harvard University.

# Langer's Work Affects Tissue Engineering

Langer, from Page 1

patients. At various times, experts in the field expressed doubts that polymers could be synthesized and said that they were fragile and toxic. Langer found better synthesis methods and approached the situation as an engineering design problem, changing the way the field was viewed.

### Scientists can engineer tissues

Langer's work also had a significant impact on the field of tissue engineering. Scientists can now use polymers to guide the growth of tissue cells, and researchers have already managed to replicate a human ear starting only with a few skin and cartilage cells.

Langer said that these techniques could soon be used to grow yet other organs. He showed a graphic picture of a child suffering from liver failure, noting in the past that "to help someone like this meant someone else had to die." With advances in tissue engineering, these patients would no longer be reliant on the overextended organ donation system, he said.

"This is just the tip of the iceberg... it is my hope that we'll be able to progress further and that these [advances] will help alleviate suffering and prolong life," Langer said in his concluding remarks.

Langer has collected 265 patents, has published 512 articles, and has won 50 major awards.

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**POSITION AVAILABLE IN THE ADMISSIONS OFFICE AS AN ADMISSIONS COUNSELOR**

The Office of Admissions is now accepting applications for the position of Admissions Counselor. This is a one-year full-time position beginning in July, 1998. Duties include:

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- interviewing prospective applicants
- visiting secondary schools
- coordinating MIT student involvement in reception area
- participating in admissions committee decisions

Applications are available in the Admissions Office, 3-108, with Millene Hahn and should be returned no later than April 1, 1998.

Note: This is for 1998 (January or June) MIT graduates.

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## Popular Music

### Avalon

15 Lansdowne St., Boston. Tickets: 931-2000. Information: 262-2424.  
Mar. 27: They Might Be Giants, with Lincoln and Double Dong.  
Apr. 15: Sister Hazel.  
Apr. 17: The Specials.  
May 2: Our Lady Peace, with Black Lab and Headswim.

### Berklee Performance Center

136 Massachusetts Ave., Boston. Tickets: 931-2000.  
Mar. 21: Victoria Williams, with Chris Stills. \$19.50.

### The Palladium

261 Main Street, Worcester. Tickets: 423-NEXT.  
Mar. 13: Insane Clown Posse, with Misery and Psycho Realm. \$15.  
Mar. 14: Portishead. \$20 advance, \$22.50 day of show.  
Apr. 11: Squirrel Nut Zippers. \$17.50.

### Somerville Theater

Davis Square, Cambridge. Tickets: 628-3390 or 931-2000.  
Mar. 21: 6th Annual Festival of Women Songwriters, featuring Mindy Jostyn, Mica Richards, Faith Soloway, Elizabeth Von Trapp, and Eddie from Ohio. \$16 and \$15, students and seniors \$2 off, add \$1 day of show.

### Providence Civic Center

1 LaSalle Square, Providence. Tickets: 931-2000.  
Apr. 4, 5: Phish. \$25. Both shows sold out.

### The Orpheum Theatre

Hamilton Place, Boston. Tickets: 423-NEXT. Information: 679-0810.  
Mar. 19: G. Love and Special Sauce, with Alana Davis. \$18.50.  
Apr. 3: Steve Miller Band. \$36, \$26.  
May 5, 6: Bonnie Raitt, with Keb Mo. \$36, \$26.

### The Roxy

279 Tremont Street, Boston. Tickets: 931-2000. Information: 281-6946.  
Apr. 1: An evening with Strangefolk. \$14. On sale 3/3 at 10 a.m.  
Apr. 5: Reverend Horton Heat, with face to Face & The Mighty Blue Kings. \$16.50.  
Apr. 10: Spring Funk Fest, featuring Liquid Soul and Brooklyn Funk Essentials. \$20 advance, \$23 door.  
Apr. 14: Funk Music Festival, featuring Maco Parker, Fishbone, and Five Fingers of Funk. \$25.

### Paradise Rock Club

967 Commonwealth Ave., Boston. Tickets: 423-NEXT. Information: 562-8800.  
Mar. 13: Jen Trynin, with Gravel Pit.  
Mar. 15: Sawdoctors.  
Mar. 17: rubyhorse.  
Mar. 19: "Band 2 Band Combat" featuring Entrain, Heavy Metal Horns, Rippopotamus, Jiggle The Handle.  
Mar. 20: Fat Bag, with Epileptic Disco.  
Mar. 22: Joe Satriani, with The Derek Trucks Band.  
Mar. 25: The Aware Tour featuring Gibb Droll, Thanks to Gravity, Train.  
Mar. 27: Space Monkeys, with Ivy, door.  
Mar. 28: Splashdown, with Betwixt.  
Apr. 1: Whiskeytown.  
Apr. 3: Percy Hill.  
Apr. 4: Babaloo, with John Browns Army.  
Apr. 7, 8: Leftover Salmon.  
Apr. 11: Marc Cohn.  
Apr. 16: Slipknot.  
Apr. 17: Superdrag, with Apple in Stereo and Tuscadero.  
Apr. 18: Chapter in Verse, with Ben Swift Band.

### The Middle East

472 Massachusetts Ave., Cambridge. Information: 497-0576.  
Mar. 12: The Ventures, The Fathoms.  
Mar. 14: Allstonians, Big Bad Bollocks, Conehead Buddha.  
Mar. 16: Blanks 77, Against All Authority, Razorwire, Saturday's Heroes.  
Mar. 17: The Racketeers, Brooklyn Bums, The Agents.  
Mar. 19: Mors Syphilitica, The Moors, Reflecting Skin, Sabot.  
Mar. 20: Rocket From The Crypt.  
Mar. 21: The Damned, Tura Satana, Man Will Surrender.  
Mar. 22: John Brown's Body, Motion, The Mighty Charge.  
Mar. 25: Lagwagon, Ducky Boys, Carpet Patrol.  
Mar. 26: Hypnotic Clambake, Smokin Grass, Acoustic Syndicate, Larry Keel Experience.  
Mar. 27: Canine, Viper House, Miracle Orchestra.  
Mar. 28: Helium, Sleater-Kinney,

# On The Town

A weekly guide to the arts in Boston  
March 13 - 20

Compiled by Joel M. Rosenberg

Send submissions to ott@the-tech.mit.edu or by interdepartmental mail to "On The Town," The Tech, W20-483.

