



MIT Hosts Science Advisers

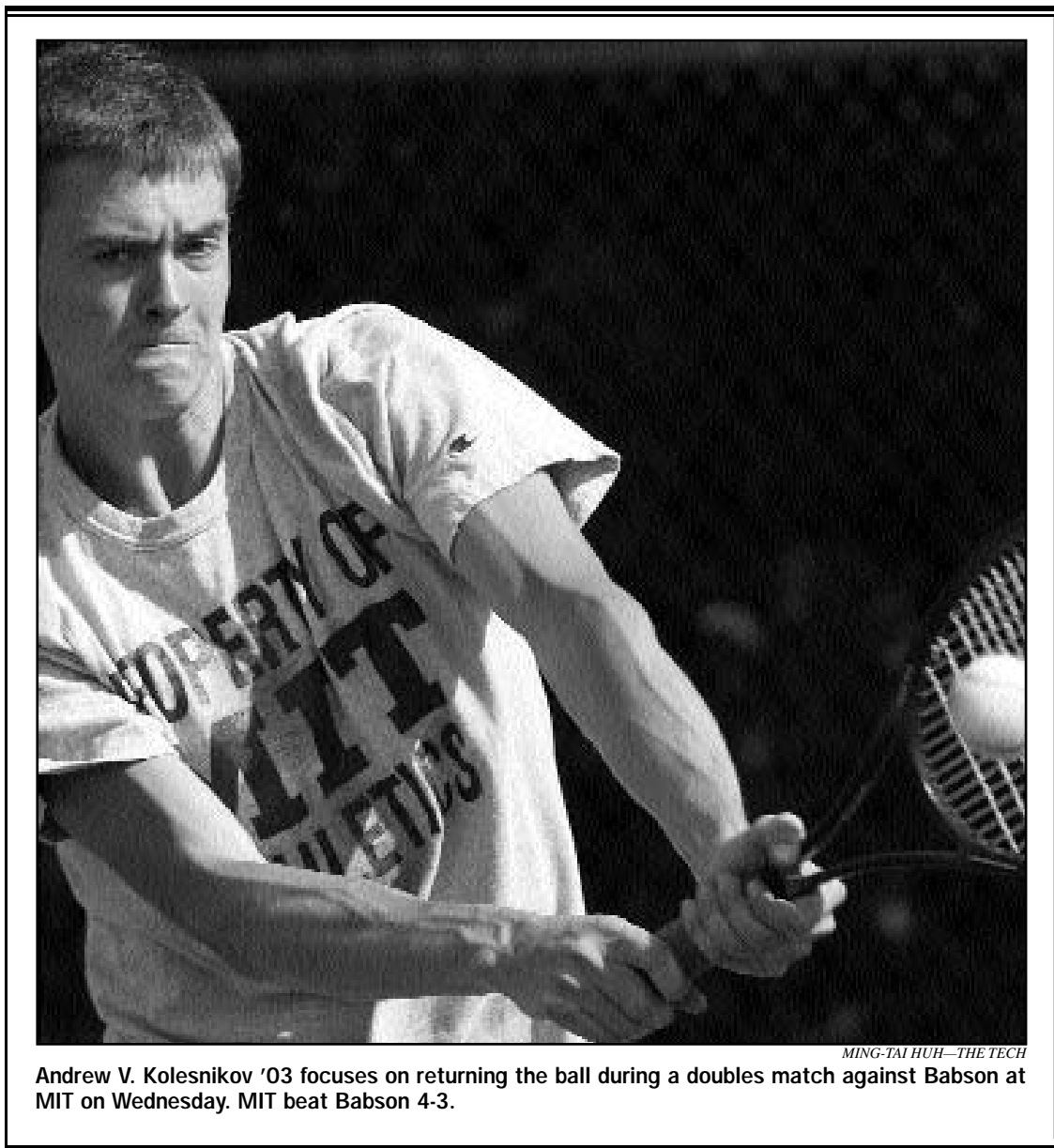
By Joel Rosenberg
ADVISORY BOARD

In 1944, President Franklin D. Roosevelt sent a letter to Vannevar Bush, former MIT professor and then director of the Office of Scientific Research and Development, asking what to do with the vast scientific knowledge that had been gained through the war effort. In his report, "Science: The Endless Frontier," Bush suggested the creation of what became the National Science Foundation (NSF), and thus began modern science policy in the United States.

