



Jonathan S. White speaks his mind during a small group discussion entitled, "Is MIT segregated from the dormroom to the classroom?"

Wrongful Death Suit Against MIT Filed By Parents of Richard Guy

By Kevin R. Lang
NEWS AND FEATURES DIRECTOR

The parents of Richard A. Guy Jr. '99 filed a wrongful death suit against MIT, one day before the three-year statute of limitations would have expired.

Guy died from asphyxiation as a result of nitrous oxide intoxication on Aug. 31, 1999, during Orientation. His parents, Richard A. Guy Sr. and Janet V. Guy, both of Mission Viejo, Calif., filed a complaint Aug. 30 with Middlesex Superior Court in Cambridge, suing MIT for one count of wrongful death and one count of wrongful death with gross negligence.

The Guys claim in their complaint that MIT "breached their duty to provide reasonable care, supervision and oversight of students in its dormitories," and thus "MIT's failure to meet its duty of care" contributed to Guy's death.

MIT received an extension until Jan. 21, 2003, to answer the complaint. Daryl Lapp, an attorney for Palmer and Dodge LLP, which represents MIT, said that the answer date was delayed so the two parties could share information.

Lapp declined comment on any specifics of the case or MIT's expected action. "The parties are exchanging information, and during

that period of time ... they are going to have no public comment about the suit," he said.

MIT spokesman Kenneth D. Campbell also declined to comment, as did Guy's mother.

Other parties might be named

The Guys are also suing several persons named as "John/Jane Doe," a method of naming additional, as yet unknown defendants. Three separate such defendants were named, including anyone who might have had some role in supervising Guy at East Campus, where he was a resi-

Guy, Page 17

MIT Getting Millions For Digital TV Deal

By Keith J. Winstein
NEWS EDITOR

MIT will receive \$30 million from Dolby Laboratories, the result of Dolby's selection as the national standard for digital television audio in the U.S. and a subsequent lawsuit settlement.

A crucial vote cast in favor of Dolby by Jae S. Lim '74, an MIT professor of electrical engineering, helped select Dolby as the standard for digital television audio in the United States. Lim cast MIT's 1993 vote in favor of Dolby's technology in the television industry "Grand Alliance" to draft a unified recommendation to the Federal Communications Commission. He is expected to receive more than \$8 million from Dolby's payments to MIT, said Jack Turner, the associate director of the Technology Licensing Office.

TLO says conflict unavoidable

The settlement of a lawsuit over an MIT-Dolby royalty sharing agreement under which Dolby was slated to pay MIT if either's audio system proposal were accepted — that is, if Philips Electronics' competing "Musicam" system were rejected — placed Lim in the unusual position of receiving millions of dollars from Dolby partly as the result of having voted in favor of Dolby's system, over Musicam and MIT's own system, on a technical advisory committee to draft the industry's unified recommendation as part of a government-run national standardization process.

"There's clearly a conflict of interest," Turner said, but "it can't be avoided. MIT's reputation as

being pure ... in its academic evaluation of things is very important."

MIT was one of four votes on the Grand Alliance Technical Oversight Group, charged "to pick the best technical solution for the Grand Alliance system." Dolby did not have a vote and was not a member of the committee, although its audio system was under consideration for selection.

MIT says money not an influence

In what MIT spokesman Kenneth D. Campbell later characterized as MIT's official comment, Professor Alice P. Gast, the vice president for research, said Lim and MIT's financial stake in the outcome of the Grand Alliance process did not influence the government's standardization of digital television.

"I can see how it would be perceived as a conflict of interest," Gast said. But the Grand Alliance "wasn't a decision-making body," it was a group of companies joining together, at the request of the FCC, to make a unified proposal, she said.

"Faculty are often asked to provide advice based on their technical expertise in technical issues," Gast said. "No one from MIT was advising Jae Lim on his role in this."

Peter Fannon, then the director of the FCC's Advanced Television Test Center, echoed her remarks. "It made no difference to the [FCC television committee] what individual business deals these guys made," he said, because the FCC later evaluated the Grand Alliance's proposal to make sure it was acceptable as the national standard and at least as good as what

Dolby, Page 15

New 8.02 to Incorporate TEAL Teaching Techniques

By Beckett Stemer
STAFF REPORTER

Starting this spring, Physics II will leave its old lecture format behind for a new teaching style modeled after the Technology Enabled Active Learning (TEAL) version of the class offered in the fall.

The following spring, the Department of Physics intends to merge 8.02X, currently the experiment-based version of the class, and the new 8.02 into one subject. They also plan to introduce a new version of Physics I (8.01) in a similar format that will eventually replace the old 8.01 as well as 8.01X and 8.01L.

Professor of Physics John W. Belcher, who will teach the new 8.02 this spring, said of the new format, "there's a lot of interest in using technology in education." He said that students will no longer be "passively sitting in lecture. It's collaborative learning."

New class hands-on, lab-based

The computer and lab-based style of teaching in 8.02 was originally developed in the TEAL class offered in the spring of 2001. The TEAL program itself came from a pilot program at Rensselaer Polytechnic Institute known as "studio physics" that

allowed for more direct teacher to student contact. Currently, all students who take 8.02 in the fall take the TEAL version.

The new 8.02 will not be held in Room 26-100, the large lecture hall where the traditional lectures were held, but will move to Room 26-152, known as the TEAL room. Students will sit in round tables of approximately seven students each and will work on in-class lab experiments with the assistance of a faculty member, a graduate student, and several undergraduates.

"I think a lot of the people who were taking 8.02 wished they had a hands-on experiment," said Thomas J. Greytak '62, a physics professor and associate department head for education.

Grade based on participation

One of the more radical shifts is that part of students' final grade will be based on participation in class. Each seat at a table will be equipped with a keypad device with which students will be expected to answer questions posed during class.

Professor of Physics J. David Litster, who is currently teaching the TEAL class, said that by expecting to students to partici-

Physics, Page 13



MICHAEL LIN—THE TECH

(Left to right) John R. Rebula '06, Jin C. Xu '06, Professor of Physics Michael S. Feld, and Caroline D. Jordan '06 troubleshoot a Physics II (8.02) in-class experiment.



An interview
with UA
President
Josiah Seale.

Page 9



Comics

Page 6

OPINION

Ken Nesmith reflects on the
incompatibility of democracy and
capitalism.

Page 5

World & Nation 2
Opinion 4
Events Calendar 8
Features 9
Arts 11
Sports 20

WORLD & NATION

Ashcroft Approves Prosecutors For Sniper Trial in Virginia

THE BALTIMORE SUN

When Attorney General John Ashcroft on Thursday selected two Virginia prosecutors to hold the first trials in the Washington-area sniper attacks, he chose veteran lawyers well-acquainted with the death penalty and high-profile cases.

Robert F. Horan, the top prosecutor in bustling Fairfax County for the last 35 years, has handled dozens of major cases, including the conviction of a Pakistani who is scheduled to be executed next week for killing two and wounding three in 1993 outside CIA headquarters in Langley.

Paul B. Ebert has been Prince William County's top prosecutor as long as Horan, and has tackled his share of homicide trials, sending more people to death row than any other commonwealth's attorney in Virginia.

Even with their experience, Horan and Ebert have never faced such a challenge. Their every move will be dissected by legal experts, and millions of people will be hanging on each courtroom motion and maneuver to see what happens to the defendants in one of the nation's most notorious serial killing rampages.

Pelosi, Frost Battle It Out For House Minority Leader Post

THE BALTIMORE SUN

WASHINGTON

House Democrats, in the wake of the party's Election Day losses, are bracing for a heated and potentially divisive contest between two of their highest-ranking officials, Nancy Pelosi and Martin Frost, for the mantle of minority leader.

House Democratic Leader Richard A. Gephardt, tarnished by his party's defeat in Tuesday's elections and pondering a run for president in 2004, announced Thursday that he will step down from the top minority post when the new Congress convenes in January.

His decision opened the way for a vigorous leadership battle between liberal party whip Pelosi of California, and Frost of Texas, the moderate chairman of the House Democratic Caucus. Pelosi is regarded as the favorite in a race to be decided Nov. 14.

Gephardt's retreat follows his fourth consecutive failure as minority leader to seize control of the House from Republicans in a national election.

It is the first clear consequence of the turmoil foisted upon the Democratic Party following Tuesday's midterm elections, in which it lost ground in the House and Senate, and made fewer gains than projected in statehouses around the country.

Bush Considers Immunizing Soldiers With Smallpox Vaccine

THE WASHINGTON POST

WASHINGTON

President Bush received a recommendation Thursday from Defense Secretary Donald Rumsfeld to inoculate U.S. troops against smallpox but did not immediately accept it. One White House official said the Pentagon had not answered many of the president's questions.

"There's a lot of issues on both sides," the official said. "He's concerned not just about whether to do it, but how you do it. You don't want to do it if you can't do it right."

Another official compared Bush's contemplation about the issue to last year's agonizing over whether to allow federal funds to be used for research on stem cells from human embryos, since the issues involved are so grave and Bush is considering them so carefully.

The question of whether to immunize U.S. forces is part of a larger dilemma that includes whether to vaccinate civilian health care workers and, eventually, the general public.

Wording of Iraq Resolution Agreed Upon By U.S., France

By Karen DeYoung and Colum Lynch
THE WASHINGTON POST

WASHINGTON

President Bush and French President Jacques Chirac agreed Thursday on final wording for a United Nations Security Council resolution on Iraq, clearing the way for a vote on the measure Friday and the possible dispatch of weapons inspectors to Baghdad within weeks.

Bush said in a news conference that the resolution, which required nearly eight weeks of administration arm-twisting, cajoling and concessions, met all his specifications. "It talks about material breach and inspections and serious consequences if Saddam Hussein continues to defy the world and not disarm," he said.

A Chirac spokeswoman said that there was a "positive dynamic" during a telephone call Chirac placed to Bush on Thursday morning and that France now hoped for consensus among the council's 15 members.

The administration believes that Russia will also ultimately support the resolution, although Bush apparently failed to cement a similar agreement during a call he made

to President Vladimir Putin. A senior official said the administration has concluded that Russia will not abstain, and there is "not much chance" it will veto the measure.

Despite the lingering uncertainty over Moscow, Bush expressed confidence he was on the verge of achieving the goal he set out in a Sept. 12 speech to the United Nations — making the international body "relevant" by forcing it to confront Iraq's obstruction, and rejection over the past four years, of resolutions since 1991 ordering weapons inspections and disarmament.

"It took a while, but we've been grinding it out, trying to bring a consensus, trying to get people together, so that we can say to the world the international community has spoken through the Security Council of the United Nations: 'And now, once again, we expect Saddam to disarm,'" Bush said.

Bush said he was "optimistic that we'll get the resolution vote" on Friday. Passage requires nine of 15 council votes, and no veto by any of the five permanent members — the United States, Britain, France, Russia and China. Foreign Secretary Jack Straw, of Britain, the

staunchest U.S. backer on the council, told reporters Thursday that his government was willing to wait until early next week if that would help achieve a unanimous vote.

Syria, the one council member widely considered a definite "no" vote throughout the negotiations, said Thursday night that the United States had failed to incorporate several changes proposed by Damascus, including an offer to reward Iraqi cooperation with an easing of economic sanctions. Syria's deputy U.N. representative Fayyad Mekdad made a final appeal to the council to delay a vote until Monday so that Arab foreign ministers meeting this weekend could be briefed on the text, saying "it is very, very difficult, if not impossible, for us to take part in the voting tomorrow."

But U.S. officials said Bush wanted to go ahead, and a council meeting was scheduled for 10 a.m. Friday.

Although China has raised concerns and remained publicly non-committal on the resolution, Beijing said Thursday that "on the whole, we believe the new resolution takes into consideration some of the concerns and worries of other countries."

Al-Qaida Adapting Its Tactics Too Fast for U.S. to Keep Pace

By Thomas E. Ricks and Vernon Loeb
THE WASHINGTON POST

WASHINGTON

The U.S. military is losing momentum in the war on terrorism in Afghanistan because the remnants of al-Qaida and the Taliban have proven more successful in adapting to U.S. tactics than the U.S. military has to theirs, the chairman of the Joint Chiefs of Staff said this week.

Gen. Richard Myers also said that there is a debate taking place within the Pentagon about whether the United States needs to change its priorities in Afghanistan and de-emphasize military operations in favor of more support for reconstruction efforts.

"I think in a sense we've lost a

little momentum there, to be frank," Myers said in after-dinner comments Monday night at the Brookings Institution. "They've made lots of adaptations to our tactics, and we've got to continue to think and try to outthink them and to be faster at it."

Myers, the nation's top military officer, suggested that it may be time for the military to "flip" its priorities from combat operations aimed at hunting down remnants of al-Qaida and Taliban fighters to reconstruction in Afghanistan, a notable shift in priorities for a Pentagon that has eschewed nation-building exercises.

The CIA, in a recently released assessment, called security "most precarious in smaller cities and some rural locations" and said: "Reconstruction may be the single most

important factor in increasing security throughout Afghanistan and preventing it from again becoming a haven for terrorists." Afghan President Hamid Karzai recently launched an anti-corruption campaign aimed at cracking down on provincial leaders who continue to challenge the authority of the country's central government.

Myers issued his call for faster and more flexible approaches in the counterterrorism war a day after the United States conducted an air strike in Yemen using an unmanned aircraft. A CIA-operated Predator drone on Sunday attacked a vehicle believed to be carrying six al-Qaida members with Hellfire missiles, obliterating the vehicle and its passengers.

WEATHER

Warm, Dark, and Dry

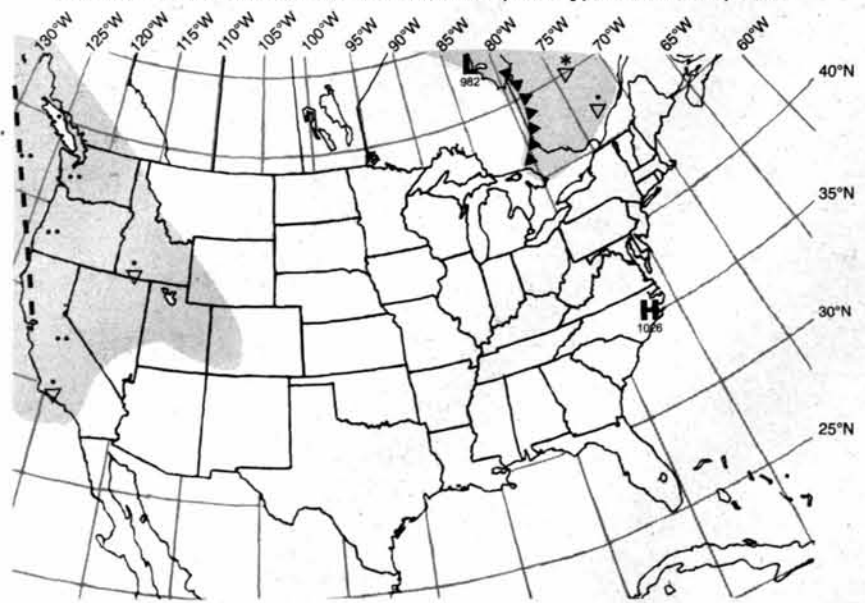
By Robert Lindsay Korty
STAFF METEOROLOGIST

With the sun setting progressively earlier and unseasonably cold temperatures across New England during the past couple of weeks, it has felt as though winter arrived prematurely. In fact, the high temperature in Boston has been at or below normal every during the past three weeks. (The normal high for today's date is 55°F (13°C).) With a powerful storm continuing to move eastward into the western Atlantic, a ridge of high pressure is building over the eastern United States in its wake. As the jet stream has retreated northward into Canada (if only temporarily), temperatures should peak above normal levels each day this weekend. Enjoy!

Extended Forecast

Today: Sunny and breezy. High 55°F (13°C).
Tonight: Clear. Low 45°F (7°C).
Saturday: Sunny. High 62°F (17°C).
Sunday: Mostly sunny. High 62°F (17°C), low 48°F (9°C).
Monday: Partly cloudy, chance of showers. High 62°F (17°C), low 52°F (11°C).

Situation for Noon Eastern Standard Time, Friday, November 8, 2002



Weather Systems	Weather Fronts	Precipitation Symbols	Other Symbols
H High Pressure	- - - Trough	Snow	Fog
L Low Pressure	— Warm Front	Light	Thunderstorm
S Hurricane	▲▲▲ Cold Front	Moderate	Haze
	▲▲ Stationary Front	Heavy	Compiled by MIT Meteorology Staff and The Tech

Gephardt Blames Election Loss On Bush's Influence, Popularity

THE WASHINGTON POST

WASHINGTON

House Minority Leader Dick Gephardt (D-Mo.) said Thursday that Democrats would have lost more House seats Tuesday if he and other party leaders had tried to nationalize the election around the future of President Bush's tax cut, and argued that Bush's post-Sept. 11 popularity and the presidential megaphone simply overwhelmed the Democrats' domestic message.

On the day he announced that he won't seek another term as House Democratic leader, Gephardt also blamed Tuesday's results — in which Republicans made history by capturing control of the Senate and gaining House seats in a president's

first midterm election — on the GOP's superior financial resources rather than any failure by Democrats to offer a clear alternative message.

"In this election, the determinant in my view was quite simply 9-11 and George Bush's popularity and the country being in a very sensitive condition vis-à-vis their own security and their own safety issues," he said during an interview in the Capitol office he will soon relinquish.

Gephardt's decision to step down as party leader in the House was widely interpreted by other Democrats as a first step toward a probable 2004 presidential campaign that could pit him against former vice president Al Gore, Senate

Majority Leader Tom Daschle (D-S.D.) and others. Gephardt, however, declined to engage on that subject, saying, "I haven't figured it out at all. I do not know what I'm going to do."

He said he generally agreed with Gore, who said Wednesday that the magnitude of Democratic losses this week required a "major regrouping" by the party. But Gephardt offered no clear direction for the party, saying he wanted more time to reflect.

"We need to meet, we need to talk, we need to listen to one another," he said. "We need to evaluate what we've been doing and what we've been saying and what our vision is and what our ideas are and what our thinking is."