Fan Modine.  
Mar. 29: Sleater-Kinney, Helium.  
Mar. 31: Rorschack Multi-Media Event w/ Roger Miller of Binary System, Jake Trussell of Toneburst Collective.  
Apr. 1: Los Fabulosos Cadillac, Cherry Poppin' Daddies.  
Apr. 2: Skatalites, Let's Go Bowling.  
Apr. 4: The Charlie Hunter Quartet, Galactica.  
Apr. 6: The Promise Ring, Jimmy Eat World.  
Apr. 11: TR3 (featuring Tim Reynolds).  
Apr. 24: Dick Dale.  
Apr. 29: Nashville Pussy, Gaunt, Cosmic Psychos

### Great Woods

Tickets: 423-NEXT or 423-6000.  
Jun. 3, 5: James Taylor. \$36 pavilion, \$20 lawn.  
Jun. 21: WKLB Boston Country Festival, featuring Randy Travis, Joe Diffie, Martina McBride, Lee Roy Parnell, Jo Dee Messina. \$28.50 pavilion, \$18.50 lawn.

## Folk Music

### Club Passim

47 Palmer Street, Harvard Square, Cambridge. Tickets: 492-7679.  
Mar. 12: Deb Pasternak.  
Mar. 13: Ratsy (CD Release), with Chris Elliott.  
Mar. 14: Howard Armstrong. (617) 492-7679.

## Classical Music

**Boston Symphony Orchestra**  
Symphony Hall, 301 Massachusetts Ave., Boston. 266-1492, 266-1200. Tuesdays, Thursdays, Saturdays, 8 p.m.; Fridays, 1:30 p.m. \$23-\$71; rush seats \$7.50 day of concert, on sale Fridays from 9 a.m., Tuesdays and Thursdays from 5 p.m. Free tickets for MIT students Tuesday evenings and Friday afternoons. Call 638-9478 for ticket availability.  
Dutilleul's The Shadows of Time and Mahler's Symphony No. 6 on Mar. 13 at 1:30 p.m.

### Boston Lyric Opera

Emerson Majestic Theater, 219 Tremont St., Boston. 542-OPRA. Tickets: \$25-\$98.  
Jules Massenot's Werther on Mar. 12 at 7:30 p.m., Mar. 14 at 3 p.m.

## Jazz Music

### Regattabar

Charles Hotel, Harvard Sq., Cambridge. 661-5000.  
Mar. 12: Sergio Brandao and Manga-Rosa.  
Mar. 13, 14, 15: The Jazz Passengers, with special guest vocalist Debbie Harry.  
Mar. 17: Mark Shilansky & Visions.  
Mar. 18: Billy Novick & Guy Van Duser.  
Mar. 19: Claudio Ragazzi Quintet.  
Mar. 20: Roomful of Blues.  
Mar. 21: Rebeccas Parris with Ian Shaw & the Kenny Hadley Big Band.

### Sculler's

400 Soldiers Field Rd., Boston. Tickets: 931-2000. Information: 562-4111.  
Mar. 12: Chuck Loeb  
Mar. 13, 14: Danilo Perez Ensemble.  
Mar. 18: Everett Harp.  
Mar. 19: Carol O'Shaughnessy, Jan Peters, and John O'Neil.  
Mar. 20, 21: Jimmy Scott.  
Mar. 25: Carol Akerson, with Bob Winter and Herb Pomeroy.  
Mar. 26, 27: Monty Alexander and Yard Movement.  
Mar. 29: Fatal Mambo.  
Apr. 1: Bo Winiker Band, with Herb Pomeroy.  
Apr. 5: Fairport Convention.

Apr. 18, 19: Chuck Mangione. University Lutheran Church 66 Winthrop St., Harvard Square, Cambridge. Information: 876-3256.  
Mar. 15: Evening Prayer, featuring Blue Note recording artist Makanda Ken McIntyre, with Makanda Ken McIntyre, reeds; John Kordalewski, piano; Brian McCree, bass; Bobby Ward, drums.

## Film

### Lecture Series Committee

The Great Race (1965). Mar. 13, 6:30 p.m., 10-250.  
Alien: Resurrection. Mar. 13, 7 and 10 p.m., 26-100. Mar. 15, 7 p.m., 26-100.  
Flubber. Mar. 14, 3, 7, and 10 p.m., 26-100. Mar. 15, 10 p.m., 26-100.

## Theater

### Macbeth

La Sala de Puerto Rico, MIT Student Center. Mar. 12-14, 19-21. Tickets: \$6 students/seniors, \$8 general public. Group rates available. Tickets and Info: 253-2903.  
Directed by Tony Simotes, MIT's Shakespeare Ensemble presents the Bard's classic tragedy.

### Iolanthe

Harvard-Radcliffe Gilbert and Sullivan Players, Agassiz Theater, Radcliffe Yard, Harvard. Apr. 2-5 and 9-11. Opening night black tie required. Closing night hack night. Info: 496-HRGS. Tickets at Sanders Theater Box Office, 45 Quincy St., Cambridge, MA. (617) 296-2222. Produced by Jesse Kelleman and Eileen Woo. Directed by Vladimir Zelevinsky G. Music directed by David Lyczkowski.  
A tale of a lovelorn shepherd, his fairy mother, her magical sisters, and their fight with the Britain's House of Lords. Combining whimsical humor, political satire, and romantic drama, "Iolanthe" is a spectacle to be remembered, featuring W.S. Gilbert sharp dialogue and highly quotable lyrics and Arthur Sullivan's hummable tunes.