Science policy leaders discussed the history and future of the field at a symposium on Tuesday to celebrate the 25th anniversary of the White House Office of Science and Technology Policy (OSTP).

From their remarks, several themes emerged: that scientists see the horizon of the future, while politicians can often only see to the next election; that the technical education and understanding of our country, from kindergarten through Congress, is not keeping pace with the world's increasing complexity; and that those who do understand science and technology (S&T) have

Science Advisers, Page 21



Andrew V. Kolesnikov '03 focuses on returning the ball during a doubles match against Babson at MIT on Wednesday. MIT beat Babson 4-3.

Anti-Rape Program Added

Orientation Activity To Feature Survivor

By Jennifer Krishnan
ASSOCIATE NEWS EDITOR

The administration announced it will add a rape awareness program to the mandatory activities for freshmen during Orientation 2001.

At a meeting yesterday, Associate Dean of Academic Resources and Programming Julie B. Norman informed student supporters that the administration had agreed to every point of their proposal.

"We're all very excited," said Radha K. Iyengar '02, president of Stop Our Silence. "We were expecting to bargain a lot."

The two-hour program will begin with a talk given by Katie Koestner, a rape survivor, followed by a question-and-answer session, Iyengar said.

Afterwards, the freshmen will be divided into 30 to 50 small groups. The groups will discuss the issues raised during Koestner's talk over lunch.

Program successful elsewhere

The new rape awareness pro-

Rape Awareness, Page 17

Official Discusses EU, Globalization

Greek Minister Papantoniou Reviews Progress of Greek Economy

By Matthew Palmer
NEWS EDITOR

The Greek Minister of Finance and Minister of National Economy Ioannis Papantoniou explored the challenges of globalization in a speech Tuesday.

Audience members filled Killian Hall to hear Papantoniou. He was

introduced by the chairman of the MIT Media Lab Nicholas P. Negroponte, who is also of Greek heritage.

The speech was timely as Greece became the 12th member of the Euro Zone at the beginning of this year. As a whole, Papantoniou said, the European Union (EU) has been

well-coordinated, leading to economic growth. However, he added that more cooperation and maybe a new unified governmental system is needed.

"Europe is the prototype of wider problems of globalization and

Greek Minister, Page 19

Alpha Epsilon Phi Named IFC's Chapter of the Year

Grochow, Spieler Win Recognition at Awards Banquet

By Michael J. Ring
EDITOR IN CHIEF

The Interfraternity Council recognized Alpha Epsilon Phi as its Chapter of the Year at the IFC's annual awards banquet Wednesday evening.

In presenting the award, IFC President Rory P. Pheiffer '02 praised AEPi for their charity work, including their Phi Cup hockey tournament and their work with the Greater Boston Food Bank.

The IFC president also noted that AEPi held the highest house grade point average of all fraternities, sororities, and independent living groups, and that its members are active in other campus activities.

"This particular organization epitomizes what a Chapter of the Year should be," Pheiffer said.

Rebecca M. Grochow '01 and Russell L. Spieler '01 received the Dean Frederick Garner Fassett Jr. Award, which annually recognizes an outstanding male and female member of the IFC community.

Grochow has served as the IFC's vice president of activities and organization. She also has worked on the council's residence adviser committee and the Cambridge Alcohol Advisory Board relations. Additionally, Pheiffer noted that Grochow organized the

IFC's application to the Northeast Greek Leadership Awards.

The IFC won two awards from the association. It received the Council Management and Programming Excellence Award for its restructuring and administration. The IFC also won the Leadership and Educational Development Programming Excellence Awards for its efforts with new members and leadership retreats.

"[Grochow] has really set an example for all future members of the IFC to follow," Pheiffer said.

Spieler was honored for his work as the IFC's Judicial Committee chair. Pheiffer said that Spieler was instrumental in reaching an agreement with the Boston Licensing Board that allows the IFC wide latitude in handling problems in Boston, a system which has been very successful.