U.S. Citizen Among Those Killed In Yemen Predator Missile Strike

By Dana Priest

THE WASHINGTON POST

WASHINGTON

A U.S. citizen was among those killed in the pilotless missile strike on suspected al-Qaida terrorists in Yemen Sunday, administration officials confirmed Thursday, adding a new element to an attack that reflects the evolving nature of the U.S. war on terrorism around the world.

Ahmed Hijazi and five other suspected al-Qaida operatives were killed by a five-foot long Hellfire missile shot from a remote controlled CIA Predator aircraft as they rode in a vehicle 100 miles east of the Yemeni capital, Sanaa.

Hijazi held U.S. citizenship and was also a citizen of an unidentified

Middle Eastern country, a senior administration official confirmed. He was not born in the United States, but resided here for an unknown period of time, the official said.

With him in the vehicle, according to Yemeni and U.S. government officials, was a senior al-Qaida leader, Abu Ali al-Harithi, who is suspected of masterminding the October 2000 attack on the USS Cole.

Hijazi's citizenship highlights the different approaches pursued simultaneously by the administration as it wages its war on terror. In some cases since Sept. 11, American citizens have been arrested and afforded traditional legal rights in the criminal justice system. In others, they have been

captured and held indefinitely in military brigades as "enemy combatants." Now, at least in Hijazi's case, a citizen has been killed in a covert military action.

Additionally, Hijazi was killed in a country considered at peace with the United States.

It was unclear whether the CIA operatives who fired the missile from hundreds of miles away knew that an American citizen was among their targets. It also was unclear whether that would have made any difference.

The administration, working with the authority of a presidential finding that permits covert actions against Osama bin Laden's al-Qaida terrorist network, considered al-Harithi and his traveling party a military target.

Catholic Church Hires FBI Official To Monitor Abuse Policies

THE BALTIMORE SUN

The highest ranking woman in the FBI has been hired to police the Catholic Church as it enacts policies aimed at preventing a repeat of the sexual abuse scandal this year that removed hundreds of priests and undermined parishioners' trust.

Kathleen McChesney, 51, who has led the agency's efforts to improve relations between federal and local law enforcement, was named Thursday director of the U.S. bishops' Office of Child and Youth Protection.

The creation of the office was a key part of the sexual-abuse policy adopted by the bishops in June and revised last week by a joint committee of bishops and Vatican officials. The bishops will vote on the revised policy next week in Washington.

At a news conference Thursday at the Washington headquarters of the U.S. bishops' conference, McChesney drew a parallel between the crisis in the church and recent scandals that have beset the FBI.

"I believe the Catholic Church has suffered because of acts of a few. I come from an institution where we have suffered for the acts of a few," she said.

Turnout High in Referendum On Gibraltar Sovereignty

THE WASHINGTON POST

GIBRALTAR

Most of this British territory's more than 20,000 eligible voters turned out Thursday to cast ballots in a referendum on Britain's plans to share sovereignty with Spain. Final results were not expected until early Friday, but local officials predicted that an overwhelming majority would vote no to any power-sharing arrangement.

Voters included about 600 absentee residents casting ballots by mail from London, and a dozen inmates at Her Majesty's Prison, who were allowed to vote inside the facility.

To demonstrate this enclave's near-universal rejection of any change in their British status, many shops and apartments hung Union Jack flags and many residents sported red-and-white T-shirts, hats and flowered lapel pins. Even dogs were draped in the red-and-white Castle and Key flag of Gibraltar.

The ballot-counting Thursday night was turned into a carnival-like spectacle, with a giant screen set up in Gibraltar's main square to carry a live broadcast of the 12 ballot boxes arriving one by one, in taxicabs, at the counting center.

The referendum complicates the next move of British Prime Minister Tony Blair, who has wanted to settle the Gibraltar issue this year and see it removed as a lingering sore point in relations with Spain, a fellow member of the European Union. Several members of Blair's Labor Party are here as observers, urging the government to respect the wish of the Gibraltarians to remain British.

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The Reality of Freshmen On Campus

This is the first year in MIT history where all freshmen are required to live on campus, but while the practice is new, the idea is not. The Potter Report of 1989 proposed mandatory on-campus housing for freshmen, but student outrage kept off-campus doors open to freshmen. When the idea surfaced again, student voices could not be heard over the din from beyond MIT.

Editorial

The administration must now realize that it has been fooling itself, and others, about preventing another alcohol-related fatality with mandatory on-campus housing for first-years. Despite the new policy, freshmen are still living in fraternities, and there is nothing the administration can do about it.

After Scott S. Krueger '01 died following a pledge party with heavy drinking, housing freshmen on campus seemed more attractive than ever to the MIT administration. President Vest himself wrote to Krueger's parents when MIT settled their lawsuit, saying, "Scott's death galvanized us to action. It impelled us to greatly intensify our consideration and accelerate our actions with regard to alcohol, our housing system, and other issues of student life and learning." He was talking, in part, about freshmen on campus. On a Web site entitled "What MIT Has Done to Curb Alcohol Abuse," the phrase "Freshman on Campus" is a prominent item. A committee studying dangerous drinking endorsed the move as a step toward providing a safer environment for freshmen. Whenever questioned by the media about making MIT a safer place — which happened regularly in the years after Krueger's death — the administration almost always cited freshmen on campus as a key initiative.

In the new Rush, freshmen join fraternities and independent living groups a few weeks into the semester. Did the administration honestly believe that freshmen, after pledging, would never set foot in their fraternities for parties or overnight stays? Most fraternities have empty beds, and since MIT is paying them 80 percent of the fixed cost of those beds, why not invite freshmen over to stay at the house?

The administration's logic regarding dangerous drinking and freshmen on campus seems to be this: Scott Krueger died from drinking in a fraternity. Scott Krueger was a freshman. If

freshmen are not in fraternities, they cannot die from drinking in fraternities.

The flaw in the administration's logic is that you cannot keep freshmen out of fraternities, no matter where they live on paper. Fraternities have parties, and freshmen are friends with upperclassmen regardless of brotherhood. MIT can not possibly expect to ban first-year students from setting foot off-campus, let alone enforce such a draconian rule. Who would come to a university with such a policy? Moreover, did administrators really believe that there would be no pledge parties for freshmen? Surely the Institute has not forgotten already that Scott Krueger died after a pledge party.

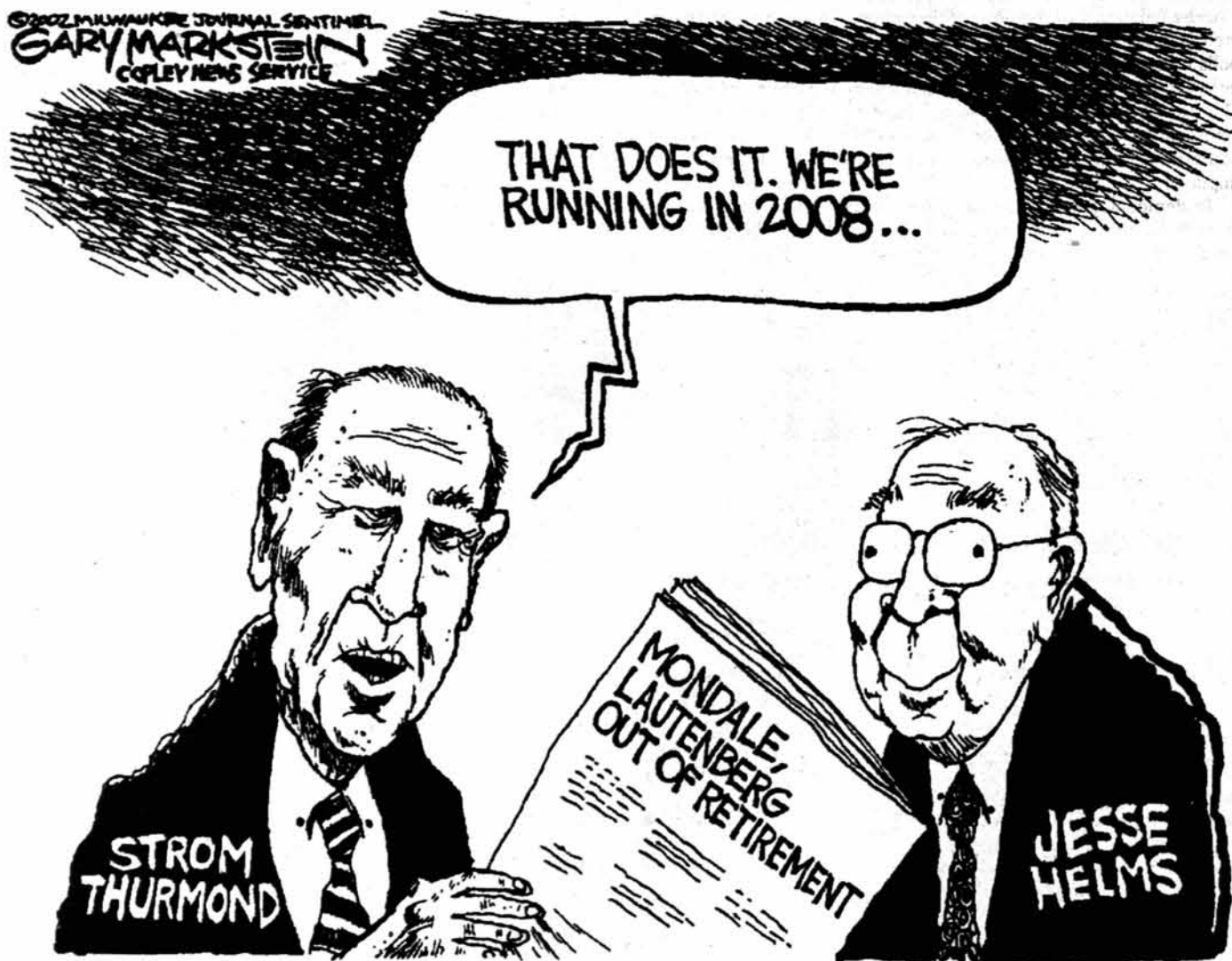
A dormitory room might provide refuge from an alcohol-soaked pledge incident, but it is naive to rely on dorm rooms down the road or across the river for safety.

While the administration can justifiably tout some of the benefits of housing freshmen on campus, it can no longer claim that keeping freshmen "officially" in dormitories will prevent another irresponsible underage drinker from dying. Administrators might consider delaying the pledge period until the end of freshman year, or even the beginning of sophomore year. However, this delay would not physically remove freshmen from fraternities, nor would it provide an environment conducive to the pledge numbers MIT so desperately needs to comfortably house all its students.

In truth, the best ways to prevent another Scott Krueger from appearing on the cover of *Newsweek* are what MIT has been doing all along — enforcing a more responsible alcohol policy, educating students from their first day on campus, and setting a good example through the residential advisor program. Certainly, there is more to be done, but the administration needs to be honest about how the campus scene has changed since 1997 — just ask any alumnus from the Class of 2000 or earlier what "work hard, party harder" really used to mean.

Is the MIT community stronger now that freshmen live on campus? Perhaps, but only time will tell. Is MIT completely safe from another Scott Krueger incident with freshmen living in dorms? Hardly — the administration must face facts and be honest about the reality of housing freshmen on campus.

GARY MARKSTEIN
COPLEY NEWS SERVICE



Opinion Policy

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Dissents are the opinions of the signed members of the editorial board choosing to publish their disagreement with the editorial.

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

Letters to the editor are welcome. Electronic submissions are encouraged and should be sent to letters@the-tech.mit.edu. Hard copy submissions should be addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m.

two days before the date of publication.

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

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Democracy vs. Capitalism

Ken Nesmith

The *New York Times* reported Monday that both the Republican and Democratic Parties have created fundraising arms at the state level that exploit a loophole in the McCain-Feingold Campaign Finance bill. With these fundraising mechanisms in place, both parties say that they will be able to continue to accept the large soft-money donations targeted by the bill without interruption. As of this development, the bill is completely ineffectual, and we're left wondering how many politicians who supported this bill did so despite the fact that its impotence wasn't uncommon knowledge in congressional circles.

McCain-Feingold was to be a step towards reducing the influence of wealthy special interests in national politics, but its failure illustrates the near impossibility of doing so. The problem at the core of campaign finance reform is that democracy and capitalism are, in their pure forms, fundamentally incompatible.

Placing checks on democracy in the form of inviolable individual rights protects us from various tyrannies of the majority, and placing restrictions on the freedom of capitalism balances the philo-

sophic beauty of the system with the reality of necessarily limited freedoms. The current structure allows citizens to encourage politicians to make decisions that may violate the freedom and sovereignty of individuals. Those decisions can be encouraged or coerced either by the wealthy through massive donations, needed by politicians to maintain their powerful positions, or by the masses through the threat of eviction from office at the next election. The result is that the wealthy and the masses stamp upon each other's interests in different ways. A minuscule percentage of our citizens fund the vast majority of the government's bloated operations, demanded at the polls by a majority of citizens, and that same percentage uses its influence to obtain favorable regulation and rulings, be it related to environment, investment, labor laws, or other sometimes vital restrictions of capitalist impulses.

In democracy, we make collective decisions about how to use the government's powers and who will guide their use. Though not a

socialist behemoth, our powerful government is also distant from the philosophically pure government put forth by libertarianism. It does much more than defending the nation and upholding the rule of law. It has the power to violate individual rights for the sake of the public good by disproportionately taxing the populace and redistributing their money to those with less money. This violation obtains at least minimal justification thanks to distortions stemming from inherited position and wealth that leave unworthy, unthoughtful, and undeserving citizens with control of huge sums of unearned wealth that simply grows unattended.

Further justifications are that although it is not morally right, it is practically useful for the government to redistribute wealth in this way. Regardless of whether or not it is just that the wealthiest one percent of our citizens fund 26% of the operations of the government, our system is such that a majority bloc of voters has the power to extort arbitrary sums of money from the wealthy for whatever they choose.

The government also has the power to restrict and regulate the behavior of businesses. Once so decided, everyone must abide by the decision. In capitalism, each individual is free to enter into an agreement, be it a purchase, or a sale of labor, only if they so choose.

However, the limited vision of economic agents means that these freely made choices can have disastrous consequences and costs that are impossible to represent in the cost structures of these transactions.

These are actions which regulation must address in order, to be quite extreme, to preserve life on earth. Take a hypothetical analysis of global warming: it is a reasonable scientific possibility that as man-made carbon dioxide concentrations rise, the chance that the earth will suddenly enter another ice age rises dramatically. In making a decision of whether or not to take actions that will raise CO₂ levels, we are not economically encouraged to account for that chance, but instead examine cost of gas as our only price signal. The blunt hand of government regulation can forcefully create mechanisms here that do indeed limit freedom by affecting that price signal or even more clumsily restricting emissions, but also may protect the future of all life. These policies, if made reasonably and with the support of strong scientific evidence,

are quite justifiable, and quite necessary.

Sometimes, of course, government makes silly regulations that unnecessarily hinder progress and development. A ban on human cloning, made arbitrarily and based in no small part upon a fundamentalist Christian worldview, might be one such regulatory restriction of freedom. OSHA regulations also tend to fall in this category. The wealthy, should they choose, have the power to purchase away these regulations. This happens all the time as big business lobbies aggressively to shift subtle policies that, properly crafted, bring them huge profits.

The leaders who spend the skimmed wealth of the nation are ideally held ultimately accountable to voters, and if a majority disapprove of their behavior, the sum of their rational decisions will lead to that leader's eviction. This doesn't always work out so well for a couple of reasons: firstly, all the candidates may suck, and be under similar influence of lobbyist wealth or populist demands, so that a good choice cannot be found. Secondly, "rational choice" is influenced by designed advertisements. The result is that the candidate who spends the most money, obtained from wealthy special interests, generally wins an election.

So the system's a mess — dramatic revelation, I know. But what's important is that it's not just an incidental mess; it's a philosophical mess. Capitalism respects the power of human freedom and defends that freedom of the individual from restriction and incursion.

At the same time, democracy empowers any majority to destroy such freedoms, as democracy grants the collective the power to destroy the individual for its own purposes; likewise, it allows individuals to purchase decisions affecting the masses for better or for worse. Democracy sanctions equality; capitalism sanctions freedom. This freedom leads directly to inequality, even in affairs of democracy. When opponents of campaign finance reform decry that it is a limitation on free speech, they clearly reveal how much they respect the equal rights of all individuals to speak.

Of course, when implemented in practice, democracy and capitalism go together nicely enough, thanks to their mutual respect for basic freedoms. Their conflict becomes relevant when we begin to examine means of reforming the ability of wealth to determine national politics. It's not easy. Money will flow through every crack available. There's no reason to stop trying, though. Hopefully this latest loophole will be closed quickly.

Are You Cheesy?

W. Victoria Lee

If I were to ask you if you consider yourself "cheesy," what would you say? You'd probably say no, pointing out that you don't listen to the boy-band love songs over and over again until you know all the words and also that you don't use up a boxful of tissues crying while watching formulaic romantic dramas. But do you? Are you cheesy but just too embarrassed to admit it? Being cheesy might not be as bad as you think.

People generally associate the word "cheesy" with the words "lame," "cheap," and "cliché." But more often, people just use the word to label anything they deem over-sentimental, sappy, or maudlin. Besides referring to anything made out of cheese, the word can also be used to describe anything inferior or shoddy. Indeed, when we say a song or a movie is cheesy, we don't only accuse it of the crime of being overused and commonplace; we despise it for being downright inferior.

Have you ever noticed that the usual victims of this derogatory term are always associated with love and similar sentiments, be they prosaic "boy-loves-girl" ballads or corny "mom-loves-kid" movies? Are these really worse than song lyrics rife with foul language and movies with either bullets and blood flying across the screen or supernatural beings harassing the earthlings?

We seem to be more accepting of badly written songs, movies, or books when they refrain from sentimental themes. We might not like them, but we don't label them "cheesy." Although there are just as many mediocre or

With so many almost identical boy bands singing the same love songs, I don't blame the public for tagging every sentimental creation "cheesy." But why are we so afraid of being moved or touched in the first place?

even substandard songs, movies, and books as there are cheesy ones, as long as they're about something novel or even strange, we're willing to give them a try. Academy Award winners and top five box office leaders also generally have unusual themes and plots. Many explore social problems, historical events, or human psychology. The acclamations are often well deserved and rightfully given, but you just won't easily find a simple love story or family-oriented movie at the top of the list.