### Molly Sweeney

At the Boston Playwrights' Theatre, 949 Commonwealth Avenue, Boston (491-2026), through March 29. Curtain is at 8 p.m. Thursday through Saturday and at 2 p.m. on Sunday (March 29 only). Tickets \$17 to \$20; \$15 for seniors and students.  
The award-winning Nora Theatre Company presents the Boston premiere of Brian Friel's three-hander about a blind, married woman who, at her husband's behest, undergoes a series of operations to restore her sight. "In an almost musical counterpoint, the characters reveal the story of Molly's world before and after surgery and her clash with 'sightedness.'" Scott Edmiston, who staged Friel's Dancing at Lughnasa at Worcester Foothills Theatre, directs a cast that includes Judith McIntyre, Paul Kerry, and Richard Mawe.

### Blue Man Group

Charles Playhouse, 74 Warrenton Street, Boston. 426-6912. Playing indefinitely. Curtain is at 8 p.m. on Wednesday and Thursday, at 7 and 10 p.m. on Friday and Saturday, and at 3 and 6 p.m. on Sunday. There are additional performances at 4 p.m. on February 20 and 21. Tickets \$35 to \$45.  
It would be difficult and unfair to catalogue fully the antics of the Drama Desk Award-winning trio of cobalt-painted bald pates who have settled into long runs Off Broadway and at the Charles Playhouse. They begin their delightful and deafening evening of anti-performance art beating

drums that are also deep buckets of primary paint, so that sprays of color jump from the instruments like breaking surf, and end by engulfing the spectatorship in tangles of toilet paper.

### In the Jungle of Cities

American Repertory Theatre at the Loeb Drama Center, 64 Brattle Street, Cambridge. 547-8300, through Mar. 14. Curtain is at 8 p.m. on Mar. 13, and 14; at 2 p.m. on Mar. 14. Tickets \$22 to \$52; senior and student discounts available.  
Robert Woodruff, who directed the premieres of several Sam Shepard plays and staged a stunning 1991 Baal at Trinity Rep, helms this production of Brecht's play in a new translation by Paul Schmidt. Written in 1922 and set in the playwright's idea of a seedy Chicago, the play is billed as "a poetic meditation on the ideals and harsh realities of the American dream." The cast includes that Click and Clack of the ART, Alvin Epstein and Jeremy Geldt, as well as The Bacchae's Randy Danson.

### Wait Until Dark

Wilbur Theatre, 246 Tremont Street, Boston (423-4008), through March 22. Tickets are \$35 to \$62.50. Curtain is at 8 p.m. Tuesday through Saturday, with 2 p.m. matinees on Saturday and Sunday.  
Oscar winners Quentin Tarantino and Marisa Tomei star in this Broadway-bound revival of Frederick Knott's 1966 thriller about a blind woman menaced by a real scary guy. Leonard (Master Class) Foglia directs.

### The Male Intellect (An Oxymoron)

57 Theatre, 200 Stuart Street, Boston. 426-4499. Playing through March 15. Curtain is at 8 p.m. on Thursday and Friday, at 7 and 9:30 p.m. on Saturday, and at 3 p.m. on Sunday. Tickets are \$29.50 to \$34.50; \$20 on Wednesdays.  
Following successful runs in Denver and Chicago, playwright and actor Robert Dubac settled into Boston with his one-man comedy about a recently jilted guy trying to answer the Freudian query "What do women want?" in order to get his girl back. Dubac straddles the genre, if not the gender, gap with a piece that hovers somewhere between theater and stand-up, as he plays not only new lonelyheart Bobby but also a quintet of chauvinist mentors who have contributed to making him a candidate for remedial romance. The premise is pretty silly and the development schematic, but Dubac is a witty, likable performer whose routines about male thinking are amusing if not profound.

### The Taming of the Shrew

American Repertory Theatre at the Loeb Drama Center, 64 Brattle Street, Cambridge. 547-8300, through March 21. Curtain is at 8 p.m. on Mar. 12, and 17 through 21, and at 7 p.m. on Mar. 15; there are matinees at 2 p.m. on Mar. 15 and 21 and at 10 a.m. on Mar. 18 and 19. Tickets are \$22 to \$52; discounts for seniors and students.  
Andre Serban, who helmed such memorable American Repertory Theatre outings as "The Three Sisters" and "The King Stag," makes his mark on the Bard's politically incorrect comedy in which mercenary wooer Petruchio "tames" a headstrong wife. Surprisingly, Serban does not send up the play's most troublesome speech, ex-shrew Katharina's 44-line ode to female abasement; instead he makes it part of a rite of mutual surrender and marital complicity. Kristin Flanders and Don Reilly, who first unleashed their combined Life Force locally in last season's Man and Superman, are a well-matched Kate and Petruchio, but even a pair as talented as they have trouble establishing them-

selves as the headliners of this zany circus of Shakespearean sexism and directorial invention. You may be incensed, but you won't be bored.

### Boston Ballet

"Body Electric," features Lila York's thunderous Irish tribute "Celts," Twyla Tharp's "Waterbaby Bagatelles," and a world premiere by Boston Ballet principal dancer Laszlo Berdo. Through Mar. 12, at the Wang Center, 270 Tremont Street, Boston. Tickets: 931-ARTS, \$12.50 to \$69.  
"Ode to Joy," featuring Lila York's uplifting premiere of same name, set to Beethoven's celebrated choral work, George Balanchine's "Capriccio for Piano and Orchestra," and Daniel Peizig's "Cantabile." Mar. 19-29.