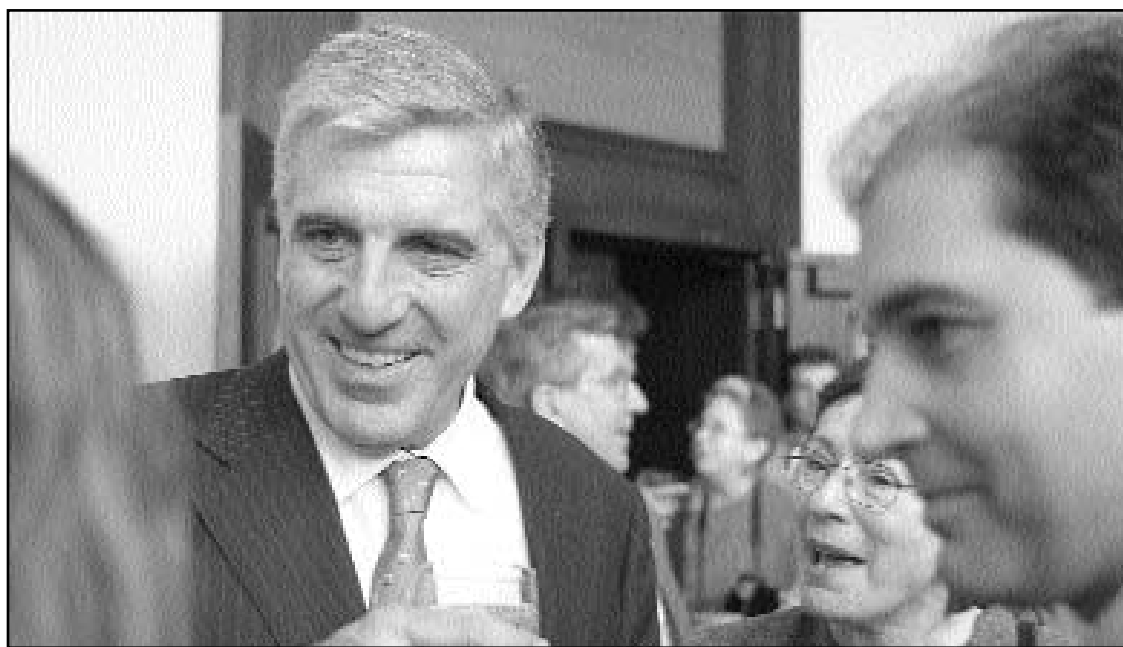
"The amount of respect I have for [Spieler] is unparalleled," Pheiffer said.

Chapters, Immerman recognized

Four chapters were recognized with other IFC awards at the dinner.

Theta Chi was recognized with the Order of Omega New Member Education award. The prize honors the chapter with the best new mem-

IFC Awards, Page 21



Ioannis Papantoniou, Greece's Minister of Finance and Minister of National Economy, meets with the audience at a reception following his speech in Killian Hall on Tuesday.



The Gilbert and Sullivan players present *The Grand Duke*.
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WORLD & NATION

Bush Orders Cuts in Power Use at Some Sites

NEWSDAY

WASHINGTON

Four days after Vice President Dick Cheney dismissed conservation as little more than a "personal virtue" that bore scant relation to sound energy policy, the Bush administration Thursday announced with some fanfare a campaign to conserve electricity at federal facilities in states facing serious power shortages.

Managers of federal installations in blackout-plagued California will be asked to reduce power consumption by as much as 10 percent at peak periods by cutting back on such things as air conditioning and lighting, President Bush said in unveiling the plan at the White House.

And government facilities throughout the nation, including the White House, will be asked to prepare contingency plans for similar cutbacks in the event their regions face power shortages. New York is still a possible candidate for such a shortage, although it appears the state may get through the peak summer period unscathed, one Energy Department official said.

Russia, China Gear Up For 'Strategic Partnership' Pact

LOS ANGELES TIMES

MOSCOW

At a time when Sino-U.S. relations are going through a rocky phase, Russia and China are preparing to boost their "strategic partnership" by signing a treaty of friendship and cooperation.

After a four-day visit in which he met with Russian President Vladimir V. Putin and other high-ranking officials, Chinese Foreign Minister Tang Jiaxuan flew home Tuesday carrying the draft accord in his briefcase. Barring unforeseen events, Putin and Chinese President Jiang Zemin are to sign the treaty at a Moscow summit in July.