On the contrary, as soon as a song, movie, or book is branded cheesy, most people quarantine it because touching them will spread the disease of sentimentality. With so many almost identical boy bands singing the same love songs, and so many movies featuring star-crossed lovers who face numerous obstacles yet still end up together, I don't blame the public for tagging every sentiment-related creation "cheesy." But why are we so afraid of being moved or touched in the first place? Why do we openly praise songs and books for their exploration of human anger and madness but hide our faces when our tears drop from a sad movie in the theater, afraid that our friends will laugh?

One common argument is that tear-inducing movies, books, etc. are cheesy because they are usually impractical and unrealistic. In a world where only the fittest survive, we don't have the time or the energy to deal with soft emotions. Under the pressure of competition, we all strive to be the only one to withstand all struggles and remain dry-eyed no matter how tough it gets. During the transformation into invincible beings, we build an armor around ourselves. Obstacles that come our way are deflected, leaving at most a dent behind. But when something comes right through the steel and touches our heart, we recoil as if electrically shocked.

It is far easier to systematically call cheesy anything that has even the slightest possibility of moving us than it is to separate those that are truly mawkish from those that can truly touch us. Besides, we don't really need much sentiment to make it in the world, so why bother?

We are not just amalgamations of determination, intellect, and drives; we are multifaceted beings, and life would be much more exciting if we could enjoy all sorts of emotions. So next time you are asked if you are cheesy, answer "yes, I am cheesy, but only just enough!"

The African Entrepreneur

Basil Enwegbara

When most African countries became independent during the 1960s, joining the political class was more appealing and rewarding than going into the private sector. So highly educated Africans did not hesitate to go to where the money and the prestige were. It was only those who could not be part of the ruling class that had to make do with being entrepreneurs and capitalists. Even then, it was recognized as the gateway to the political class. In other words, most Africans who moved into the private sector did so with some sense of reluctance, and wanted to join the political class as soon as they could.

It's no wonder that most African entrepreneurs lacked the understanding of what it would take to be successful entrepreneurs, lacking the necessary technical and management skills and the independence and confidence. They lacked consistent personal ambition and willingness to delegate authority for fear of sharing ownership, and failed to form partnerships to pool finance and managerial skills.

If the desire to financially support others is a valid impetus for establishing businesses, African entrepreneurs exaggerated it, as they used it for employing immediate family members and more distant kinsmen. This kind of personal preference for a paternalistic labor system brought severe problems, such as lack of cooperation, pilfering, and low productivity. Another element of African business philosophy that contributed to the failure of indigenous capitalism is the tendency to hand over the business to a son or a family member — even when the training, experience, and passion required were lacking.

The tendency for entrepreneurs to use business profits for luxury purchases — whether for fancy housing, cars, or expensive public donations to demonstrate wealth — caused not only financial problems related to the financing of day-to-day operations but also early collapses and exits from business. Capital shortages, low

rates of return to investment, and poor capital accumulation served as a major barrier to the advancement of business.

Another blunder was the notion that by setting up several small-scale, relatively uncomplicated businesses, entrepreneurs could both expand their assets and still retain close personal control over all their activities. But by shutting out the benefits of growth through concentration, they in fact ended up with total assets of a lower net value than might otherwise have attained. Other obstructive tendencies associated with corruption, governmental hostility and indifference, and endless regulations and bureaucracy at all levels of government also limited the emergence of a strong African capitalist class.

This picture forces one to wonder if all hope is lost. Is there anything that could be done for African entrepreneurs to catch up with their counterparts elsewhere? Or can Africa compete in today's global market without a proven army of entrepreneurs and capitalists? There is no doubt that the present situation is a great concern. But despite the widespread failures and difficulties, the African entrepreneur can emerge from the debris of his own ruin to reclaim his competitive edge in the new global race.

On the part of African governments, they, rather than viewing local entrepreneurs and capitalists as social threats and passive owners buffeted by external forces, should see them as potential creators of wealth as well as potential transformers of the same environment in which they struggle to survive. Governmental leaders who genuinely wish to encourage a productive local capitalistic economy should adopt national development strategies that could generate an

investment climate conducive to long-term business activities. Only such an environment could attract a flow of much better educated professionals, administrators, and technicians into private businesses.

In addition, African entrepreneurs must set high standards of personal achievements and gain intrinsic satisfaction from striving to attain these standards. Not only should they exercise considerable ingenuity and skill and be prepared to take tremendous risks in experimenting with new ideas, but they should also be ready to move away from the present "profit-for-self-and-family" mentality to the "profit-for-business-growth" philosophy.

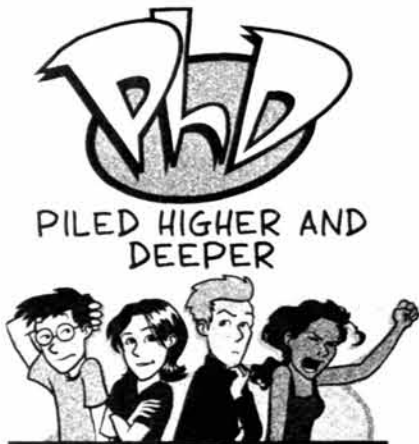
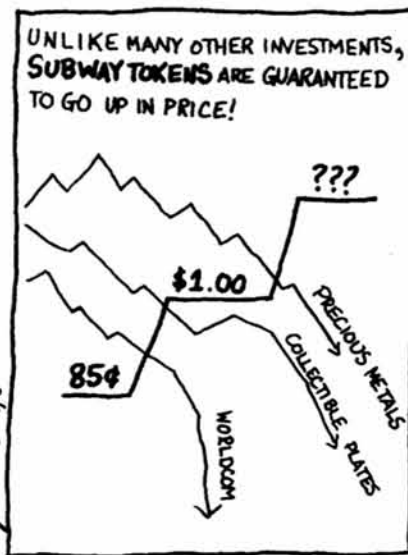
If African entrepreneurs are to have any hope of carving out a leading place in African economy, they must surmount three main hurdles. First, they must utilize higher levels of technology with proper training and specialization. Second, they must obtain greater degrees of organizational competence, and delegate authority and establish more impersonal systems of control. Third, they must establish wide-ranging market outlets based on an elaborate sales network and distribution system.

There seems no reason to doubt that one day a small class of able, determined and probably privileged capitalists will not emerge to impose their will on African economic life in the future. In the meantime, African entrepreneurs and capitalists can at least begin to take advantage of the present political and economic gains emerging from outgrown national limitations. Finally, the African capitalist should no longer be perceived as the bearer of an alien culture instrumental to destroying indigenous cultures. Rather, he should be embraced as a potential mediator and innovator in the process of adaptation.

Despite the widespread failures and difficulties, the African entrepreneur can emerge from the debris of his own ruin to reclaim his competitive edge in the new global race.

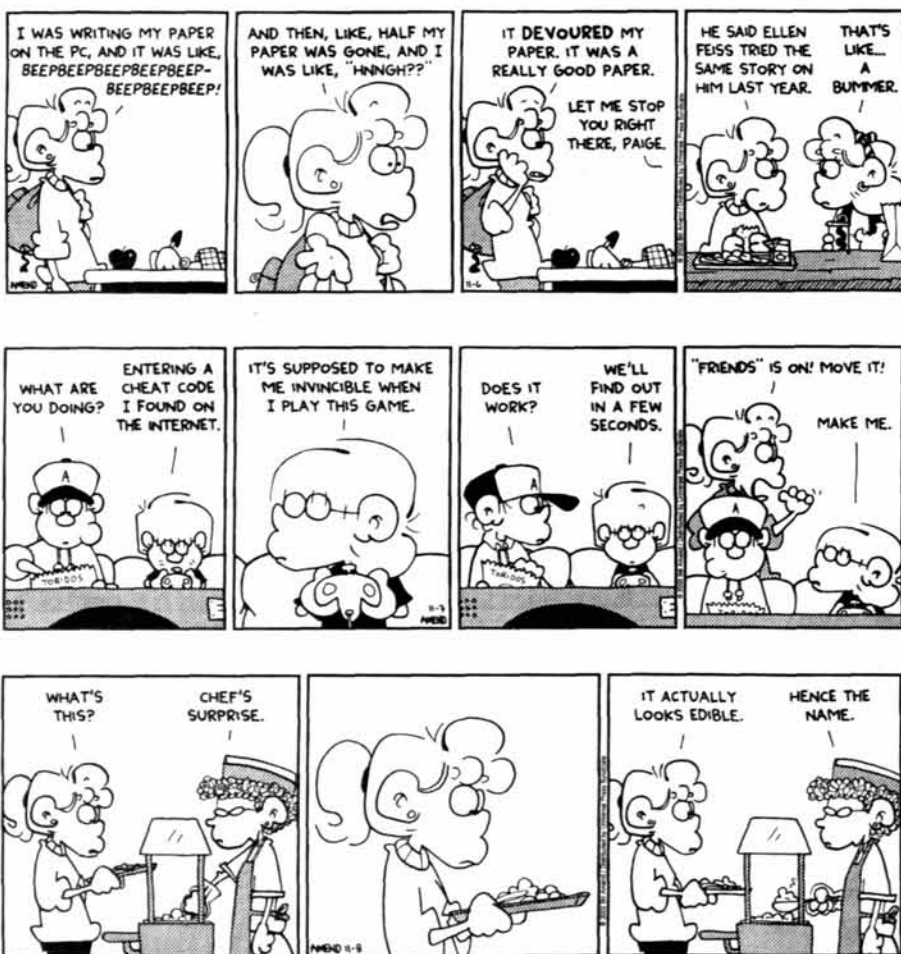
Filler Space

MAKE MONEY FAST!

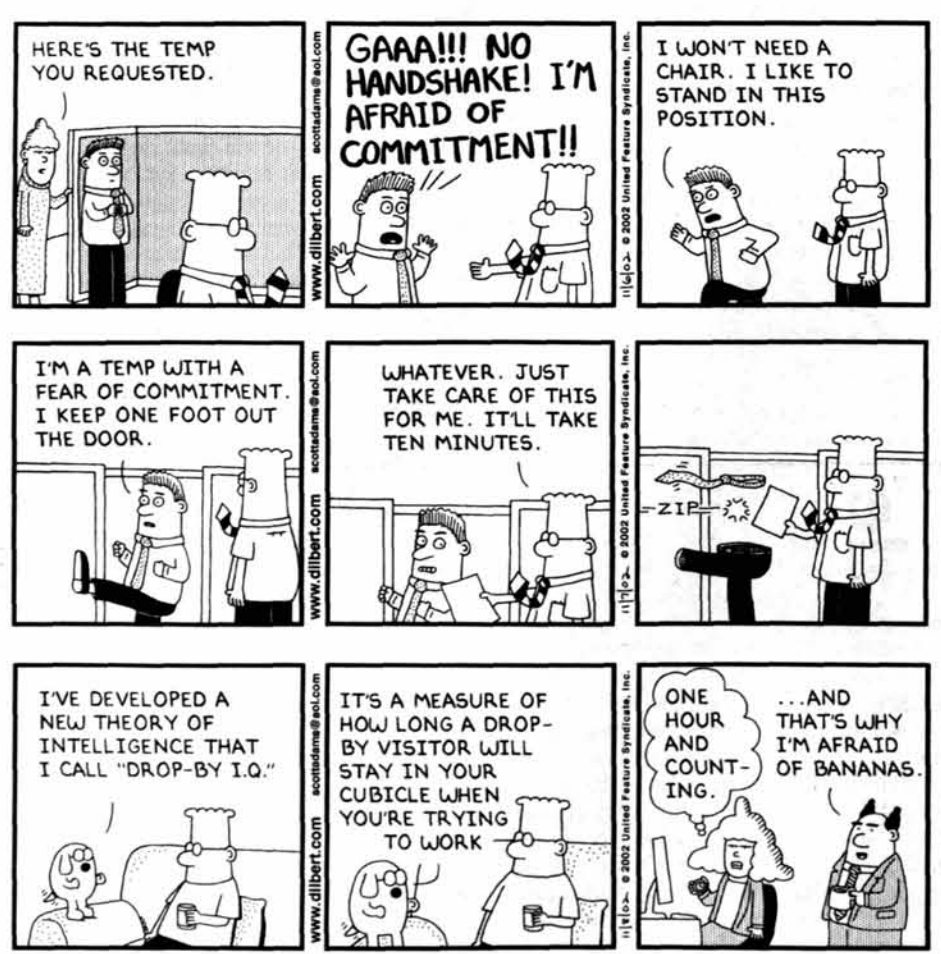


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Liquid Nitrogen Cannon

By Michael Short
COLUMNIST

WARNING: While this trick (unlike all the previous ones featured in this column) does not involve fire, it does involve components that are both extremely cold and moving at extremely fast speeds. Do it in an open area outdoors. Take all proper safety precautions, and don't be stupid.



Materials:

- Tennis ball
- A big stick
- Copious amounts of liquid nitrogen
- Aluminum (or other non-brittle metal) tube*

*Note: Tube must be at least a few millimeters thick and 3 feet long. The diameter must allow the tennis ball to fit inside very snugly. It must also be sealed on one end.

What to do:

The first thing to do is to get the tube. You don't want to use a material that will crack or shatter at the temperatures of liquid nitrogen (around 70 degrees Kelvin, or -203 degrees Celsius).

The tube must be very well sealed on one end, and be able to stand upright on its own. You might want to consider building a base for it or sticking it partially into the ground.

Pour about half a liter of liquid nitrogen into the tube. Shove the tennis ball as hard as you can into the tube, while keeping it away from your face! For God's sake, point it away from everything!

Shove the tennis ball about halfway down the tube with the big stick, and stand back. If you made a good seal, the pressure will build up inside the chamber until it launches the ball hundreds of feet into the air!

Note: This is hard to get right. My record is around three out of ten on this trick. The trickiest part is getting the tennis ball-pipe junction to be sealed off, lest the gas escape and the pressure not build up.

Down the Hatchet

Blame the Gnomes

By Akshay Patil
COLUMNIST

I hate to admit it, but it's the truth. I had always teased others when they confided in me before, but I never knew that one day I would discover that I, too,

Column

had fallen victim to a curse that plagues so many of us. I have an odd number of socks.

As shocking as this may be, I've never actually gone out and purchased an odd number of socks. I always bought sets of sock "pairs" from clothing stores. I've also never thrown away a single sock on its own. According to theoretical mathematics, this would imply that the current state of my sock count is unreachable... an impossibility! Mind-boggling! An extraordinary find! Raise Newton out of the grave, and give Euler a wake up call — have we got a problem for them!

Sadly, the reality of the situation is that somewhere out in this great, vast, wide world, is one of my socks. It could be next door or on the other side of the world. This would imply that at some point, I, uhm, lost it. That's so embarrassing.

You'd think someone with basic competencies would be able to do their laundry without losing an item as simple as a sock. A plain, golden-toed sock. Yet for some reason it happens. Not only does it happen, but it happens often. So often that it's even part of our freaking culture to crack jokes about the missing sock. No one at MIT understands the it's-oh-so-hard-to-program-the-time-on-the-VCR joke, but crack a joke about missing socks and the crowd laughs to the point of tears while gasping, "it's so true! It's so true!"

I even have a very sneaking suspicion that I haven't lost one sock, but instead $(2n+1)$ socks, where n is a positive integer. The problem lies in the fact that I'm a sandals man. My feet need to be free.

Autumn is little more than a prolonged argument

between me and mother nature as she tries to get me to finally put my sandals away and slap on a pair of socks and shoes. As you can guess, during a good two thirds to three quarters of the year, I'm happy as a... penguin, yeah... penguin... a penguin wearing sandals.

My laundry's limiting reagent (that's right, I said it, you know you call it that too) during those care-free times is my skivvies. Socks are not an issue. But come winter (i.e. crappy weather and finals), the great metaphorical chemical process that is my laundry changes nature and my socks define all the stoichiometry.

Part of the problem is that I'm morally opposed to buying socks. Again this primarily stems from the whole sandal philosophy. I'm also not much of a clothing shopper; I swear to you this wouldn't be a problem if tech companies gave away free socks. And if they gave out boxer shorts too, I'd be SET. But free silicon-valley underwear is the stuff dreams are made of... back to reality.

Sometimes I like to sit around and think what my renegade socks are up to. Are they stuck underneath a washing machine, wondering just how long that rinse cycle was supposed to be? Are they backpacking across Europe, seeing the world? Did they get eaten by penguins in Antarctica (because that's where penguins live!)? Maybe they got covered by chocolate and then got eaten by penguins in Antarctica. Yeah, that sounds more plausible.

Wherever my socks are, I hope they're having fun. Maybe they're reading this column... if so, I wish them luck in all of life's adventures and kindly remind them of their abandoned companion who sits lonely in my sock drawer, wishing he/she (side note: it is damn hard to sex a sock) had a mate. So come back sometime, ok? Stay clean, be fruitful, and multiply (because math is fun and baby socks are just so gosh-darn cute).

Recycled Clip Art

By Katie, Kailas, Karen and Jason



"Fuck the flowers, show us your tits!"

The last challenge of a socially conscious society?

Depression strikes millions— indiscriminately. Depression is simply a suppression of brain activity that makes life unbearable. And even though depression is readily treatable, only 1 in 5 ever seeks treatment. Why do so many just drag themselves along or eventually seek relief through suicide? First, there's the lack of awareness of depression— as an illness and as the threat that it is to each and every one of us. Second, there's the unwarranted negative stigma attached to it. You know, the "mental" thing. It's time to collectively face depression. To know it's an illness, not a weakness. And it's a challenge that's long overdue. It's taken too many of us already.