### Dance Umbrella

"Jazz Tap/Hip-Hop: Cool Heat with an Urban Beat," born out of an understanding that a stage can share rapid fire taps with handstands, headspins and splits, by artistic director Jeremy Alliger. Mar. 19 at 7 p.m., Mar. 20 and 21 at 8 p.m., Mar. 22 at 2 p.m. at the Emerson Majestic Theatre, 219 Tremont St., Boston. Tickets: 824-8000, student rush on day of show. Info: 482-7570.

### Alvin Ailey American Dance Theatre

April 14 through 19 at the Wang Center. Call 482-6661 for information.

## Exhibits

### Museum of Science

Science Park, Boston. 723-2500. Daily, 9 a.m.-5 p.m.; Fri., 9 a.m.-9 p.m.; Saturday through Sunday, 9 a.m.-5 p.m. Admission \$9, \$7 for children 3-14 and seniors. Free with MIT ID. Admission to Omni, laser, and planetarium shows is \$7.50, \$5.50 for children and seniors.  
The Museum features the theater of electricity and more than 600 hands-on exhibits. Ongoing: "Discovery Center," "Investigate! A See-For-Yourself Exhibit," "Welcome to the Universe," Through Apr. 26: "Balancing Acts."  
Through May 3: "Living on the Edge." Feb. 18, at 7 p.m.: "Reminiscences: McKinley-Matterhorn-Everest," lecture by Bradford Washburn.  
Now showing in the theaters: "Laser Space Odyssey," Friday through Sunday, 5:30 p.m. "Laser Grateful Dead," Sunday, 8 p.m.; "Laser Rage Fest," Thursday through Saturday, 9:15 p.m.; "Pink Floyd: The Wall," Friday through Saturday, at 10:30 p.m.; "Laser Doors," Sunday at 9:15 p.m.

### Museum of Fine Arts

465 Huntington Ave., Boston. 267-9300, Monday through Tuesday, 10 a.m.-4:45 p.m.; Wednesday, 10 a.m.-9:45 p.m.; Thursday through Friday, 10 a.m.-5 p.m.; Saturday through Sunday, 10 a.m.-5:45 p.m. West Wing open Thursday through Friday until 9:45 p.m. Admission \$10, \$8 for students and seniors, children under 17 are free; \$2 after 5 p.m. Thursday through Friday, free Wednesday after 4 p.m. Monday through Friday, free with MIT ID.  
Introductory walks through all collections begin at 10:30 a.m. and 1:30 p.m.; "Asian, Egyptian, and Classical Walks" begin at 11:30 a.m.; "American Painting and Decorative Arts Walks" begin at 12:30 p.m.; "European Painting and Decorative Arts Walks" begin at 2:30 p.m.; Introductory tours are also offered Sat. at 11 a.m. and 1:30 p.m.  
Ongoing exhibitions: "Beyond the Screen: Chinese Furniture of the 16th and 17th Centuries"; "The Art of Africa, Oceania, and the Ancient Americas."

Through Apr. 12: "America Draws."

### Computer Museum

300 Congress St., Boston. 423-6758 or 426-2800, Tues.-Sun., 10 a.m.-5 p.m. Admission \$7, \$5 for students and seniors, free for children under 5. Half-price admission on Sunday from 3-5 p.m. Tours daily of "Walk Through Computer 2000," a working two-story model of a PC. Museum features a collection of vintage computers and robots with over 150 hands-on exhibits illustrating the evolution, use, and impact of computers. Featured exhibits include "The Hacker's Garage," a recreation of a '70s hacker's garage with such items as an Apple I and Pong, "The Networked Planet: Traveling the Information Highway," an electronic tour of the Internet; "Robots and Other Smart Machines," an interactive exhibition of artificial intelligence and robots, and "Tools & Toys: The Amazing Personal Computer"; "People and Computers: which Milestones of a Revolution," explores a number of ways computers impact everyday life.  
Through May 31: "Wizards and their Wonders: Portraits in Computing."

### Isabella Stewart Gardner Museum

280 The Fenway, Boston. 566-1401. Tuesday through Sunday. 11 a.m.-5 p.m. Admission \$10, \$7 for seniors, \$5 for students with ID (\$3 on Wednesday), free for children under 18. The museum houses more than 2500 art objects, with emphasis on Italian Renaissance and 17th-century Dutch works. Among the highlights are works by Rembrandt, Botticelli, Raphael, Titian, and Whistler. Guided tours given Fridays at 2:30 p.m.  
Through Apr. 26: "Titian and Rubens: Power, Politics, Style."

### Swatch Museum

57 JFK St., Cambridge. 864-1227. Monday through Saturday, 10 a.m.-8 p.m.; Sun., noon-5 p.m. Ongoing: Swatch watches by Keith Haring, Christian LaCroix, Sam Francis, and others.

### MIT Museum

265 Massachusetts Ave. 253-4444. Tuesday through Friday, 10 a.m.-5 p.m.; Sat.-Sun., noon-5 p.m. Admission \$3.  
Ongoing: "Gestural Engineering: The Sculpture of Arthur Ganson"; "Lightforest: The Holographic Rainforest"; "Holography: Artists and Inventors"; "MIT Hall of Hacks," chronicles of MIT's history of pranks, wit, and wizardry; "Light Sculptures by Bill Parker"; "Math in 3D: Sculptures by Morton G. Bradley, Jr.," "MathSpace," a hands-on exploration of geometry.  
Through June 14: "Piranese in Perspective: Designing the Icons of an Age."