The treaty will be the first full-fledged pact between Beijing and Moscow since a 1950 accord between the People's Republic and the Soviet Union was allowed to lapse in 1979 at China's request.

Both countries are being careful to stress that their aim is not to recreate the military alliance embraced by Mao Tse-tung and Josef Stalin at the height of the Cold War. They also insist that the treaty is not directed against any country. Yet officials on both sides acknowledge that they see the relationship as a counterweight to the United States.

Medicare Patients Can Sue HMOs, State Court Rules

LOS ANGELES TIMES

SAN FRANCISCO

Medicare patients in California may sue health maintenance organizations for denying necessary but expensive medical treatment, the California Supreme Court decided Thursday.

The 5-2 ruling clears the way for elderly and disabled patients and their survivors to seek hefty compensation, including punitive damages, from HMOs that improperly deny care.

Many such suits in California previously had been dismissed on the grounds that federal law requires these complaints to be filed in an administrative proceeding established by the Medicare law.

"The decision could not be better for Medicare beneficiaries," said Carol S. Jimenez, a Los Alamitos lawyer who represents the family of a now-deceased Orange County man in the case. "It means that their HMOs can't deny care and escape the consequences."

Lawyers for PacificCare of California, a defendant in the case, are considering an appeal to the U.S. Supreme Court.

"The concern is: Do we want to have a situation where the Medicare process is bypassed and is replaced with what we believe is unnecessary litigation?" said attorney Jon Z. Manzanares, who also denied that the man, George McCall, received improper care.

Conference Panel OKs Plan To Expand Health Coverage

By Robert A. Rosenblatt and Janet Hook

LOS ANGELES TIMES

WASHINGTON

Senate and House budget negotiators agreed on a plan Thursday that could lead to the biggest expansion in decades of government funding and tax breaks designed to provide health insurance to the 43 million Americans lacking such coverage.

The provision, included in the compromise budget resolution the negotiators have been working on this week, reflects bipartisan enthusiasm for trying to significantly reduce the ranks of people without health coverage. Extending coverage has proved a stubbornly persistent problem despite the recent years of strong economic growth.

Thursday's agreement would make available an additional \$28 billion over the next decade in federal money to cover the uninsured. Proponents advocate using it to extend health insurance to parents of children already covered by a federal program for low- and moderate-income households.

This aid would be added to President Bush's proposal to give tax credits worth \$71 billion over 10

years to low-income families to help them buy health insurance.

If the final legislative process produces the \$99 billion in total outlays and credits, it would represent the biggest boost in the government effort to help the uninsured since Medicare was created in 1965.

The ultimate fate of the proposals remain uncertain. The budget resolution containing the health insurance initiatives does not actually implement the policies; it simply sets broad spending parameters for spending and tax legislation that Congress will enact later this year. That means separate legislation will have to be passed to actually accomplish the expansion of health coverage for the uninsured.

The proposal to directly appropriate an additional \$28 billion for such coverage is sure to be opposed by some Republican lawmakers who want to keep government spending growth in check. And some Democrats in the closely divided Congress can be expected to question whether Bush's tax credit plan would go far enough in helping low-income families obtain health insurance.

Still, many lawmakers have indicated strong support for both proposals. And the White House, along

with pushing its tax credit plan, has not signaled objections to the \$28 billion spending proposal.

A sense of cooperation among unlikely political allies is helping move the issue of the uninsured to a higher prominence than at any time since 1994, when the Clinton administration's sweeping proposal for universal coverage collapsed. Oregon's two senators — Gordon Smith, a generally conservative Republican, and Ron Wyden, a generally liberal Democrat — joined forces to include the \$28 billion spending proposal in the budget resolution that Senate passed last month. The House, which did not have a similar section in its budget plan, accepted the Senate proposal during Thursday's final negotiations on a compromise budget resolution.

"Oregon has a long and noble tradition of taking care of those who have been left behind," Smith said Thursday. "I think that tradition is one the rest of the nation would do well to follow. In a time of surpluses and tax cuts, the U.S. Congress can find a bit extra to help those who work hard, play by the rules, but simply cannot afford health insurance for themselves and their families."