UNTREATED DEPRESSION

#1 Cause of Suicide

For more info, message from SAVE (Suicide Awareness Voices of Education) <http://www.save.org>

This space donated by The Tech

Crossword Puzzle

Solution, page 16

ACROSS

- 1 After, in Arles
- 6 Moroccan port
- 10 Checks out
- 14 Winter hazard
- 15 Twice DXXVII
- 16 Earlier Persian
- 17 Retire
- 19 Barred room
- 20 Marksman
- 21 ___ Hills, IL
- 22 Actress Bo
- 23 Stroke gently
- 24 Newt
- 25 Concerned one
- 27 Daughter of Oedipus
- 29 Bladed pole
- 32 Audibly
- 35 Drawstring handbag
- 37 Inheritance factor
- 38 Western state capital

40 Son of Judah

- 41 Fetch
- 43 Van Halen or Murphy
- 44 Fire flakes
- 45 White Sea arm
- 48 Chemical compound
- 50 Open hostilities
- 51 Bilko or Snorkel, e.g.
- 54 Milo of "The Verdict"
- 56 Growl fiercely
- 58 Darjeeling or Earl Grey
- 59 Thanks ___!
- 60 Septenary periods successively
- 62 Brazen solicitor
- 63 French father
- 64 Fatter than fat
- 65 Protagonist
- 66 Additional

conjunctions

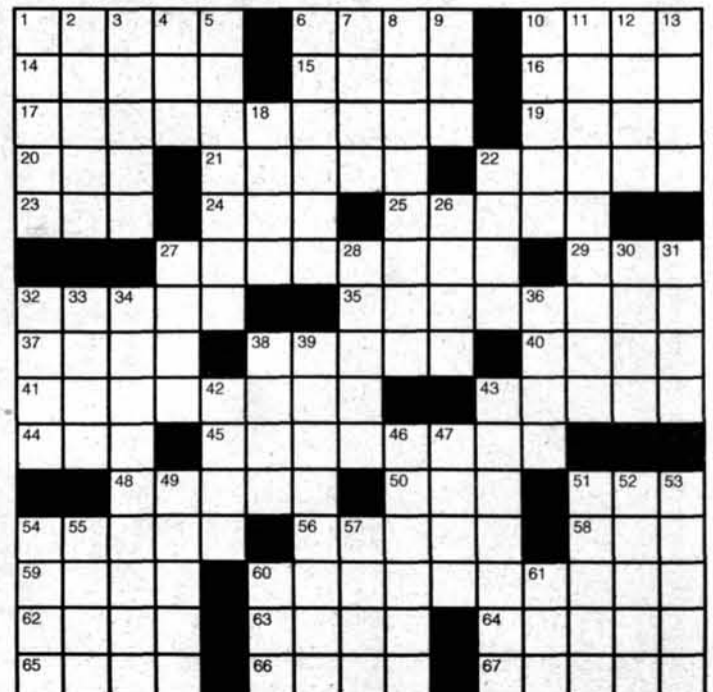
- 67 2000 candidate Ralph

DOWN

- 1 Org. of songwriters
- 2 Come in second
- 3 Sublease a flat
- 4 Marine shocker
- 5 Allowance
- 6 Mosaic pieces
- 7 Ray of "God's Little Acre"
- 8 Complete failures
- 9 Leafy climber
- 10 Host
- 11 All the time
- 12 Margin
- 13 Search for
- 18 ___-Hartley Labor Act
- 22 Three in Berlin
- 26 Poker fee
- 27 Violinist Leopold

28 "Peer Gynt" composer

- 30 Jai follower
- 31 Russo of "Tin Cup"
- 32 Taj Mahal's city
- 33 Dregs
- 34 When the big hand is up
- 36 Buffalo Bill
- 38 Nota ___ (note well)
- 39 Supervised
- 42 Little bit
- 43 Near the beginning
- 46 Rouses from sleep
- 47 Fishhook point
- 49 Brief argument
- 51 Gallant mount
- 52 Formation flyers
- 53 Barker's customer
- 54 Solemn word
- 55 Blackthorn
- 57 Geek
- 60 New Deal agcy.
- 61 Fighters' org.



Events Calendar

Visit and add events to Events Calendar online at <http://events.mit.edu>

Friday, November 8

8:00 a.m. - 5:00 p.m. - Foresight Seminar: "Selling Technology." This 2-day seminar is designed for small high technology businesses, and provides hands-on experience to help get technologies into the marketplace. Presented by Foresight Science and Technology, co-sponsored by the Small Business Administration and hosted by the UMASS Advanced Technology Center, it includes presentations by industry and academic leaders, workshops, one-on-one consulting, and a CD with all conference materials. One of the featured speakers will be Stan Finkelstein, MD, Senior Research Scientist and Co-Director, MIT Program on the Pharmaceutical Industry, MIT Sloan School of Management. \$95 (Materials & lunch for 2 days), \$75 for SBIR/STTR Commercialization Program Awardees. Room: UMASS Advanced Technology Center, Fall River, MA. Sponsor: MIT EntrepreneurshipCenter. (supporting org). Official Sponsors: Foresight Science & Technology, Small Business Administration.

9:00 a.m. - Open Enrollment Period. Open Enrollment period for all faculty and staff to change their 2003 benefits selections. free. Room: Web. Sponsor: Financial Systems Services. Benefits Office.

10:00 a.m. - Admissions Information Session. Admissions Office Information Session gathers at the Admissions Reception Center (10-100). Enter MIT at the main entrance, Lobby 7, 77 Massachusetts Ave (domed building with tall pillars). Proceed down the center corridor to Room 10-100 on the right. Following the Admissions Information Session is a Student Led Campus Tour which begins in Lobby 7 (main entrance lobby) Groups over 15 people need to make special reservations. free. Room: Admissions Reception Center, Building 10, Room 10-100. Sponsor: Information Center.

10:45 a.m. - Campus Tour. Student Led Campus Tours are approximately 90 minutes long and provide a general overview of the main campus. Please note that campus tours do not visit laboratories, living groups or buildings under construction. Groups over 15 people need to make special reservations. Campus tours start at the conclusion of the Admissions Information Session. The Campus Tour begins in Lobby 7 (Main Entrance Lobby at 77 Massachusetts Ave). free. Room: Lobby 7 (Main Entrance Lobby at 77 Massachusetts Ave). Sponsor: Information Center.

12:00 p.m. - 1:00 p.m. - Orientation to Computing at MIT. This seminar provides basic information about the MIT computing environment, presented in language accessible to anyone. Topics include: help resources supported operating systems supported software and recommended hardware the campus network (MITnet and more) security issues and how to address them telephones and voice mail computer-related health issues. Room: N42 Demo. Sponsor: Information Systems.

Events Calendar appears in each issue of *The Tech* and features events for members of the MIT community. *The Tech* makes no guarantees as to the accuracy of this information, and *The Tech* shall not be held liable for any losses, including, but not limited to, damages resulting from attendance of an event. Contact information for all events is available from the Events Calendar web page.

12:30 p.m. - 1:30 p.m. - Biological Frontiers Seminar Series. "Molecular Cell Bioengineering: A Quantitative and Integrative Systems Approach to Design of Improved Biomolecular Therapeutics" with Dr. Douglas Lauffenburger. All seminars in this continuing series take place at Whitehead Institute's McGovern Auditorium, 9 Cambridge Center (corner of Main & Galileo, near the Kendall Square T stop), Cambridge. free. Room: Whitehead Institute's McGovern Auditorium, 9 Cambridge Center (corner of Main & Galileo, near the Kendall Square T stop), Cambridge. Sponsor: Biology, Whitehead Institute.

2:00 p.m. - Admissions Information Session. free. Room: Admissions Reception Center, Building 10, Room 10-100. Sponsor: Information Center.

2:45 p.m. - Campus Tour. free. Room: Lobby 7 (Main Entrance Lobby at 77 Massachusetts Ave). Sponsor: Information Center.

3:00 p.m. - 4:00 p.m. - E34 Chem Oceanography Seminar. Konrad Hughen, WHOI. free. Sponsor: E34 Chemical Oceanography.


4:15 p.m. - 5:15 p.m. - Some Fine Catalan Identities. Refreshments will be served at 3:30 PM in Room 2-349. free. Room: Room 2-338. Sponsor: Combinatorics Seminar, Department of Mathematics.

7:00 p.m. - 12:30 a.m. - Anime Club showing: Rah-Xephon, Azumanga, NieA. Watch a selection of new and classic animation from Japan, as well as take advantage of our extensive library of Japanese animation. Tonight: Rah-Xephon (an enigmatic, stylish exploration of the giant-robot theme), Azumanga Daioh (the wildly popular comedy about a set of high-school friends), NieA_7 - comic stories from the other side of the crater from the creators of Serial Experiments: Lain. free. Room: 6-120. Sponsor: Anime Club, MIT.

7:00 p.m. - Austin Powers in Goldmember. An evil contortionist from the past, who likes to eat his flaking skin and paint men's private parts gold, has kidnapped Austin Powers' father. Austin must now consult Doctor Evil, whom he has caught and had imprisoned, in order to rescue his dad. But Doctor Evil escapes from prison, and intends to use a newly-built device to melt the polar icecaps, flooding the world's cities. Will Austin, with the help of beautiful seventies agent Foxy Cleopatra, be able to find his father and save the world? Rated PG-13 for sexual innuendo, crude humor, and language. \$3.00. Room: 26-100. Sponsor: LSC.

7:00 p.m. - 11:30 p.m. - Diwali Nite. Multi-course Dinner (Indian) followed by cultural programs, dance and fashion show. MIT Student-\$10. Room: Walker-Morss Hall. Sponsor: Sangam. ARCADE.

7:30 p.m. - Murderous Maids. The Papin sisters are sent out into the dehumanizing world of domestic service, and little by little their repressed emotions become more volatile. After the sisters develop an incestuous relationship, they begin to fear discovery and a heart-wrenching decision is reached. Based on the true story, which gripped France like the Lindbergh kidnapping gripped the U.S., of the sisters who killed their employer and her daughter in the 1930s. \$3.00. Room: 10-250. Sponsor: LSC.





THE PHOENIX PROJECT

Shifting from Oil to Hydrogen With Wartime Speed

Making America Energy Independent and Pollution-Free

Rated 5 Stars by Amazon.com Reviewers

Author Harry Braun
H2Pac Chairman


Because of the exponential nature of the problems and solutions that are now evolving, we are rapidly approaching either a nanotechnology utopia of "biochips" and "designer genes," that will eliminate aging and disease, or an oblivion scenario of mass-starvation as global food production systems fail. The outcome may depend on how quickly a shift from fossil fuels to hydrogen occurs, and as such, *The Phoenix Project* book and video explains how this "transition of substance" can be implemented with wartime speed. According to author Harry Braun, 10 million one-megawatt wind powered hydrogen production systems would make the U.S. 100% energy independent of all fossil and nuclear fuels. Given that 17 million vehicles are made each year in the U.S., the 10 million wind units should be built and installed within 5 or 10 years. Millions of Americans will be employed as the U.S. is transformed into a Saudi Arabia-class energy exporter and every automotive vehicle is modified to use hydrogen, the only "universal fuel" that is non-toxic, safer than gasoline, inexhaustible and pollution-free.

The Phoenix Project:
a 384-page book with over 180 illustrations. The VHS video documentary is 45 minutes

HYDROGEN POLITICAL ACTION COMMITTEE
Tel: (602) 977-0888 Fax: (602) 955-5444
The Book and Video are available online at:
www.phoenixproject.net

BMW FILMS.COM PRESENTS

TICKER



A JOE CARNAHAN FILM

NOW PLAYING

"TICKER" WITH CLIVE OWEN / DON CHEADLE / F. MURRAY ABRAHAM

IN A FILM FROM BMW OF NORTH AMERICA, LLC IN ASSOCIATION WITH RSA USA INC. AND FALLON WORLDWIDE

MUSIC BY CLINT MANSELL EXECUTIVE PRODUCERS TONY SCOTT RIDLEY SCOTT AND JULES DALY DIRECTED BY JOE CARNAHAN

8:00 p.m. - High Society. MIT Musical Theatre Guild's production of the musical retelling of "The Philadelphia Story" with words and music by Cole Porter. \$9, \$8 MIT faculty/staff, sr citizens, other students, \$6 MIT/Wellesley students. Room: Sala de Puerto Rico. Sponsor: Musical Theatre Guild, MIT.

8:00 p.m. - 10:00 p.m. - "Dark Days." HTC Film Series; Film directed by Marc Singer, U.S.A., 2000, 94 mins. Near Penn Station, next to the Amtrak tracks, squatters have been living for years. Marc Singer goes underground to live with them, and films this "family." A dozen or so men and one woman talk about their lives: horrors of childhood, jail time, losing children, being coke-heads. They scavenge, they've built themselves sturdy one-room shacks; they have pets, cook, chat, argue, give each other haircuts. A bucket is their toilet. Leaky overhead pipes are a source of water for showers. They live in virtual darkness. During the filming, Amtrak gives a 30-day eviction notice. What are their options? The Coalition for the Homeless helps negotiate a light-filled solution. free. Room: 3-133. Sponsor: History, Theory and Criticism of Architecture and Art.

8:00 p.m. - Twelfth Night. Directed by Wanda Strukus; music composed by Yan-Yan Lam. \$8, \$6 MIT/Wellesley students. Room: Kresge Little Theater. Sponsor: Shakespeare Ensemble.

10:00 p.m. - Austin Powers in Goldmember. Rated PG-13 for sexual innuendo, crude humor, and language. \$3.00. Room: 26-100. Sponsor: LSC.

10:30 p.m. - Murderous Maids. \$3.00. Room: 10-250. Sponsor: LSC.

Saturday, November 9

9:00 a.m. - Open Enrollment Period.

9:00 a.m. - The Charles River Parklands - Reclaiming The Legacy. This event will feature a distinguished panel of civic leaders, urban planners and commentators in a stimulating and thoughtful discussion of the Parklands' history and its future role in the re-greening of the metropolitan park system. Please come listen and share your thoughts on the future of Boston's "emerald necklace." Panelists will include: Steve Belmont, architect and author, "The City in Full," Robert Campbell, architecture critic, "Boston Globe" Karl Haglund, author of *Inventing the Charles River*, Julia O'Brien, planning director, The Metropolitan District Commission, Betsy Shure-Gross, Executive Office of Environmental Affairs, and Christopher Lydon, Moderator. free. Room: Morss Hall, Walker Memorial. Sponsor: authors@mit, The MIT Press Bookstore. MIT Libraries.

1:00 p.m. - Men's & Women's Swimming vs. Springfield College. free. Room: Zesiger Pool. Sponsor: Department of Athletics.

6:00 p.m. - Atanarjuat: The Fast Runner. Filmed in the barren wastelands of Northern Canada, and using an almost entirely Inuit cast and crew, this unique epic captures the authentic lifestyle of the Inuit people in their melodic language. In this setting, a timeless story of love, jealousy, and revenge is told with honesty, mysticism, and generous helpings of raw meat and raw emotion. Due to the length of this feature, there will be an intermission. \$3.00. Room: 26-100. Sponsor: LSC.

8:00 p.m. - High Society. MIT Musical Theatre Guild's production of the musical retelling of "The Philadelphia Story" with words and music by Cole Porter. \$9, \$8 MIT faculty/staff, sr citizens, other students, \$6 MIT/Wellesley students. Room: Sala de Puerto Rico. Sponsor: Musical Theatre Guild, MIT.

8:00 p.m. - Twelfth Night. Directed by Wanda Strukus; music composed by Yan-Yan Lam. \$8, \$6 MIT/Wellesley students. Room: Kresge Little Theater. Sponsor: Shakespeare Ensemble.

8:00 p.m. - The Boston Trio. Heng-Jin Park Ellsworth, piano; Irina Muresanu, violin; Allison Eldredge, cello and violist Marcus Thompson. free. Room: Kresge Auditorium. Sponsor: Music and Theater Arts Section.

10:00 p.m. - Atanarjuat: The Fast Runner. Due to the length of this feature, there will be an intermission. \$3.00. Room: 26-100. Sponsor: LSC.

Sunday, November 10

9:00 a.m. - Open Enrollment Period.

9:30 a.m. - 11:00 a.m. - Buddhist Meditation and Prayers. Meditation in Buddhist Tradition: sitting and walking meditation followed by chanting. free. Room: Mezzanine Lounge, Student Center. Sponsor: Buddhist Community at MIT.

4:00 p.m. - High Society. MIT Musical Theatre Guild's production of the musical retelling of "The Philadelphia Story" with words and music by Cole Porter. \$9, \$8 MIT faculty/staff, sr citizens, other students, \$6 MIT/Wellesley students. Room: Sala de Puerto Rico. Sponsor: Musical Theatre Guild, MIT.

7:00 p.m. - Austin Powers in Goldmember. Rated PG-13 for sexual innuendo, crude humor, and language. \$3.00. Room: 26-100. Sponsor: LSC.

7:30 p.m. - MIT-Chinese Choral Society 10th Anniversary Concert. Art songs by famous Chinese composers, Taiwanese folk songs, selections from musicals and classical chorus masterpieces presented in dance, chamber chorus, duets and solos. Guest artists: professional Chinese folk dancers from Central Mass Chinese School. Established in 1992, MIT-Chinese Choral Society is one of the most active performing groups among Chinese community in greater Boston area. free. Room: Kresge Auditorium. Sponsor: Chinese Choral Society, MIT.

9:00 p.m. - 1:59 a.m. - MIT v. Harvard Battle of the Bands. Join MIT student bands in competing against Harvard in the first annual MIT v. Harvard Battle of the Bands, featuring: Ten Degree Chill, Polski FIAT, and Friend of Glenn. The winner will be the opening band on stage at an upcoming House of Blues show! Free food/drink provided! All ages show! Will need to show school ID!! Everyone is entered into a raffle to win gift certificates and prizes from various Cambridge restaurants! Free transportation provided by SafeRide to/from Harvard Square for the entire night! free. Room: House of Blues-96 Winthrop St. Cambridge (Harvard Square). Sponsor: Community Development and Substance Abuse Programs. Harvard University, Lesley University, Cambridge Licensee Advisory Board.

10:00 p.m. - Atanarjuat: The Fast Runner. Due to the length of this feature, there will be an intermission. \$3.00. Room: 26-100. Sponsor: LSC.

Monday, November 11

9:00 a.m. - Open Enrollment Period.

9:00 p.m. - 1:00 a.m. - Monday Night Football at The Ear. Watch the game on The Thirsty Ear's big screen TV every Monday night. Tonight: Oakland vs. Denver. Hours: Monday: 9 p.m. - 1 a.m. Tuesday - Thursday: 7 p.m. - 1 a.m. Friday: 4 p.m. - 1 a.m. The Thirsty Ear Pub is located in the basement of Ashdown House. Enter through the courtyard. Must be over 21. Proper ID required. free. Room: The Thirsty Ear Pub. Sponsor: The Thirsty Ear Pub.