### List Visual Arts Center

Wiesner Building, 20 Ames St. 253-4400, Tuesday through Thursday, Saturday through Sunday, noon-6 p.m.; Friday, noon-8 p.m. Through Mar. 22: Frances Torres, "The Repository of Absent Flesh" and "The Fury of the Saints"; Wendy Jacob with Temple Grandin, "The Squeeze Chair Project."

### Rhode Island School of Design

224 Benefit St., Providence, RI. Museum of Art. 401-454-6502, Wednesday through Sunday and Saturday through Sunday, 10 a.m.-5 p.m.; Friday 10 a.m.-8 p.m. Admission \$2, \$1 for seniors.  
Through Apr. 5: "Working the Stone: Process and Progress of Lithography."  
Through Apr. 19: works by Geoffrey Beene.  
Through Apr. 26: "Artistic Expressions from the Human Spirit: Selections from the Nancy Slayes Day Collection of Modern Latin-American Art."  
Ongoing: "Color and Form: 20th Century American Paintings from the Permanent Collection."  
Woods-Gerry Gallery, 62 Prospect St. Monday through Saturday, 10 a.m.-4 p.m.; Sunday, 2-5 p.m. Through Feb. 15: "Sculpture Department Exhibition."

## Talks

### Alcohol - Its Impact on the Living Groups and Its Residents

This educational program will meet requirements for alcohol recertification by the IFC. 12:30 a.m.: Judge Mitch Crane discusses risk issues; 1:45 Ron Fleming with MIT Medical talks about the social and physiological aspects of alcohol; 3:00 p.m. Phi Delta Theta General Council Robert Deloian talks about the effects of PDT's decision to become alcohol-free.

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**\$8.00/hour and all the candy you can eat.** Student callers needed for growing Tech Caller Program. Build communication skills while raising money for the MIT annual fund. \$8.00/hour plus incentives, contact Marilyn Silverstein at 252-1608.

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### ■ Information

**College Ring Found** - 10K Class of 1997 in vicinity of Allston Street in Allston. Please call 635-8409 between 7:30 and 2:00 to claim.

### ■ Services Offered

**Legal problems?** I am an experienced attorney and an MIT graduate who will help you resolve your legal problems. My office is in downtown Boston, accessible by MBTA. Call Esther Horwich at 523-1150.

**COUNSELING: MIT Alumnus** provides confidential counseling and psychotherapy. Flexible cost. Convenient to campus. For more information contact: Arthur Roberts, M.A., C.M.H.C. (617)-247-3395 or Email: [aroberts@alum.mit.edu](mailto:aroberts@alum.mit.edu)

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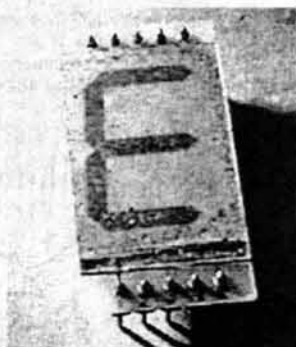
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*If genuine innovation interests you, we have immediate openings for creative, energetic people in courses 2, 3, 5, 6, 8, 10 and 18.*

### Colloid Engineers and Scientists

We have multiple openings in the area of colloid engineering and chemistry to develop novel inks for electronic ink displays. We desire people with skills in one or more of the following: processes for the production and stabilization of colloidal systems; expertise in the chemical and physical modification of colloidal surfaces; nonaqueous colloids; or the formulation of paints and coatings in highly-loaded systems. MS/Ph.D. in chemistry or chemical engineering.

### Molecular Electronics Chemist

Develop novel conductive polymers and composites for use in display devices. The successful candidate will have demonstrated ability at the state-of-the-art in the synthesis and characterization of organic-based conductors, semiconductors, and related devices. Ph.D. plus postdoctoral experience in chemistry strongly preferred.

### Electrical Design Engineer

Design and build circuits to control displays based on electronic ink. Responsibilities include helping produce product prototypes that utilize electronic ink, involving work in new product design, testing and pilot production support. Good communication skills are desirable. Must have the ability to interact with outside vendors to specify and outsource devices and systems. PC board design experience is a must. Exposure to product engineering and manufacturing methods is also desirable. BS/M.Eng. preferred.

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### Product Design Engineer

Design, engineer, and build devices based on electronic ink. We are looking for a creative and energetic, hands-on person to help create product prototypes. Strong skills in product design and development are required, as is knowledge of electronics, materials, and optics. Experience in prototyping and manufacturing are a plus. BS/MS in mechanical engineering or equivalent.

### Chemists

Join our research team in developing microencapsulation processes and materials for electronic ink. Background in organic chemistry (synthesis plus characterization). Must be able to work across traditional boundaries, with the ability to create and evaluate innovations in electronic ink displays. Experience with microencapsulation is desirable but not necessary. BS/MS in chemistry or chemical engineering with 3+ years experience preferred.

### Scientists and Engineers

Openings for energetic people in the areas of chemistry, chemical engineering, physics, and materials science. Work closely with our team of chemists and design engineers to develop electronic ink and novel display products. Wide variety of opportunities, including display construction and evaluation, electro-optical testing, environmental testing, advanced laboratory instruments. Good organizational and communication skills important. BS/MS in relevant fields.