Bush Attacks China on Religion

President Embraces Agenda to Increase Religious Liberty

By Norman Kempster

LOS ANGELES TIMES

WASHINGTON

Vowing to make religious liberty "a guiding doctrine of our foreign policy," President Bush said Thursday that China's persecution of believers will thwart that nation's aspiration for becoming a great power regardless of advances in military and economic strength.

Reciting a catalog of religious repression, Bush also said his administration will never condone abuses it says are occurring in Sudan, Iraq, Iran, Cuba, Afghanistan and the former Soviet republics in central Asia.

Bush put the White House impri-

matur on a campaign to stop the conduct of business as usual with regimes that practice or condone religious persecution. His words paralleled recommendations issued earlier this week by a bipartisan commission on religious liberty, although he made no direct reference to the report.

Bush's assessment of conditions in China is sure to increase Sino-American tensions, already aggravated by the recent collision of a Chinese fighter jet and a U.S. Navy surveillance aircraft, as well as U.S. plans to sell arms to Taiwan.

"China aspires to national strength and greatness," the president said in prepared remarks. "But these acts of persecution are acts of fear and therefore of weakness. This persecution is unworthy of all that China has been — a civilization with a history of tolerance. And this persecution is unworthy of all that

China should become — an open society that respects the spiritual dignity of its people."

Bush said that "intensifying attacks on religious freedom in China" overshadow the advances Beijing has made in recent decades in economic liberalization, improved personal mobility, more secure property rights and increased access to information.

Bush said, "Churches and mosques have been vandalized or demolished. Traditional religious practices in Tibet have long been the target of especially harsh and unjust persecution. And most recently, adherents of the Falun Gong spiritual movement have been singled out for arrest and abuse."

Bush did not suggest economic or political sanctions against regimes that persecute believers, although he pledged to focus international attention on abuses.

WEATHER

A Break in Sight

By Efen Gutierrez
STAFF METEOROLOGIST

After about a week of above normal temperatures, a break from the unseasonable heat is in sight. A system currently located in the Great Plains will move east and impact Boston on Saturday morning.

However, before the system arrives, dewpoints will rise, and today it will be hot and muggy.

The rain on Saturday will not be heavy, but just enough to give some needed rain to the area.

There is no other major weather event on the horizon for the weekend, but after the rain passes, temperatures will be cooler and closer to normal.

Weekend Forecast

Today: Mostly sunny and muggy. High of 83°F (28°C).

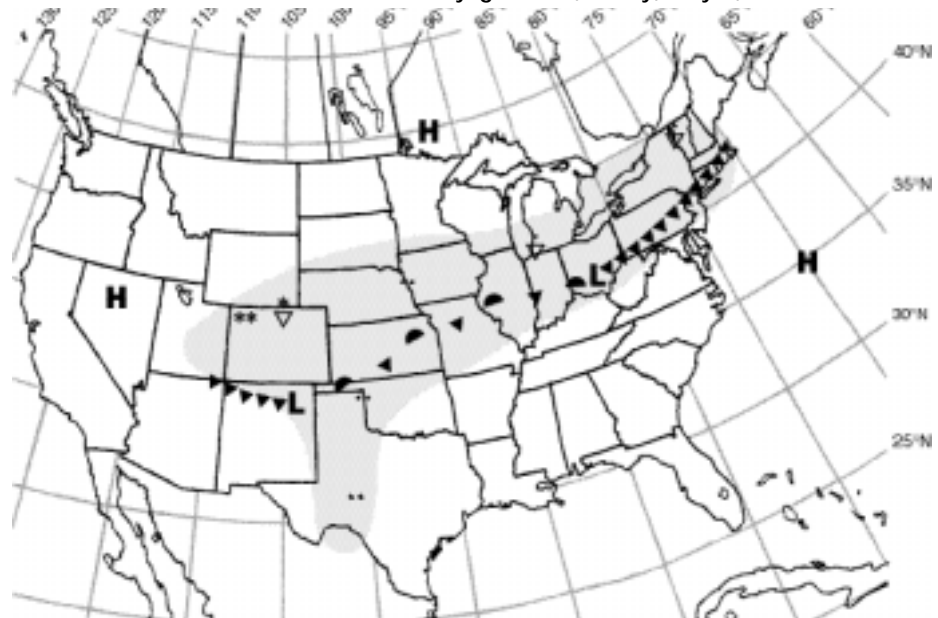
Tonight: Increasing cloudiness. Low of 54°F (12°C).