FEATURES

Campus Profile — Josiah D. Seale

UA President discusses goals and the legacy he hopes to leave behind

By Eun J. Lee

FEATURES EDITOR

Josiah D. Seale '03 is president of the Undergraduate Association. The Course XVII (Political Science) undergraduate hails from the hometown of Maracaibo, Venezuela and is a resident of Senior House.

The Tech: What's the most interesting thing about you that most people wouldn't know about?

Seale: I wear my life pretty much on my sleeve, so there probably aren't many things that people don't know about me. There's nothing I really try to hide. I speak four languages — English, Spanish, French, and German — and am working on Swahili.

TT: How many units are you taking this semester?

Seale: Not a whole lot since I'm doing the whole [UA President] thing. I'm taking around 30 units.

TT: How many hours a day do you spend in the UA office?

Seale: Oh God. Probably 8 or 9.

TT: What is a typical day like for you?

Seale: Well, that depends. The UAP job is about how much you put into it. I met with the Dean for Student Life this morning. After that, I had a housing strategy committee meeting, and then I met with the Chair of Institute Committee on Student Life. Of course, there were all sorts of e-mails interspersed in there. A lot of the work happens over e-mail.

TT: How would you describe your leadership style?

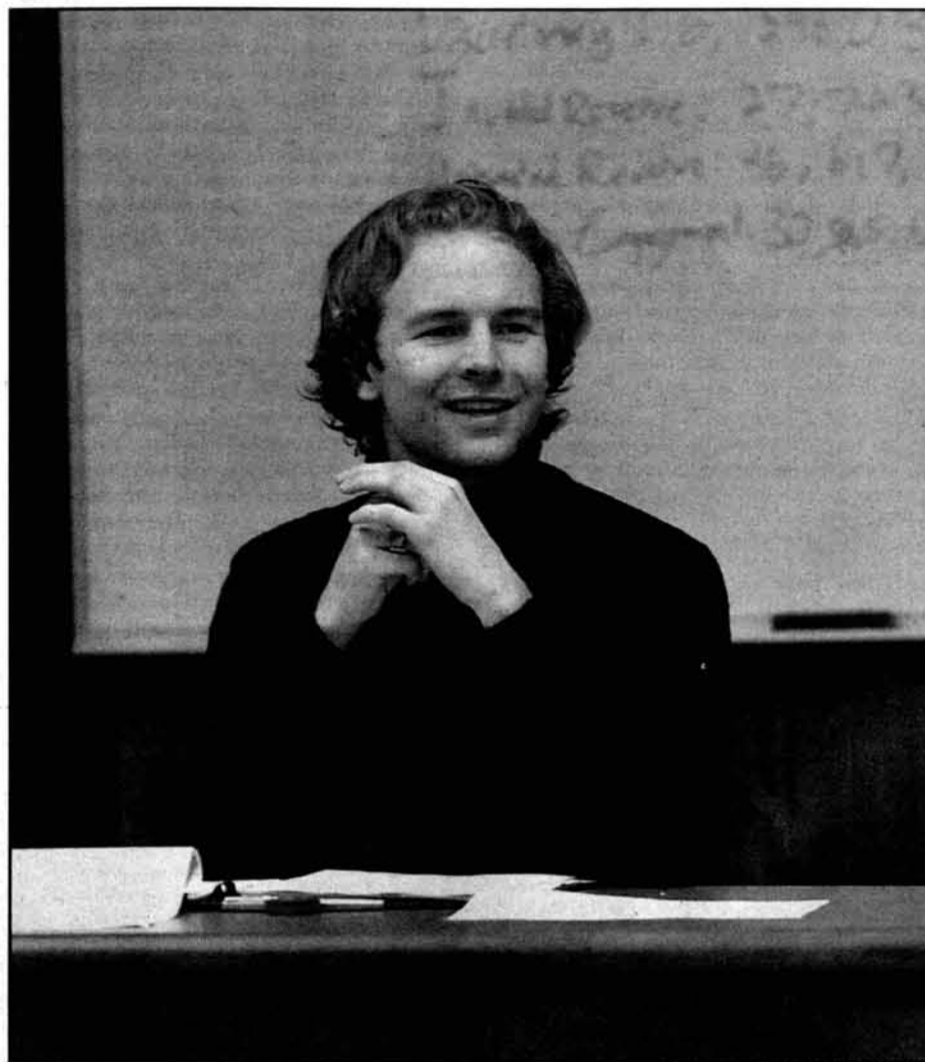
Seale: I would say it's participatory. I try to arouse interest in people for things so it'll be something they'll actually work on. I also try to find people who are interested in getting the job done. A lot of it just really has to do with getting to know the people you work with, matching up people with their interests, and supporting them as best you can.

TT: Do you have any hobbies?

Seale: I try. I'm a big poetry fan. I collect tobacco pipes. I like to rollerblade. I like good wine. I like good food, and I occasionally write reviews as a food critic for *The Tech*.

TT: What are the UA's top goals this year?

Seale: The short term goals include getting more restaurants on the card, working on improving student morale, and other things along those lines. Medium term goals include improving communication between the MIT administration and the UA, and improving the conveyance of this information from the UA to the student body. Students need to know what's going on and how



Josiah D. Seale '03 presides over a UA meeting.

DAN BERSAK—THE TECH

they can get involved. Recently, we've also started talking about better faculty communication.

Longer term goals have to do with looking at broader Institute issues like what is meant by "community building," the core values of an MIT education, and looking at how to attract better students and faculty.

TT: What are the major changes you've seen during your years at MIT, and do you think they've all been for the better?

Seale: We've had a huge shift in the administration in terms of new deans and all sorts of people that are gone. The fact that we have new people means that they are open to new ideas. I also think student morale has improved. By that, I mean that students have started coming out of their rooms a little bit

more, interacting with people, and being more creative, I think.

I think one of the big things that's happened is that we're getting more universities competing for same student and faculty. What we have to say now is, "we are the best, let's stay the best by attracting the best students and best faculty."

TT: How has the UA's role changed in light of recent changes in student life?

Seale: I think the issues have changed, but I don't think the UA's role has changed. We're still out there being advocates and lobbyists for students, figuring out what's working, what's not working, what's out there, and pushing those changes through.

TT: What legacy do you hope to leave as

UA President?

Seale: I've been working with upper level administrators to help identify the core values of an undergraduate education. I've been asking students for years, "what sucks at MIT?" The biggest response I've gotten from students is "the administrative attitude towards students." Everybody has their own idea of what the college experience should look like, but it's really a matter of looking at what the MIT experience should look like. We don't want it to look like that of an upper New York state liberal arts college, or Harvard, or Wellesley, or any of our other "peer institutions."

An MIT undergraduate education by and large means "I learned how to think." Whatever course you get your degree in just means "I learned how to think in terms of course [insert number here]." What others outside of MIT are looking for from [MIT graduates] is that you are able to be analytic, be creative, think differently, and work hard.

What it comes down to is that MIT is trying to encourage creativity, innovation, leadership, responsibility, and challenging the way things have always been done. And so we should try to make sure that everything we do in the name of community building encourages these values. We need to make sure that we're not trying to make people fit into any one mold, but we are trying to encourage these values.

I would like to get a document written somewhere along these lines or get a group of people together to discuss it and come up with a document. That would be a big help for everyone involved to determine what we're all trying to accomplish here together.

TT: Are there any new UA projects in the works that we can expect to hear about in the near future?

Seale: We're helping to analyze the Senior Segue program — seeing what's working and what's not. We're trying to get people involved to evaluate MIT Medical so we can make it better. Hopefully, we'll be having some input in Walker Memorial and Pritchett Dining renovations. We'll also be looking at rush — evaluating what worked, what didn't, and getting a better system up there. We'll also be evaluating everything that happened with A/B/C/No Record next term. Those are a few projects I can think of off the top of my head.

TT: What are your future career goals?

Seale: I like to write. I've thought about law. Maybe teaching.

TT: What's your favorite ice cream flavor?

Seale: Cherry cheesecake.

Student Center to Get DDR Machine

By Brian Loux

NEWS EDITOR

A new addition to the Stratton Student Center Game room will arrive within days. For some, that news is like sunshine on a cloudy day.

By now, most people on campus have been exposed in one way or another to some version of the arcade game *Dance Dance Revolution* (or *DDR*, as it is known to loyal fans).

One of the many "easy to learn, hard to master" games, it challenges players to hit pads with their feet in time with the beats of the musical score. Instantly recognizable are the overdriving techno and dance beats, the myriad of directional arrows flying past the screen, and its embarrassingly overenthusiastic announcer.

Thanks to the efforts of Jeff Wager of J&J Amusements, the vendor who supplies the game room, the game will soon debut on the first floor of the Student Center. Wager said that his company "anticipates installing it in the next few days."

The machine is officially titled *DDR 7th Mix*, which implies certain songs or "stages" will be available on the game, some of which are compiled from other versions of the game. It also goes by the title *DDRMIX2*.

DDR not a student initiative

In the recent past, many of the new games added to the arcade were requested by members of MIT's Electronic Gaming Group. Vice President Chad M. Polycarpe '03 was respon-

sible for the addition of many of the new fighting games in the arcade.

"A year and a half ago I came into contact with Jeff Wager. I like playing fighting games, but I was getting sick of the staleness of some of the games," Polycarpe said. "I asked around and got a hold of him. We brought in *Street-fighter III Third Strike*, *Tekken 4*, and *Tekken Tag Team*."

What is different about the addition of *DDR* is that it was not a student-led initiative. Polycarpe said that he personally mentioned including the game in the future in his meetings with Wager, but did not extensively push it. "I personally do not like *DDR*, but I did realize that many people did," he said.

It turned out that J&J formed their own plans for the game. "The decision to bring in Konami's *Dance Dance Revolution* was made by us several months ago, when we learned the game room was moving to the first floor," Wager said. The additional room would give them the chance to install that machine and more, including the air hockey and pool tables currently seen in the room.

"We didn't discuss *DDR* prior to finding out that it was coming, as we were already able to play [*DDR*] at home," said EGG member Jumaane A. Jeffries '02. He described J&J's decision to purchase the game as a "huge coincidence."

However, getting the machine was easier said than done. *DDR*, while licensed to game maker Konami, is not being produced in the United States. "They are only available from the used market in Asia ... [and] the demand

exceeds supply," Wager said. Luckily for Wager, he was able to find an importer in California. He called the acquisition "very fortunate."

Wager says he is not certain of the location for the system, but that "space should not be a problem."

Student reactions mixed

Reaction to the news was, and apparently remains, more or less mixed. "Some people [in the EGG] actually were not too thrilled about it," Jeffries said. "But there are many, like myself, who are really excited about it. I've been asked constantly about it."

"I think *DDR* is a really fun game," said Priya A. Agarwal '04. "It's a great way to relieve stress and will appeal to a greater number of people."

"Watch out for big crowd of people gathering round and watching people jive to Paranoia with their eyes closed and backs to the screen," said Diana L. Lam '04. Lam also added "this [decision] should have happened two years ago," referring to the first release of the game.

Some of the arcade regulars were not enthusiastic, but expressed their support of the move. "I'm not into that kind of game ... most people play a certain couple of games only," said Pee Seeumpornroj '04, who said that he attends the arcade "almost every day." He said he supported the move, saying "It would add more variety to our arcade games. We only have joystick control games currently."

"Although I did lobby for *Soul Calibur 2*, I think this is a great opportunity for everyone

to show their hottest moves," Jeffries said. Mocking the tone of the announcer of the game, he added, "I'm not quite there yet, but I know I can become a dancing master, because I have friends who are always here for me, who are ready to support my next effort."

Soul Caliber 2 coming soon

The EGG and students still have a say in the future of the game room. Most recently, an initiative to bring *Soul Calibur 2* to the game room has netted success.

"That effort was spearheaded by [Jeffries]," Polycarpe said. "We were talking about the game. The other guys decided that it wouldn't be a good idea to ask him again. I don't want to badger [Wager], and he's a really cool guy. I thought it would be a good idea to make the request a consensus. We decided not to call it a petition because a petition pre-sumes the clientele is not very happy."

Jeffries went around collecting signatures of students who expressed interest in seeing the machine added to the arcade. He said that the initiative for *Soul Calibur 2* had greater support amongst the EGG because it is as of yet unreleased. "The thing for [the EGG] is that *SC2* has not been created for any home systems, so it was much more of a priority for us," Jeffries said.

The campaign was successful. "We have been waiting for a software-updated version that was scheduled for release at the end of October," Wager said. *Soul Calibur 2* should also arrive at the arcade soon.

Don't forget your quarters.

Ask SIPB

STUDENT INFORMATION PROCESSING BOARD

Question: How do I configure my mail program?

Answer: To set up e-mail in any program that is not already configured to do so, you will need the following settings:

Outgoing mail server: outgoing.mit.edu, never use a secure (SSL) connection, no username required

Incoming mail server: poXX.MIT.EDU (where XX is a number). You can find your incoming mail server by entering

```
athena% hesinfo $USER pobox
```

at your Athena prompt. In all cases, it should be set to use IMAP with a secure (SSL) connection. Be sure to tell the mail program not to save your password, so that it isn't transmitted over the network "in the clear." This could cause your account to get broken into.

Question: What are the differences between KPOP and IMAP, MIT's old and new systems for receiving mail?

Answer: KPOP and IMAP are both ways for e-mail clients to fetch e-mail from the servers where it is received. Both are available for use at MIT. KPOP, which uses Kerberos, is older and is only supported by a few programs, such as Eudora. IMAP is more modern and is supported by most e-mail programs.

Aside from program support, IMAP has a number of features over KPOP. With KPOP, clients remove mail from the server when they

read it, so you can only effectively read mail in one place. While it is possible to leave mail on the server, it can cause a variety of problems. IMAP is designed to leave e-mail on the server and read it from anywhere with any IMAP mail client, such as Webmail, Eudora, Pine or Evolution. At MIT, IMAP allows you to store 100 MB of mail on the server.

A variety of e-mail clients are available on Athena and for private workstations. MH has been the standard Athena mail-reading program for years, but many more programs are becoming available. There is no one right program — choosing a mail program is simply a matter of preference for feature availability.

Common characteristics looked for in a mail client include support from I/S, known issues or bugs, ease of use (learning curve), documentation, accessibility, possible travel usage, organization — the list could go on and on. The I/S E-mail page <http://web.mit.edu/is/help/e-mail/> is an excellent source for more comprehensive comparisons and discussions of different clients. Here is a quick look at some of the more popular (and supported) clients that are available.

Evolution

Evolution is a graphical groupware suite that has the same look-and-feel and most of the functionality of Microsoft Outlook. It provides a modern e-mail client, calendar, customizable summary page, contact manag-

er and "To Do" list. By default it is configured to read new mail using IMAP, but can also read old MH mail stored in a home directory.

The main advantage of Evolution is its user interface, which is both easy to use and provides many desirable features over other programs. Some of these features include automatic e-mail filter support, good support for attachments, and GPG integration. Evolution is now the default graphical e-mail client on Athena and can be started by pushing the mail button on the gnome toolbar or by typing evolution at the Athena prompt.

Pine

Pine (Program for Internet News and E-mail) is an easy-to-use, text-only program for e-mail and Usenet news messages. In its default configuration, Pine offers an intentionally limited set of functions geared toward the novice user, but is also highly customizable for the more advanced user. Its basic functions are displayed in the Pine Main Menu. Each function can be selected either by pressing the single-character shortcut key or navigating with the arrow keys. It is easy to learn, starts up quickly, and has features for everyone from novice to wizard.

If you'd like to use Pine, simply type at the Athena prompt:

```
athena% pine
```

Mutt

Mutt is a text-based mail reader popular

among experienced Unix users. It is similar to Pine, though it is less user friendly and often more capable. It is notable for its clean integration of PGP (a mail security package) and MIME attachments. It inter-operates cleanly with all of the other popular mail readers on Athena. Mutt lives in the sipb locker, so to run it, type this in a terminal window:

```
athena% add sipb
athena% mutt
```

A help line at the top of the screen will tell you the keys to type for the most common operations. Most times, you can type a question mark to get more extensive help.

Netscape and Mozilla

Both Athena's default browser, Mozilla, and the former default Netscape, provide integrated e-mail suites. However, neither of these browsers is configured by default to read your MIT e-mail, so you will have to go through the setup wizard the first time you start it up, then go to Edit/Preferences to verify that the settings match those given above.

Webmail

Webmail, available at <http://webmail.mit.edu/>, provides easy and secure access to your e-mail when you're not at MIT. It can be used with pretty much any Web browser, and requires no special software. It is, however, much slower than other methods for larger mailboxes, and less flexible than other mail clients.

Have questions about Athena? Stuck with a program error? Ask SIPB!

E-mail us at <sipb@mit.edu>. We'll try to get back to you, and we might put your question in our next column. If you have a computing problem, new or old, let us know and we'll be happy to help. Visit our Web site at <http://web.mit.edu/asksipb>.

Comparison of E-mail Clients

Client:	Pine	Evolution	Mutt	Webmail
Supported by*:	OLC	OLC	SIPB	Helpdesk
Reads MH Folders:	yes	yes	yes	no
Documentation	Pine release notes/olc stock answers	Help menu within evolution	mutt manual on athena	webmail help
Filtering	none	yes	yes	none
Attachments	yes	yes	yes	yes
Travel Accessibility	< http://athena.dialup.mit.edu >	none	< http://athena.dialup.mit.edu >	< http://webmail.mit.edu >

*Support structures:

CHD — Computing Helpdesk computing-help@mit.edu, or x3-1101 (Mac) or x3-1102 (Windows) questions

SIPB — email sipb@mit.edu or call us at x3-7788

OLC — From an athena workstation, type `olc ask` at an athena prompt. Alternatively, call x3-4435 or send mail to olc@mit.edu.

Gadget Review

Sprint's Vision for the Future

By Kailas Narendran

STAFF WRITER

I'm not one to make sweeping generalities, but I see a change in the winds for what we all call cell "phones." New technology is transforming cell phones from simple channels for voice, descended from the loins of Alexander Graham Bell, to more interactive and emotive channels of communication.