**UNDERGRADUATES NEEDED**  
to participate in meetings for  
**NEWLY ADMITTED STUDENTS**  
during Spring Break 1998 in the following locations:

State	City	Meeting day	Meeting Date	From:	To:
CA	Los Angeles	Saturday	3/28/98	3:00pm	5:00pm
CA	Anaheim	Thursday	3/26/98	7:30pm	9:30pm
CA	Santa Barbara	Sunday	3/29/98	12:00pm	2:00pm
CA	San Francisco	Saturday	3/28/98	2:00pm	4:00pm
CA	San Diego	Thursday	3/26/98	6:00pm	9:00pm
CT	Fairfield County	Wednesday	3/25/98	8:00pm	10:00pm
DC	District of Columbia		See VA		
FL	Miami	Tuesday	3/24/98	7:00pm	9:00pm
FL	Fort Lauderdale	Sunday	3/22/98	3:00pm	5:00pm
GA	Atlanta	Thursday	3/26/98	7:00pm	9:00pm
MA	Worcester	Monday	3/23/98	6:30pm	8:30pm
MA	Cambridge	Sunday	3/29/98	2:00pm	4:00pm
MD	Baltimore	Wednesday	3/25/98	7:30pm	9:30pm
MO	St Louis	Saturday	3/28/98	2:00pm	4:00pm
NJ	Northern New Jersey	Thursday	3/26/98	7:30pm	9:30pm
NJ	Central New Jersey	Thursday	3/26/98	7:00pm	8:45pm
NY	Albany	Thursday	3/26/98	7:00pm	9:00pm
NY	New York	Thursday	3/26/98	7:00pm	9:00pm
NY	Long Island	Saturday	3/28/98	2:00pm	4:00pm
NY	Rochester	Tuesday	3/24/98	6:00pm	9:30pm
OH	Dayton	Wednesday	3/25/98	5:00pm	7:00pm
OH	Cleveland	Tuesday	3/24/98	7:30pm	9:30pm
OH	Cincinnati	Thursday	3/26/98	12:00pm	3:30pm
OK	Tulsa	Thursday	3/26/98	7:00pm	9:00pm
ON	Toronto	Wednesday	3/25/98	7:30pm	9:30pm
PA	Pittsburgh	Thursday	3/26/98	6:30pm	8:30pm
TN	Memphis	Tuesday	3/24/98	7:30pm	9:30pm
TX	San Antonio	Wednesday	3/25/98	7:00pm	9:00pm
TX	Dallas	Wednesday	3/25/98	7:00pm	9:00pm
TX	Houston	Thursday	3/26/98	7:30pm	9:30pm
TX	Rio Grande Valley	Saturday	3/28/98	9:00am	11:00am
VA	Arlington	Saturday	3/28/98	10:00am	12:00pm
VT	Burlington	Tuesday	3/24/98	7:00pm	9:00pm
WA	Seattle	Wednesday	3/25/98	7:00pm	9:00pm

Please stop by the Educational Council (4-240) or call (3-3354) for more information.

## MIT dates & deadlines

### Upcoming student deadlines and other important Institute dates

This service is brought to you by the Office of the Dean of Students and Undergraduate Education. If you know of important dates we have missed, please send them to [deadlines@mit.edu](mailto:deadlines@mit.edu), and we will add them to the deadlines Web site: <http://web.mit.edu/odsue/deadlines/>

Date	Who	What	Where
<b>Monday, March 16, through Friday, April 10</b>			
Mon 3/16	Undergraduates	4th qtr PE lottery begins	Athena: "add pelott" (ret) "xphedu &" (ret)
Thu 3/16	Undergraduates	3rd qtr PE classes end	Mon 3/23 thru Fri 4/10
Mon-Fri 3/23-27	All students	Spring vacation	
Mon 3/30, noon	Undergraduates	4th qtr PE lottery ends	Athena: "add pelott" (ret) "xphedu &" (ret)
Mon 3/30	Freshmen	K. Hodges' contest essays due	7-104, 3-6786
Mon 3/30	Undergraduates	Eloranta summer research fellowship application deadline	<a href="http://web.mit.edu/urop/www/director.html#eloranta;">http://web.mit.edu/urop/www/director.html#eloranta</a> ; 7-103, 3-7306
Mon 3/30	Undergraduates & faculty	Deadline for faculty to nominate students for Wei UROP award	Faculty research supervisor; <a href="http://web.mit.edu/urop/www/director.html#wei">http://web.mit.edu/urop/www/director.html#wei</a> ; 7-103, 3-7306
Tue 3/31	Students who missed PE lottery or who want to add another PE class	4th qtr PE late registration begins	W32-125, 3-4291
Thu 4/2	Undergraduates	Deadline for UROP proposals for academic credit	<a href="http://web.mit.edu/urop/www/">http://web.mit.edu/urop/www/</a> ; 7-103, 3-7306
Thu 4/2	Undergraduates	Deadline for UROP proposals for faculty funding	<a href="http://web.mit.edu/urop/www/">http://web.mit.edu/urop/www/</a> ; 7-103, 3-7306
Fri 4/3	Undergraduates who want to move	Deadline for house to house change request form	<a href="http://web.mit.edu/residence/www/forms/index.html">http://web.mit.edu/residence/www/forms/index.html</a> ; W20-549, 3-6777
Fri 4/3	Undergraduates staying a 9th term	Deadline for 9th term housing request	W20-549, 3-6777
Fri 4/10	All students	Applications for summer housing available	<a href="http://web.mit.edu/residence/www/forms/index.html">http://web.mit.edu/residence/www/forms/index.html</a> ; W20-549, 3-6777
Fri 4/10	Graduate students graduating in June	Last day to submit or change thesis title (\$75 late fee)	Acad. dept; and D. Englehardt, SSC, 8-6434

\*The Student Services Center, Room 11-120, is open Monday through Thursday, 9 a.m. to 5:30 p.m., and Friday, 10 a.m. to 5:30 p.m.

# Class of 1999 Race Under Examination

Elections, from Page 1

"not happy with an appeal... very valid issues have been brought up." It is "better to have the appeal handled and the issue addressed," he said. "Above all there should be a pure election process."

Sandra C. Sandoval '00, current UA vice president and a candidate for UA president, was not disturbed by the delay. "Whatever the judicial review board has to do is necessary," she said.