I recently had the opportunity to evaluate the new PCS Vision system from Sprint, along with the Samsung A500 phone. When the two are used in conjunction, they provide new and interesting communication opportunities.

Samsung A500 Phone

Right when I took this phone out of the box, images of Captain Kirk came to my

mind. The phone is almost a replica of the communicator from *Star Trek*. It easily fits in the palm of your hand and has a flip out earpiece and screen. The LCD display is even visible when the phone is closed, providing the time, date and battery and signal information.

In that sense, the phone is almost reminiscent of a techno pocket watch. Opening the phone gives you a view of the brilliant screen. If nothing else, I loved the screen on this phone. It was ridiculously bright and easy to read in all lighting conditions with the touch of a button. The keys are large, lighted, and easy to press. An omni-directional arrow button sits above the keypad.

The reception on the phone is quite admirable. It kept a signal of reasonable strength even as I walked through the most

enclosed segments of the infinite. The battery life was commendable, providing about 3 to 4 realistic days of standby time with changing signal conditions.

The most amusing feature of this phone is the 16-bit sound. You can download custom ringtones ranging from songs to a clucking chicken. I find it amazing that this phone has a close approximation of the multimedia capabilities of my first computer. Integrated into the phone is a scheduler, games and a Web browser.

Unlike with its predecessors, you actually feel like you might be browsing the Web with this phone. The games are full color and sound, and you have the option of downloading new ones. They provide the perfect way to kill time as you sit in traffic, or wait in line to get your drop form in on drop date.

The unit I evaluated came with a camera that could take fair to poor quality, low resolution images (about 400x300 dpi). Once the camera is attached to the unit, the pictures can be uploaded to a Web site for everyone to see. Most of the special features of this phone (pictures, games, multiple ringtones, e-mail, etc.), require a subscription to the PCS Vision service plan.

PCS Vision system

I think PCS Vision from Sprint is a vision of what's to come, rather than what's really here now. It definitely marks a paradigm shift that increases the connectivity of cell phones, really creating a personal communication system. The system utilizes a thin client of a low weight Web browser that runs on the phone, giving the user access to download e-mail, applications, and images.

The interface allows for a lot of functionality from a very small, relatively inexpensive device, since most of the work is done by the server. There are a variety of pricing plans available from Sprint that give you 2MB of data transfer for \$10 on top of the existing plans. That's about 35 images of transfer.

The data rate is pretty slow. It takes about 30 to 45 seconds to transfer one image of file size 40k bytes. You can set the connection to be persistent, but I found that it had to reconnect to the service every time I followed a link.

Sending a meaningful e-mail on the phone is a pain since you have to peck out your words on the alphanumeric keypad. If you need to send an emergency e-mail, it's useful, but there needs to be a better solution before this catches on (like something as simple as an attachable QWERTY keyboard).

The total package

While I think the PCS Vision enabled phones and service are an impressive combo, the entire system has some room to grow. I had a fair amount of trouble actually getting connected to the network on numerous occasions. Since the software component of the handset has been significantly increased, I had to reboot the phone a couple times to fix login errors and connection problems.

The phone I evaluated had an external camera that was focus and flash free. The picture quality was marginal, but that should improve with models that are coming out soon, with real optics and flash integrated into the phone.

I assume that reliability problems will be fixed as the service becomes more popular and time tested. I think the basic concept of a wireless, personal communication system is very exciting, and I can see the potential in this technology.

The cost of the phone is about \$300, and the service is, in most cases, about \$10 more than an existing plan without the PCS Vision option. If you're into cell phones (like a lot of people I know), this might be the thing for you. The phone definitely looks good, is functional, and it is very customizable and interactive, given the PCS Vision connectivity. For more information, check out <http://www.sprintpcs.com>.

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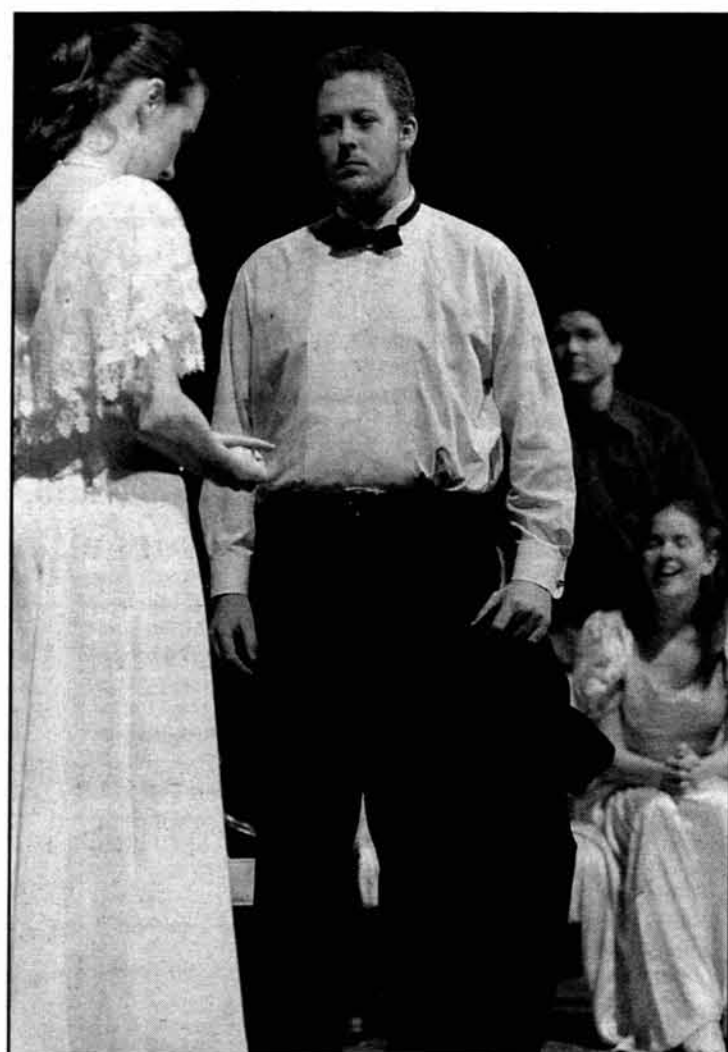
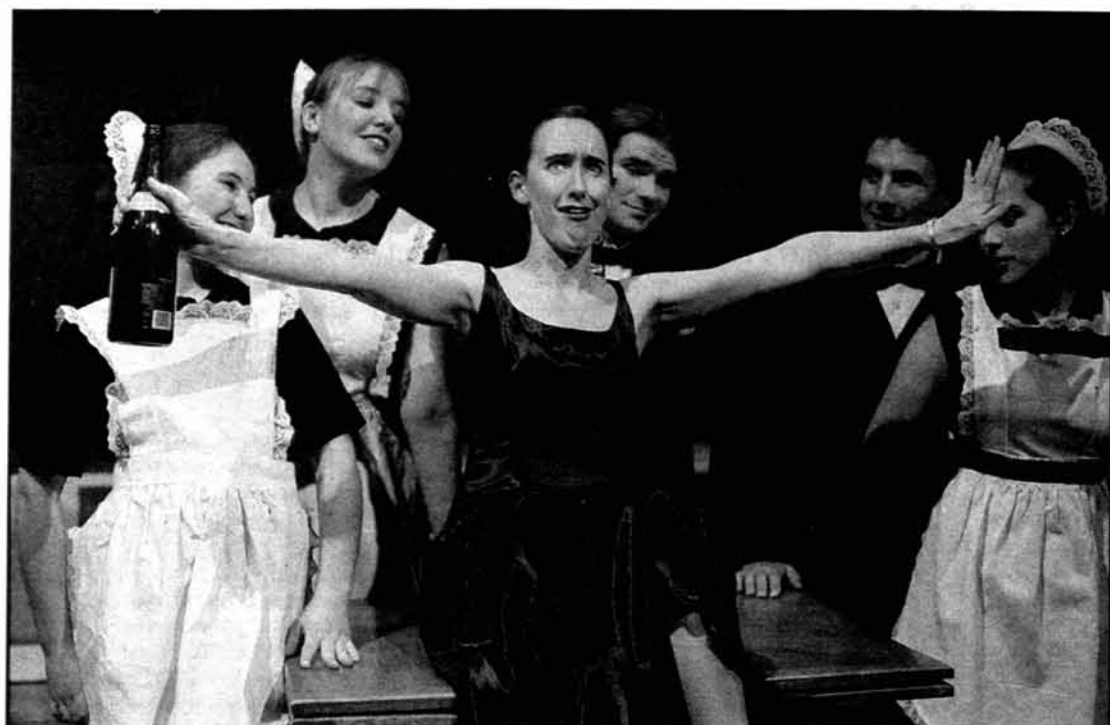
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Living Life in *High Society*



The Musical Theater Guild's Fall 2002 production of *High Society* opens this weekend. Music and Lyrics by Cole Porter
Book by Arthur Kopit

(Clockwise from directly above)

Dinah Lord (Caitlin Q. Marlow '03, left) flirts with C.K. Dexter Haven (Rogue Shindler).

Tracy Samantha Lord (Cinda Lavelly) sings after a bottle of champagne.

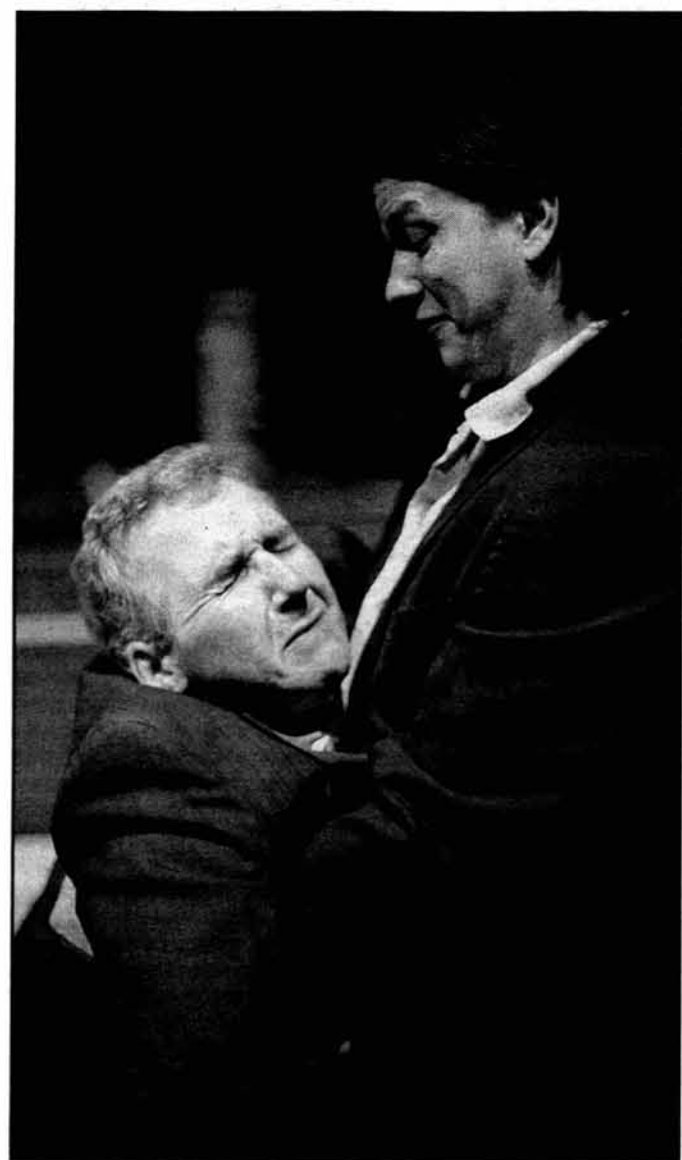
George Kittredge (Arthur G. Fitzmaurice G, right) scolds Tracy Samantha Lord (Lavelly) for her behavior.

George Kittredge (Fitzmaurice, right) sings his love to Tracy Samantha Lord (Lavelly).

C.K. Dexter Haven (Shindler, right) holds up an intoxicated Uncle Willie (Don Hovey).

Spies Mike Connor (Todd Radford G, right) and Liz Imbrie (Eleanor M. Pritchard) infiltrate the Lord Family.

Photography by Aaron D. Mihalik



Student Reaction To TEAL Mixed

Physics, from Page 1

pate, for "the [students] you are failing, it's harder for them to do nothing, and for ones who don't get much value out of recitation, they have interesting hands-on things to work with."

Students' experiences mixed

In general, it appears that students appreciate the addition of more labs and demonstrations, but are also somewhat uncertain about the new participation based teaching format.

Moira K. Kessler '06, who is taking 8.02 this semester, said, "I like that [the professor] has people go in front of the microphone and explain why the answer is that way." She also said, though, that "I kind of wish they would lecture a bit more."

Given the choice between the old 8.02 and the new TEAL-based version, she said "I'd still prefer [the new one] because it has smaller groups and puts lecture and recitation together."

Charles S. Han '05 took the TEAL version of 8.02 last fall and said that he wished they would "tighten it up and make it more challenging." He said that the class was "not quite as rigorous" as the other offerings, but that the labs "gave a better intuitive understanding" of the material.

Thinking ahead to next semester, Brennan P. Sherry '06, who is currently taking 8.01, said, "I think it's probably alright. It'll keep kids involved and let you know how you're doing [in class]." He also said, though, that "I like the lecture format. I don't think [the new format] would improve things."

Course offerings to merge

While the basic versions of 8.01 and 8.02 are changing, both 8.012 and 8.022, the more mathematically-advanced versions of Physics I and II, will be left unchanged and will still cater to students looking for a more rigorous and theoretical approach to the material.

The new versions of 8.01 and 8.02 will each have their own TEAL room, with 8.02 using the current one in 26-152 and 8.01 eventually moving into a new room being built as part of the Stata Center.

Since combining the classes will essentially mean doubling or tripling the previous version's size, as many as four or five sections will be scheduled, each held in the TEAL room at a different time. The total number of faculty teaching 8.01 or 8.02 will stay relatively constant.

In terms of the technical difficulties of using computers in the classroom, Litster said, "I hate to compliment Microsoft, but so far the computers have worked."



JINA KIM

Class of 2006 Secretary Amy R. Lam and Social Chair Kimberley W. Wu discuss possible class activities with fellow freshmen. Freshman class officers held a class-wide forum Monday night to receive direct suggestions for future events. Ideas included a freshman formal and a movie night. This year, the freshman class has been given \$25,000 to spend on planned projects.

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DANIEL BERSAK—THE TECH

Sebastian Ortiz '04 takes aim during the MIT Pistol Fun Shoot held yesterday at the Dupont pistol range. At the event, which will happen again tonight, students could shoot their tests, problem sets, and papers, or they could put holes in an assortment of range-provided standard targets.

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Over \$8M in Dolby Money Going to MIT Professor

Dolby, from Page 1

each individual Alliance member had previously proposed.

Lim declined to comment for this article.

Competitors downplay MIT deal

Other members of the Grand Alliance cited the Dolby system's American roots and its technical superiority over Musicam, not MIT's financial interest in Musicam's rejection, as the likely reasons for Lim's vote.

Philips' Musicam system, also known as "MPEG," is related to the technology used in MP3 audio compression, and is the standard for digital television audio in Europe.

"Jae Lim, independently of any deal, did not want the Philips system to win," said Robert Rast, the leader of the Grand Alliance's Technical Oversight Group, and then a vice president of a firm that was both an MIT partner and competitor, General Instrument Corp.

"Jae was very pro-American," he said. "He would naturally favor an American system over a foreign system."

"Jae knew he supported American solutions, so that deal was consistent with that," Rast said. "If it hadn't been consistent, I don't think Jae would have made the deal."

Lim referenced financial concerns

When in court for the MIT-Dolby lawsuit, Lim said that he voted in part to protect MIT's interests.

"I did not believe that the Dolby system was technically superior to the MIT system," Lim wrote in a court filing. "I voted for the Dolby system to ensure that either the MIT system or the Dolby system would be selected as the winning audio system," he wrote.

Before voting for Dolby in the Grand Alliance, Lim said he called a Dolby employee, Craig Todd, to confirm details of MIT's agreement with Dolby.

"Based on technical merits, MIT could vote for the MIT system and MIT could also vote for the Dolby system," Lim said in court.

"In the event that I do vote for Dolby, I wanted to make sure that MIT's financial interest is covered," Lim said.

In a deposition, Todd described Lim as saying, "if he thinks it's an even contest [between MIT and Dolby technically], he might vote on other issues, I guess nontechnical issues."

Senior Lecturer John Preston, then the director of the TLO and a co-representative to the Grand Alliance with Lim, said financial concerns had nothing to do with MIT's vote.

"I don't think Jae Lim did anything but vote for the best system he could possibly get into high-definition TV," Preston said. "At no time did royalty income or other financial matters impact the decisions or votes made by MIT."

"Any implication that Jae's decisions [were] biased by potential future royalties is totally wrong," he said. "We never cast a vote for a system that did not show itself to be superior based on third party test results," Preston wrote in an e-mail statement. However, Preston continued, "the MIT audio system performed best in the tests, and the Dolby [system] was nearly the same."

"There were lots of ways to make money, and we weren't interested in that," Preston said.

Disclosure necessary, Litster says

Because of the potential for a conflict of interest, Turner said, the matter would likely have been discussed with MIT's vice president for research, which was then Professor J. David Litster. But Litster said he did not recall the matter of MIT's Dolby relationship coming to his attention.

"If the others didn't know about MIT's situation with respect to Dolby, and it's certainly possible they didn't, because I don't think I

knew about it, that might not have been such a good idea," he said.

"You certainly might wonder, is there a temptation to vote for something that would bring more money into MIT as opposed to something else?"

"The real solution is complete and open disclosure so everyone knows what's going on," Litster said.

Indeed, Preston said that MIT made such disclosure to its Grand Alliance partners.

"AT&T, Thomson, Philips, Sarnoff [and Zenith] knew before any vote was taken on the audio system," he said, referring to other members of the Grand Alliance.

However, there was some disagreement among former members of the Grand Alliance on this point.

"It was very closely held information that there was an agreement between MIT and Dolby," Rast said. "It wasn't something that everybody knew about at the time," he added. "It wasn't common knowledge."