Campaigning practices in the race for class of 1999 president are also being considered. Raymond W. Szeto '99 sent a large number of messages to members of the class of '99 soliciting votes, a possible violation of election rules. According to Bisen-Hersh, "it turns out that [Szeto] was not using any algorithm... he was just going through the student directory and writing them really nice e-mails."

Bisen-Hersh told Szeto to stop the mailings but took no other action. Pooja Shukla '99, Szeto's opponent, may have appealed that decision.

Shukla herself allegedly sent unsolicited e-mail in violation of election rules. Bisen-Hersh said that Shukla claimed to know all of the people who received messages from her and was not cited with any violations.

### Changes to EC position possible

Despite problems with this year's elections, Carter said that he was pleased with the work of the election commission. "The election commission worked very hard," he said.

After the troubles this year, however, Carter said that the "UA will be looking at the entire election process." Changes will be made to make sure that the job of election commissioner is not overburdening, he said.

## Class of 1998 Class Rings

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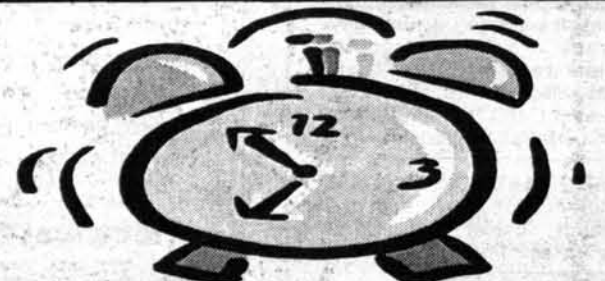
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# Applicants Selected Based on Interest in Education

China, from Page 1

The program is the result of a project started a little less than three years ago by Seid and Cao called the Computer Educational Development Initiative. That project took Seid and Cao to China to advance computer aided education Chinese high schools. Both said they have a deeper understanding of the Chinese people and culture as a result of their experience with CEDI. MIT-CETI is an effort to extend the opportunity to other MIT undergraduates.

The program was advertised to the MIT community last fall through open houses and the use of various e-mail lists. There were over 40 applicants. Twenty seven were selected and 25 accepted.

Applicants were selected based on four criteria: fluency in the language, technical competency, personal initiative, and interest in education. The last criterion was a new addition. "[What we found last year] was that it's very important to have

people who are interested in education, so we made that a factor in the selection criteria," said Seid.

Interns work in teams of two and three based on complementary language and technical skills, allowing students who do not know the language an equal opportunity to take part in the program. Half of the students in the program have had no exposure to Chinese.

"We've spent [the Spring term] training the students — encompassing technical and planning their project. At the end of the term, the students will have a detailed plan of what kind of web site they want to set up and how they plan to accomplish it," said Seid.

### MIT-CETI past and future

In 1997, MIT-CETI interns accomplished a number of firsts: interns set up the first web server at a high school in China, connected a high school to the Internet via wireless technology, and organized the first International Net Day with Sun Microsystems. Interns also held

conferences in Shanghai, Beijing, and Xian to bring together students, teachers, government officials, and corporate sponsors to address high school education and the use of the web.

Daniel A. Dwyer '00, and Mandy L. Mobley '99, two MIT-CETI interns in previous years, were coordinators for this year's program. "We're trying to bring interns from the previous year into leadership role this year," said Seid.

"The goal is that each year's interns will become leaders of the

program the next year, to help the program continue," said Mobley.

There are plans to expand MIT-CETI to other institutions around the country and to send interns to other countries as well. "The MIT-CETI model has inspired another MIT program called the MIT-India Technology Initiative Program — they'll be sending students to India," said Seid.

MIT-CETI is made possible by funding from the MIT-International Science Technology Initiative (MITSI) and corporate sponsors. In 1997 donations from Microsoft

Corp., Sun Microsystems Inc., Accton Technology, Addtron, Proxim, Northern Telecom, Zi Corporation, and Anixter totalled over a quarter million dollars.

Several individuals have also provided significant support including Professor of Political Science and Director of MISTI, Suzanne Berger; Deborah Ullrich, administrative director of MISTI; Li Xing, director of China's Educational Research Network; and Zhang Weijang, deputy director of Shanghai's Education Commission.



INDRANATH NEOGY—THE TECH

Twenty-five MIT undergraduates will intern in China this summer to design web sites and help five high schools connect to the Internet.

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# SPORTS

## Women's Hockey Victorious in Business School Tournament

By Carolyn Phillips  
TEAM MEMBER

The women's hockey team won first place at the Harvard Business School Hockey Tournament last weekend, recapturing their trophy from two years ago. "It was a great way to end our season," said Assistant Captain Anne Mitzel '99.

This year's HBS tournament fielded only three teams after several teams dropped out; however, "that doesn't mean it wasn't challenging," said Assistant Captain Kalpana Mani '99. "Traditionally we've been the favorites, that is 'the ringers' at this tournament. This year we discovered that of the three teams playing, two of them were ringers."

On Friday night, the MIT women played Harvard Business School and crushed them 5-1. Knowing ahead of time they would win, MIT's main objective was to not get worn out for their game the next day.

The only surprise of the game occurred on the opening face-off as Ania Gates of HBS broke out of the pack and netted an unassisted goal. That turned out to be the first and last score by HBS. MIT came back strong with five goals over the first and second period. The Engineers then spent the third period resting while running down the time.

The second game was played Saturday morning against the Lowell Lions. "We were not anticipating a strong team," admitted Tory Herman G, who scored a hat trick on Friday, "and it was a little, well, early." The 8:30 a.m. game was won by the Lowell Lions who dominated the first period with three scores on net. The rallying effort by the Engineers in the second and third period was inspirational but the game ended with Lowell winning 5-3. A notable performance from the MIT team was that of Sarah Webster '99, a first year player who scored one of those three goals.