"I think the other members [of the Alliance] would have been quite upset" if they had known about such an agreement, said Joel Brinkley, the author of *Defining Vision*, a comprehensive account of the HDTV standardization process, and a reporter for *The New York Times*.

"I was not aware of it, and I was speaking to all of them," he said. "Many millions of dollars were at

stake. The contract for Dolby was one of the best things ever to happen to that company. They are now the audio system for every television that will ever be sold," he said.

Representatives of both of MIT's competitors on the Grand Alliance — a team of Zenith Electronics and AT&T, and another team of Philips, Sarnoff Corp. and Thomson Multimedia — said they did not recall hearing of the MIT-Dolby relationship, which they would have learned of almost 10 years ago.

Group leader praises Lim

"God bless MIT... God bless Lim," said Rast, leader of the Grand Alliance's Technical Oversight Group, after hearing of the Dolby payments. "I can just remember telling people, 'The only one of us who's ever going to make any money out of this is Jae,'" he said. "If you just look at the contribution he made to MIT, I think it's very appropriate and nice that MIT is willing to share that with him."

Rast said he, as a representative of General Instrument, which had proposed Dolby audio to the government, had helped cause MIT and Dolby to make their agreement.

"It was not public knowledge at the time that I was pushing behind the scenes for a deal," he said. "In anticipation of the [Grand Alliance] merger, I had counted noses and realized that we would need MIT's

vote in order for Dolby to win," Rast said.

"So I encouraged the Dolby people to make a deal with MIT" to join forces, with Dolby paying MIT to increase the chances of Dolby winning over Musicam, he said.

MIT won suit, but settled at end

Dolby's payments are the result of a last-minute settlement in April of a lawsuit MIT filed against Dolby in 1997, concerning a dispute over their royalty-sharing agreement.

Despite Dolby's selection as the national standard, Dolby never paid MIT its royalties, citing an ambiguous termination provision of their contract. In 1997, MIT sued Dolby in federal district court in Boston as a result.

After a six-day trial, the jury deliberated and reached a unanimous verdict in favor of MIT, a juror said, but the verdict was never read in court: MIT and Dolby had reached a last-minute settlement.

"[Lim] aroused our sympathy, but he obviously blew it, or else [MIT's] attorney blew it," negotiating the contract, said the juror, speaking on condition of anonymity.

"Our sympathies were very strong with MIT," he said. "We, the jury, felt that justice dictated that the decision should go to MIT, even though the letter of the law and the contract appeared to favor Dolby."

The Tech recently learned details

of the settlement, which MIT and Dolby had declined to disclose, and Turner, TLO associate director, confirmed that Dolby will pay MIT \$30 million over the next ten years.

As part of MIT's policy on technology licensing revenue, Lim, the sole inventor of the technology covered by the MIT-Dolby agreement, will likely receive over a quarter of the Dolby payments, Turner said. Provost Robert A. Brown is still deciding how to distribute the remainder of Dolby's payments to MIT, Turner said.

Dolby offered discount to Zenith

Dolby's selection came after it offered another of the four voting members of the Alliance's Technical Oversight Group, Zenith Electronics Corp., a 25 percent discount on patent royalties in exchange for Zenith's vote, said Craig Todd, a senior member of Dolby's technical staff, in a deposition in the suit.

Zenith subsequently changed its vote on the Oversight Group to be in favor of Dolby, but it is unclear whether Zenith accepted Dolby's offer of a royalty discount.

If so, it would mean that half of the voting members, MIT and Zenith, of the Grand Alliance were receiving monetary compensation from Dolby as a partial result of their vote for Dolby.

Zenith and Dolby declined to comment on the matter.

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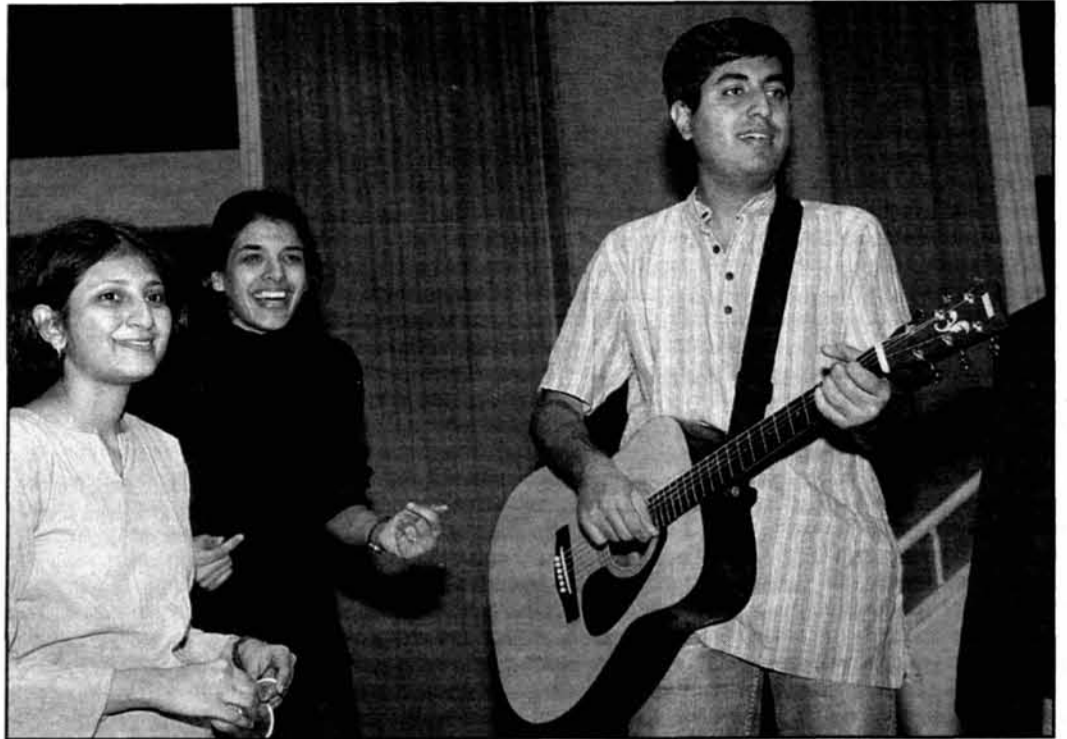
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NATHAN COLLINS—THE TECH

Ashish Kapoor G and friends play guitar and sing at Sangam's Mela, or carnival, Thursday night at the Student Center. Mela is part of Sangam's India Week, which included Bhangra folk dance and ends Friday with a dinner and variety show celebrating Diwali, the festival of lights.

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Solution to Crossword
from page 7

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A	C	E	P	A	L	O	S	D	E	R	E
P	E	T	E	F	T	C	A	R	E	R	
			A	N	T	I	G	O	N	E	O
A	L	O	U	D	R	E	T	I	C	U	L
G	E	N	E	B	O	I	S	E	O	N	A
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Please join us as we celebrate the publication of *Inventing the Charles River*, by Karl Haglund, and the release of the MDC's master plan for the renewal of the Charles River Parklands.

This event will feature a distinguished panel of civic leaders, urban planners and commentators in a stimulating and thoughtful discussion of the Parklands' history and its future role in the re-greening of the metropolitan park system. Please come listen and share your thoughts on the meaning, use, and future of Boston's "emerald necklace".

Panelists will include:

- Steve Belmont**, architect and author, *The City in Full* (Planners Press, 2002)
- Robert Campbell**, architecture critic, *The Boston Globe*
- Karl Haglund**, author of *Inventing the Charles River* (The MIT Press, 2002)
- Julia O'Brien**, planning director, The Metropolitan District Commission
- Betsy Shure-Gross**, Executive Office of Environmental Affairs and **Christopher Lydon**, Moderator

A luncheon and recognition event hosted by the Charles River Conservancy will follow the authors@mit panel event. Please feel free to bring a bagged lunch and stay for this presentation, or for a fee, enjoy a catered lunch and river cruise. For more information or to purchase tickets, please see the Charles River Conservancy's website at:

http://www.charlesriverconservancy.org/projects/Legacy_symposium.html

Inventing the Charles River is published by The MIT Press, 2002.

This event is FREE, open to the public, and wheelchair accessible.

Suit Cites 5th East Drug Use

Guy, from Page 1

dent of Fifth East, anyone who might have allowed Guy access to nitrous oxide, and anyone employed through MIT Medical. The complaint admits that prior to 1999, Guy "had engaged in experimental drug use, and had sought treatment from MIT's medical and health service staff for this problem."

The suit claims that by paying Guy's tuition, room, and board, "included in these payments was MIT's promise, through its student handbook and student registration materials, that it would supervise and oversee its students and, particularly, the student residents of its dormitories."

According to the complaint, "MIT knew or should have known ... that drug use was ongoing" at East Campus, but instead MIT "allowed drug use ... to continue unabated."

The complaint cites "the appearance of the 5th floor, where the walls and ceilings of part of the 5th floor were painted black and light bulbs painted pink and purple" as evidence of drug use on Fifth East. In addition, the complaint alleges that MIT "knew or should have known that [East Campus residents] abused nitrous oxide within the dormitory and kept a canister of nitrous oxide, sometimes referred to as 'the dorm bottle.'"

The suit also claims that MIT did not take "reasonable steps" to secure canisters of nitrous oxide which were on campus "for valid scientific purposes."

No damages named yet

The Guys have not made any claims for damages at this time, in part because they admit in the complaint that "Richard was not blameless in this tragedy." Rather, the complaint requests "the full amount of damages proved at trial, plus punitive damages, interest, costs, attorneys fees and other such relief as this Court deems appropriate."

The Guys are suing under Massachusetts General Law Chapter 229, Section 2, which defines wrongful death by either an act of negligence or by "by willful, wanton or reckless act." The law allows for damages to be awarded for "expected net income, services, protection, care, assistance, society, companionship, comfort, guidance, counsel, and advice of the decedent to the persons entitled to the damages recovered." Guy's parents could be also be awarded burial expenses and punitive damages.

Others charged previously

The suit is the first legal action taken directly against MIT in the Guy case. In September 1999, Susan M. Mosher '99 and Rene A. Ruiz '99 were charged with drug possession with intent to distribute as a result of a Campus Police investigation into Guy's death. Guy was found dead in Mosher's room, Walcott 509.

Based on witness statements, MIT Police obtained a warrant to search Mosher's room, where they found alcohol, marijuana, mushrooms, amphetamines, nitrous oxide, and various drug paraphernalia.

Guy's not first nitrous oxide death

Guy's death in August 1999 was not the first instance of nitrous oxide abuse involving members of the MIT community. In March 1984, Keith T. Ennis '84 died at Tau Epsilon Phi after overdosing on nitrous oxide.

In 1988, Pi Lambda Phi was suspended from rushing freshman for violations including use of nitrous at a pledge party, and in 1991, two electricians working at Lincoln Lab died after using nitrous oxide in their van.

Tech News Hotline x3-1541

MIT Department of FACILITIES CAMPUS CONSTRUCTION UPDATE

Simmons Hall

Some parking in the front of the building will again be made accessible to the public as work continues. Work on the dining areas on the first floor continues.

Vassar St. Utilities

Vassar St. is scheduled to be paved from Mass. Ave. to the west side of the Stata site on Saturday, November 9. Traffic to the Main Group must enter via Mass. Ave. near Building 9.

Stata Center

Construction of tunnel connection from Stata Center to Building 26 will begin shortly. Temporary building enclosures are being installed in preparation for inclement weather. Installation of the below-grade supports for the exterior stairs leading to the raised garden continues.

Dreyfus Chemistry Building

Chilled Water is scheduled to be shut off to Building 18 at 6 a.m. on November 12; service will be restored on December 13. The shutdown is required to allow for the relocation of piping in the sub basement.

Amherst Alley Steam Repairs

A new manhole near the east corner of McCormick Hall is scheduled to be installed on November 4. On November 5, asbestos abatement is scheduled to be performed in this area. This work will take about one week.

Building 7 ADA accessible entrance

Construction of an ADA accessible entrance to Building 7 is underway. Shrubs and trees on the north side of the 77 Mass. Ave. steps (behind the bus shelter) have been removed to make room for installation of this entrance. Shrubs and trees have also been removed from the south side of the steps so that both sides can be replanted in balance upon completion of the project.

For information on MIT's building program, see <http://web.mit.edu/evolving>
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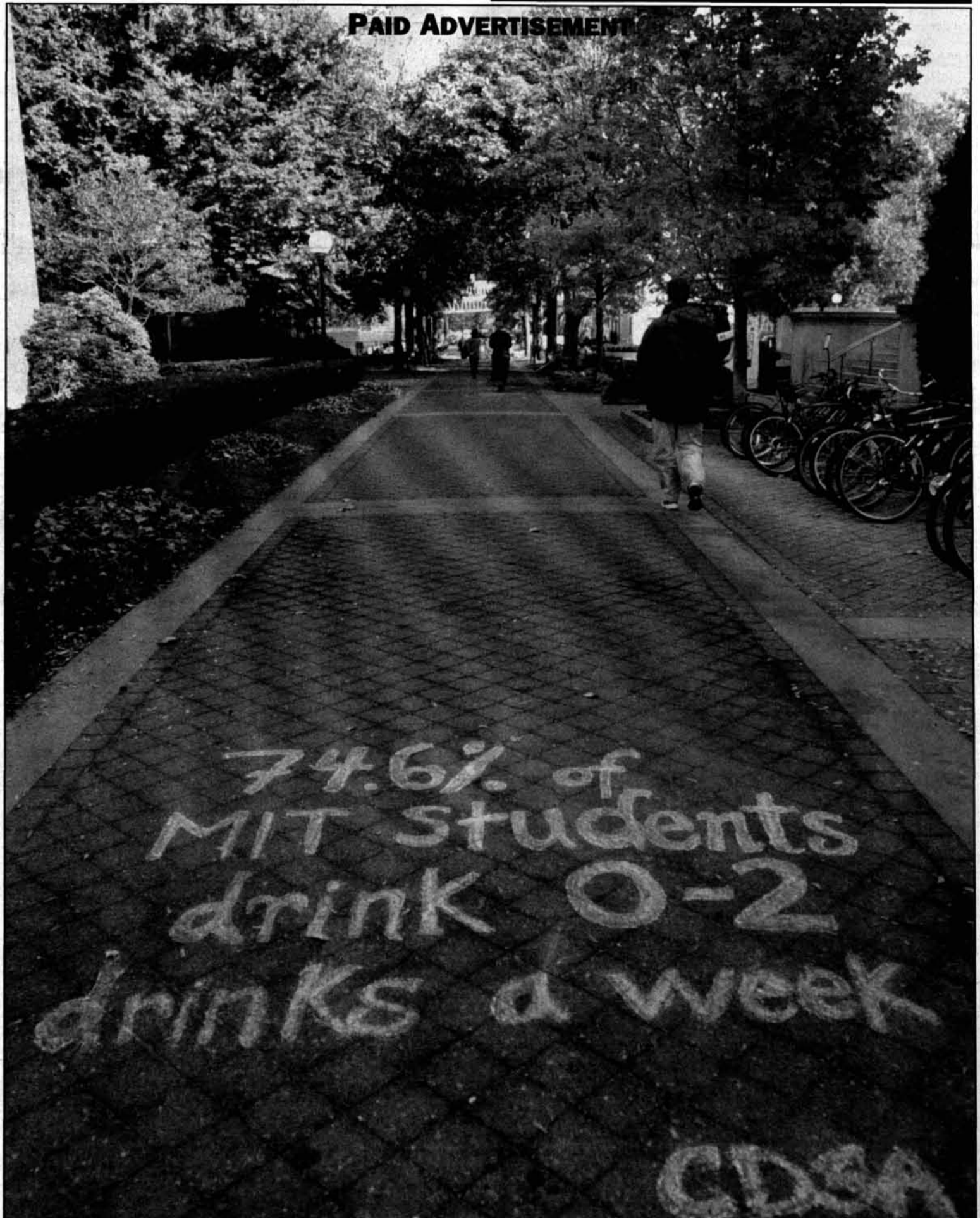


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Ultimate Falls to Brown Alums

Ultimate, from Page 20

to Christina R. Keenan '03 and Kathleen Dobson. sMITe defeated Yale 13-7.

MIT, Swarthmore meet again

MIT kept their intensity up on Sunday when the single elimination tournament began. sMITe's first game was against Dartmouth, who had also beaten MIT earlier in the season. This time, the MIT women turned up their defense, pushed Dartmouth back into their own end zone, and in one quick motion,

Daphna Buchsbaum G scored the first MIT Callahan goal in several years. Christine Dobson continued the scoring by throwing two goals and catching four. sMITe won the game 12-4 and advanced to the semi-finals.

The semi-final round was played against Swarthmore. Hsiang decided that Swarthmore shouldn't get the best of MIT again as she threw four goals and caught one. Amy R. Lam '06, playing her first tournament of the year, was a good mid as she helped to move the disc up the field. Huang's and Eich's five

defensive blocks contributed to the win as well, and at the end of the game, MIT had squashed Swarthmore 10-4.

MIT faced the Brown Alumnae team in the final round. Composed of players from the best club teams in the country, Brown won 15-4 despite sMITe's valiant effort. Cathy Chu '06 put up crazy marks that hindered the experienced Brown players from throwing up the field, but sMITe could not meet the challenge. The Brown Alumnae took the tournament title, while sMITe took home second place.

Determination Wins Close Matches

Soccer, from Page 20

would prove dangerous on a number of counterattack occasions.

Outstanding play by MIT's keeper, Yang, thwarted WPI's attack. The WPI keeper, who was considerably more active throughout the game, was also solid in net and stole back a number of Engineer opportunities.

The game remained scoreless and MIT grew frustrated as, despite domination, they could not convert. Overtime seemed inevitable until, with 20 seconds left, MIT had a throw-in from deep in the WPI end. MIT flooded the penalty box as Monica F. Morrison '04 sent a super-throw arcing towards the goal. Sarah E. Mendelowitz '03 made first contact, flicking the ball with her head. Rebecca E. Clinton '03 worked to gain control of it for MIT but could not get the shot off and so sent it back into the fray.