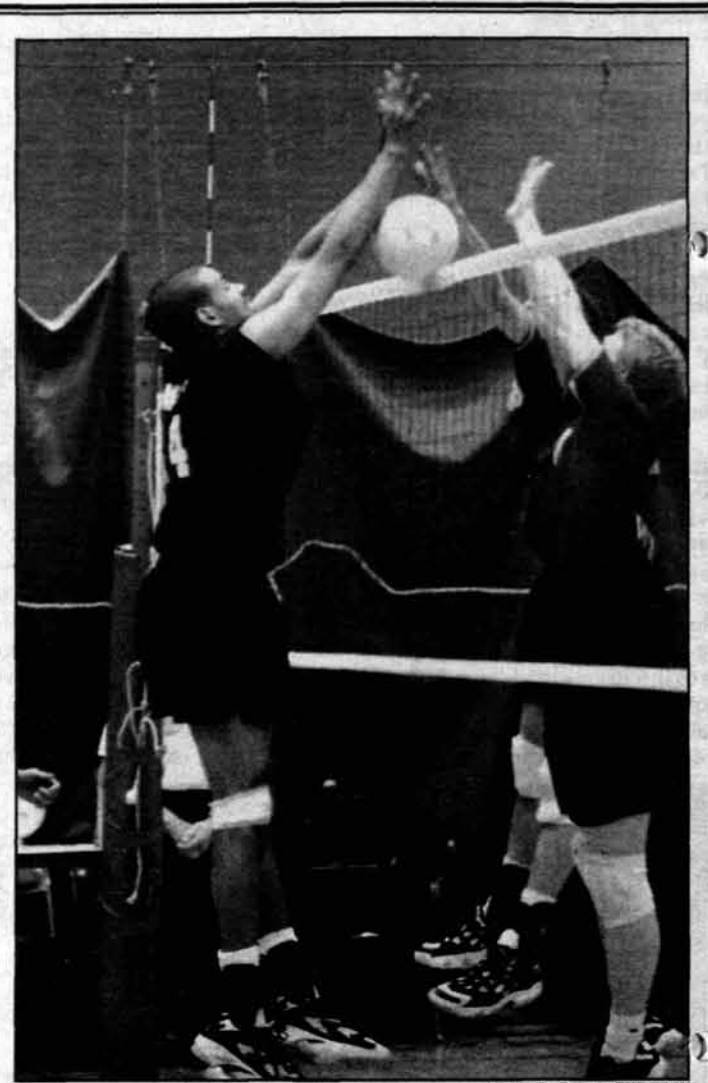
Fortunately, the HBS tournament officials waived the necessity of a second game between MIT and HBS at 7 a.m. the next day, so MIT was rested for the Championship game against Lowell on Sunday afternoon. "I was so psyched for this game," said goalie Sarah Kaplan '01. "This was my tournament and I wanted to win it!" Kaplan, usually a backup goalie for Bree Huning '98, was given a chance to shine as she tended the goal for the entire HBS Tournament.

The MIT team entered the game playing hard and took a 1-0 after one period. Over the second and third period, however, Lowell

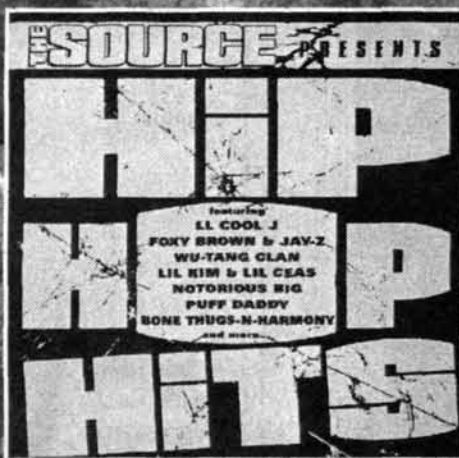
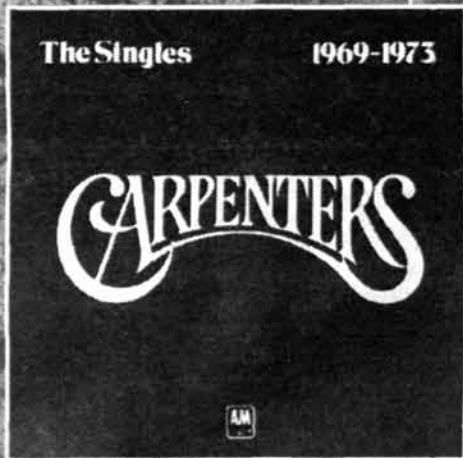
scored two goals, bringing the score to 1-2. Things were looking bad for the Engineers until Patty Lee '98 sneaked a puck around the Lowell goalie with a minute left on the clock. Regulation time ended with the two teams in a tie and the game went to a shootout. After the first three skaters from each team finished the first shootout in a tie, the referee bumped the overtime period to sudden death. MIT eventually won 5-4 in the sudden death shootout, but not before thirteen skaters were needed from each team to break the tie.

The players on the MIT team who scored during the shootout were Mani, Christina Gehrke '99, and Herman. Kaplan more than proved herself against the 13 skaters from the Lowell team by allowing only two of them to score. "It was here that the MIT team proved its depth over the other team," said Cynara Wu G. "We were able to produce ten strong skaters for the shootout. They had several really talented young women, but then they had others who could hardly stay up on their skates."

The team will be playing their last game of the season against their own alumnae at the rink in the Johnson Athletic Center on Saturday at 2 p.m..



AJAI BHARADWAJ—THE TECH  
Charles Morton G stuff blocks an opponent in Wednesday's match against Roger Williams University. MIT lost 0-3.



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