The ensuing scramble ended

when a shot from Helliwell was deflected off a WPI defender and was met by the formidable foot of MIT's career scoring record holder, Kelli A. Griffin '03. Griffin fired a final and forceful shot to the right corner for the goal. With only three seconds remaining in the game, MIT erupted in celebration. Seventeen seconds of team determination had sealed the win and secured a home seed for MIT. (WPI ended up making the conference tournament anyway, as the eighth seed, due to the results of other conference contests that day.)

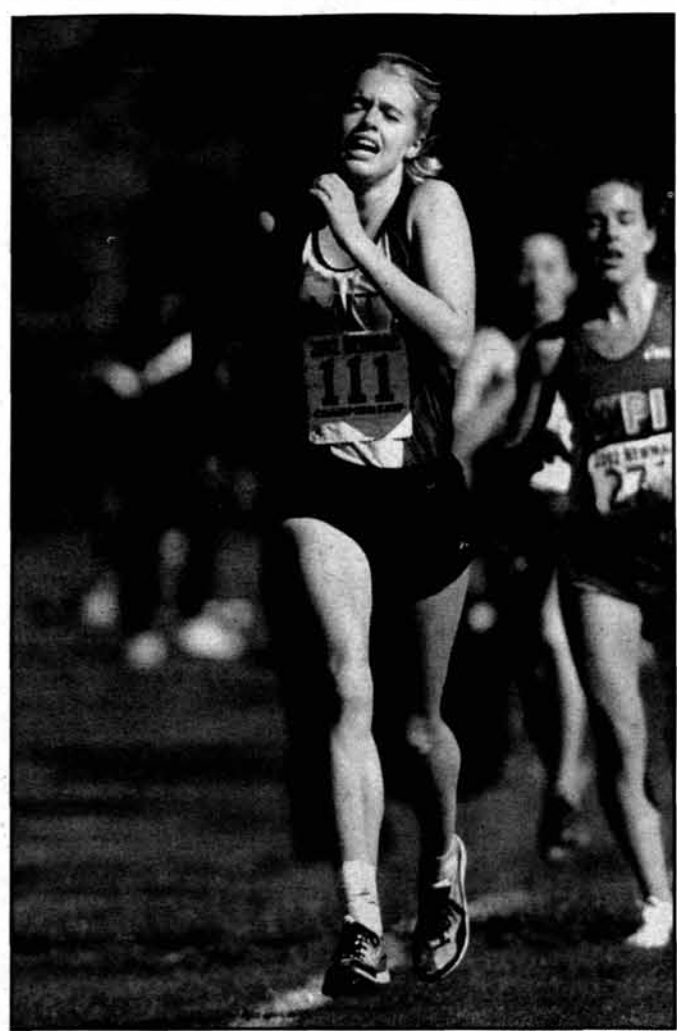
MIT takes Mount Holyoke

MIT's game against Mount Holyoke had been postponed due to torrential rains. The teams met Sunday, Oct. 26 on a soggy field with both salivating for a win. MIT's determination and skill proved too much for the Holyoke Lyons and though the game was scoreless at halftime, MIT would soon be on the board.

Fifteen minutes into the second half, senior striker Mendelowitz took the ball down the right flank and served a strong cross into the box. The keeper came off her line and got a piece of the cross, but O'Kane was there to clean up the keeper's mistake and finish with an emphatic volley. Everybody on the MIT side breathed a sigh of relief after the goal.

In the 79th minute, a fabulous one-touch sequence involving Wilson and O'Kane ended in goal by Morrison. That insurance goal fed MIT's confidence and for the remainder of the game Holyoke could not muster any attack. Senior defenders Clinton and Sheila E. Saroglou were solid in the backfield for the shutout, as was Yang, who had four solid saves in the match.

MIT will face Wellesley College on Saturday, Nov. 9, at Wheaton College in the semifinal match of the NEWMAC tournament at 1:30 p.m.



STANLEY HU—THE TECH

Shrugging off a sprained ankle, Julia C. Espel '05 sprints in agony to a 9th place finish in Saturday's NEWMAC Championships. Espel's race was one of many gutsy performances that fueled a rally by the women's cross country team, but heavily favored Wellesley College edged out the defending champions to win the NEWMAC title, 61-64.

Tech Volleyball Advances To NEWMAC Semifinals

Volleyball, from Page 20

early deficits. A Martens serving run soon returned MIT to form and a 9-8 lead. A time-out broke MIT's momentum momentarily, and Clark climbed back to a 13-11 lead.

The teams see-sawed back and forth through most of the game, with neither team opening up a lead of more than two points despite three more blistering kills from Clayton. Finally, at 19-19, the Engineers demonstrated their league-leading offense. Consecutive kills by Zimmerman directly off exquisitely placed digs from outside hitter Jill M. Kaup '03 and a Martens-Clayton double block put the Engineers up 22-19, forcing Clark into their final time-out.

Clark's hopes crumble

Tasting victory and a semifinal berth, the Engineers collected kills from Clayton, Reynolds, and Martens to open up a 25-22 advantage. The defining moment in the

match though came off a perfectly executed free ball play. Hart and Martens ran decoy approach routes to either antenna before Reynolds blasted an emphatic "two" set past a bewildered Clark defense. This capped a 12-kill, 0.364 hitting performance from Reynolds and extinguished any lingering hope on the Clark bench.

The rest of the match was academic, as the Engineers closed the account on the Clark season with a Frick-Zimmerman stuff-block to win 30-26. Zimmerman paced the team with 43 assists and 10 digs while Reynolds and Hart provided 11 and 10 digs, respectively. Martens finished the night with nine kills, six digs, three aces, and two blocks, as closing in on MIT career records for blocks and aces.

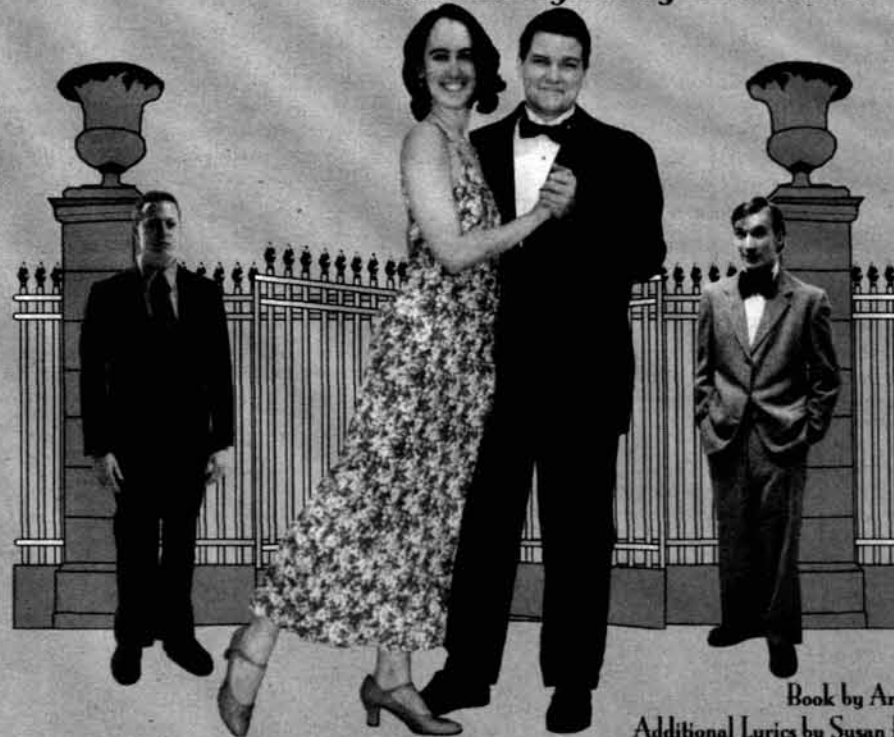
The Engineers will travel to Wellesley College Friday night to take on #3 Coast Guard in the semifinal round of the NEWMAC Tournament. In their only meeting this season, MIT defeated Coast Guard 3-1 at home.

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SPORTS

Volleyball Eyes Post- Season Awards

By Paul Dill
TEAM COACH

The MIT women's volleyball team began their quest for postseason hardware on Tuesday night with a solid 3-0 sweep of Clark University in the NEWMAC quarterfinals, clinching a perfect 9-0 home record for the season behind their trademark balanced offensive attack.

The #2 seed in the NEWMAC tournament, MIT (32-3) met with #7 Clark (10-19), and needed only half of the first game to find their rhythm. Deadlocked at 12-12, MIT rode the hot firepower of outside hitter Nydia M. Clayton '04 to a lead they would never surrender. Clayton registered four of her match-high 13 kills on consecutive swings during that run, thoroughly intimidating the Clark defenders. Outside hitter Joy N. Hart '06 and opposite Arlis A. Reynolds '06 added four kills each as the Engineers closed out the first game 30-19.

Clark's attack forced the Engineers to make 25 digs in the first game, with Hart picking up six, and reigning NEWMAC Player of the Week, setter Austin Zimmerman '06 making. Middle blocker Lauren E. Frick '03 helped the cause with two of her five blocks.

MIT takes second game

In the second game, the Engineers asserted their authority early and often, opening up leads of 7-3 and 16-9 behind a six-point serving run from middle blocker Kelly A. Martens '03, punctuated by two of her three aces on the night. Four more kills each from Clayton and Reynolds paced the Engineers to a comfortable 30-14 victory, enabled predominantly by the ball control of middle blocker Caroline D. Jordan '06 and defensive specialist Jacklyn Y. Wang '06. The pair helped guide the Engineers to 17 kills and a 0.424 hitting efficiency.

Clark, with their season on the line, sensed the urgency and came out strong in the third game, and MIT found themselves fighting

Volleyball, Page 19

MIT Men's X-C Takes First at NEWMACs

Nolan, Liu, Khatchadourian Lead Squad To Fifth Consecutive Conference Victory

By Sergio M. Navarro
TEAM MEMBER

The men's cross country team cruised to their fifth straight NEWMAC title last Saturday at the Wellesley College golf course. The Engineers looked solid as they crushed their main contenders from Coast Guard Academy. MIT won by the score of 25 to 38.

Outstanding races by captain Sean P. Nolan '03, Albert S. Liu '03, and Eric A. Khatchadourian '06 helped MIT negate the absence of key runner Stephen K. Maltas '06. Nolan led the way for the Engineers, winning the race with a time of 26:10 and capturing Conference Most Valuable Runner honors. Nolan pulled away from Coast Guard's lead runner, Ian Bartonicek, in the final stretch to claim victory.

Benjamin A. Schmeckpeper '05 trailed close behind his teammate with a time of 26:38 and a third place finish, but never looked comfortable after the first two miles.

The pack of Liu, Khatchadourian, Carlos A. Renjifo '04, and Brian C. Anderson '04, put the race away for MIT. Liu, who has

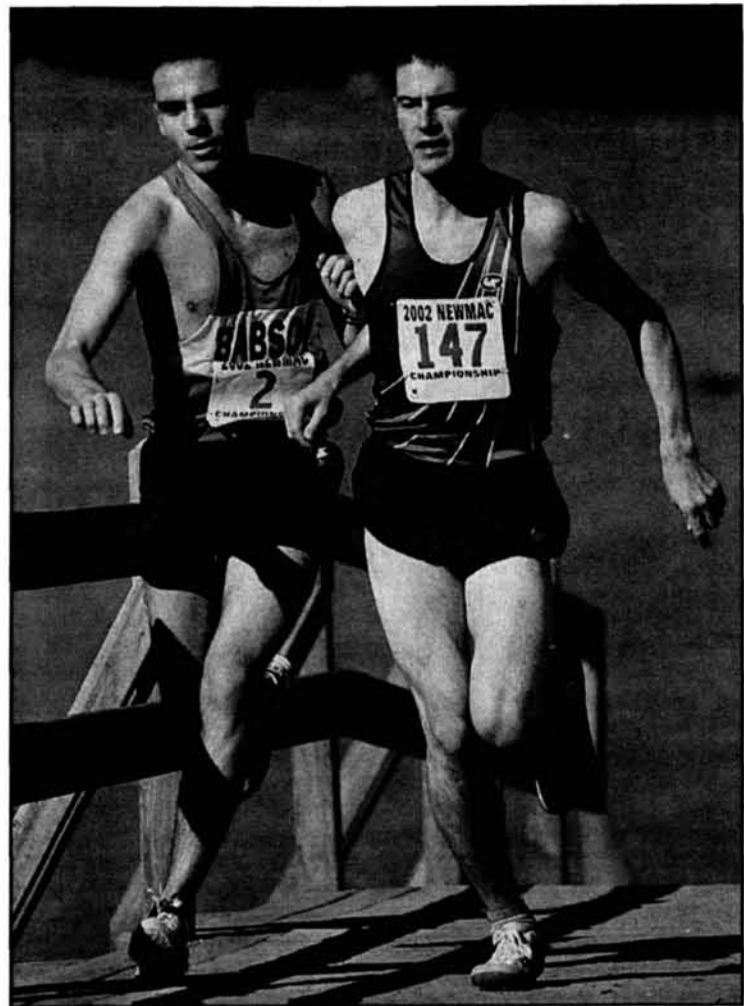
made a remarkable comeback from a mid-season injury, looked solid on his way to finish fifth in 26:34. Khatchadourian claimed seventh for MIT with a time of 27:45 and came away with Conference Freshmen of the Year honors. Renjifo (27:52) and Anderson (28:02) hung with the pack and finished in ninth and 10th respectively. The frigid conditions and longer course kept times slow for the race.

George R. Hanson '03 (28:41), Craig B. Wildman '03 (28:44), David S. Gray '06 (28:46), and Ian H. Driver '05 (28:58) rounded out the rest of Tech's attack.

MIT sees tough road to NCAAs

MIT is looking forward to the New England Regional Championships next Saturday at Westfield State, the qualifier meet for the Division III National Championship. MIT will meet a number of solid teams such as #5 Keene State, #8 Bowdoin College, and #14 Williams College. At #21, MIT will need strong performances to earn the right to run at Nationals.

"I'm sure our guys will be determined for this race," said Coach Halston Taylor. "We'll see who wants it the most on race day."



STANLEY HU—THE TECH

Ryan E. Peoples G (right) gets into a shoving match with Mike Connelly during Saturday's NEWMAC Championships.

Ultimate Garners Second Place Trophy at Brown

By Angela Tong
TEAM MEMBER

Over the weekend, the MIT women's ultimate team (sMITe) went to Seekonk, MA for the annual Huck-a-Hunk of Burning Pumpkin tournament hosted by Brown University. Strong play at the tournament landed them the second-place trophy.

On Saturday, in pool play, MIT first faced Swarthmore. After letting Swarthmore score several

goals, the sMITe defense finally started to intensify as Mina K. Hsiang '03 made five blocks and Lori A. Eich '03 and Yelena Gorlina '06 together made three point blocks. Christine B. Dobson '03 helped to convert those points by throwing three goals, two of which were caught by Eich. But their effort was not enough; the final score was 8-6, in favor of Swarthmore.

In the next round, sMITe met Columbia University, and MIT began to look like a team. Shuang

You '05 prevented Columbia from scoring by denying them upfield passes three times. Lily Huang '06 made some big plays on both offense and defense, catching three goals and making three blocks. Genevieve G. Ricart '06 also contributed to the eventual MIT win by catching two goals. In the end, MIT came out on top, 10-1.

The Brown Hobbes team was the next victim to fall to sMITe. Kathleen L. Dobson '03 came out strong; she threw three goals and caught two. She also made several defen-

sive blocks to help MIT win 8-4.

In their last game of the day, Smitte played Yale, who had beaten MIT twice earlier in the season. sMITe did not let them have the glory again. The determination of Meryl del Rosario '05 to shut Yale down could be seen as she smote three big Yale throws. Angela Tong '05 also made four blocks. Nancy Y. Sun '04 took advantage of the defense by throwing three goals, two of which were sickening hucks

Ultimate, Page 19

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Women's Soccer Advances To Semifinals vs. Wellesley

By Melissa Hart
TEAM COACH

With two conference wins in the last week of regular season play, the MIT women's soccer team secured the third seed in the NEWMAC tournament with a 5-3-1 conference record (10-5-2 overall). Their standing earned them a home game for the quarterfinal round this past weekend, which they won 1-0.

MIT hosted the sixth seeded Coast Guard Academy on Sunday, Nov. 3, at Steinbrenner Stadium in a grudge match. Last time the two teams met, Coast Guard came from behind to beat the Engineers 2-1. In that game, MIT's leading scorer, Shirley Chan '04, sustained a season-ending knee injury in the opening minutes. MIT was ready this time for Coast Guard's physical game and despite a few other injury-absences, MIT took control early on.

A number of the younger players, in particular, stepped up for MIT. Sophomore Lydia A. Helliwell was both a solid presence defensively and a spark on the team's attack. Freshman Meghan E. O'Kane was outstanding on the front line, relentlessly working the Coast Guard defenders while sophomore defender Ai-ris Yonekura denied the Coast Guard attack.

In the 36th minute of play, Helliwell delivered a ball to junior Candace Wilson who deftly shook the last Coast Guard defender. On a breakaway, Wilson finished with veteran composure putting the ball past the keeper.

Though MIT dominated play, taking 15 shots to Coast Guard's six, no more goals would be scored. One would be enough to send MIT to the conference semifinals on Saturday, Nov. 9. Keeper Connie Yang '03 had five saves for the shutout.

MIT will take on the second-seeded Wellesley College Blue in semifinals. MIT and Wellesley drew during the regular season 0-0 after a hard fought match. If MIT wins, they will play Sunday at 1 p.m. against the winner of the Wheaton (#1) versus Smith College (#4) game.

Blockbuster finish seals MIT win

Last Tuesday night, MIT traveled to Worcester. The match, a battle of Engineers, would decide much for both teams. MIT needed the win to secure a home match in the NEWMAC playoffs; WPI had to win or tie to reserve a spot in the NEWMAC tournament. It was a cold, though fortunately windless, evening when the two teams took the field.

MIT dominated play, but WPI

Soccer, Page 19



STANLEY HU—THE TECH

Martha W. Buckley '04 leads the main pack during Saturday's NEWMAC Championships. Buckley finished third in 18:42 over the 3.1-mile course, helping spark a rally by the women's cross country team. However, heavily favored Wellesley College edged out the defending champions to win the NEWMAC title, 61-64.