Saturday: Early showers with partly sunny skies afterwards. High in the mid 50s F (12-14°C).

Saturday Night: Partly cloudy and cooler. Low in the mid 40s F (6-8°C).

Sunday: Mostly sunny. High in the upper 60s F (19-21°C).

Situation for Noon Eastern Daylight Time, Friday, May 4, 2001



United States Loses Its Place On Human Rights Commission

By Maggie Farley
LOS ANGELES TIMES

UNITED NATIONS

The United States was voted off of the U.N. Human Rights Commission on Thursday, marking the first time since the world body's inception more than five decades ago that the Americans will not hold a seat.

"It was an election, understandably, where we're very disappointed," acting U.S. Ambassador James Cunningham said. "This won't at all, of course, affect our commitment to human-rights issues in and outside of the United Nations. We'll continue to pursue them."

In a surprise result, the United States came in last among the four candidates up for the three seats allocated to Western countries on the panel. Austria, France and Sweden won the places instead.

Human-rights groups say there

has been growing resentment toward the United States among Western nations that are usually its allies, as well as among developing countries, because of recent American votes opposing key human-rights initiatives.

"This has been coming. It should not have been a surprise to Washington," said Joanna Weschler, the U.N. representative of Human Rights Watch.

The United States has opposed treaties to abolish land mines; it does not support the International Criminal Court; and it abstained from a vote to make AIDS drugs more widely available.

Other recent unilateral actions by the Bush administration, such as pulling out of the Kyoto climate-change treaty and insisting on the development of a missile-defense system, have added to the frustra-

tion with the United States.

"This is their wake-up call," Weschler said. "We hope this will prompt a review of their policies."

The 53 seats on the commission, which are divided among member states on a geographic basis, are often the object of intense lobbying at the Geneva-based organization and at U.N. headquarters in New York. The United States traditionally does not engage in the flurry of vote-trading and politicking, one diplomat said, perhaps because it has never thought it would lose a seat.

The United States may have been further handicapped by its bare-bones mission, which has been only partially staffed since Ambassador Richard Holbrooke and his team left in January. President Bush has named John Negroponte to the post, but the nomination has not yet been sent to the Senate.

North Korea Unilaterally Extends Missile Test Moratorium to 2003

By Doug Struck
THE WASHINGTON POST

SEOUL

North Korea will launch no ballistic missiles until 2003, its leader told European officials Thursday, unilaterally extending a moratorium on the missile testing that had rattled leaders in America and Asia three years ago.

Kim Jong Il said he will "wait and see" if the Bush administration wants to resume progress toward better relations before resuming the missile tests, Sweden's prime minister, Goran Persson, told reporters after meeting Kim in Pyongyang.

Fear of a missile attack by North Korea or other small hostile states has been a major factor in the administration's interest in building a missile defense system. On Tues-

day, Bush reaffirmed intention to proceed with such a shield.

According to Persson, Kim also said his pending visit to South Korea, anxiously sought by Seoul, will similarly depend on the next move by the American president, who has taken a hard-line approach to North Korea.

"We have a clear message that Kim Jong Il is committed to a second summit," to follow the historic meeting between leaders of North and South Korea last June, Persson said. But he quoted the North Korean leader as saying he first wanted "to see what the (Bush) policy review ended up with."

Kim's promise to extend the pause in missile testing renews a pledge he made in September 1999, to the United States. That came in

negotiations following the Aug. 31, 1998, launch of a Taepodong ballistic missile that passed over Japan.

The launch spooked Japan, surprised America and helped fuel discussion of a missile defense system.

In the 1999 negotiations, the United States said it would continue to ease economic sanctions against North Korea, and Pyongyang promised to stop testing missiles as long as talks continued with the United States.

But Bush put a freeze on those discussions when he took office, causing many analysts here to question whether North Korea would resume the tests. Kim's answer to those questions was given to Persson and other officials of the European Union in the first visit by a Western head-of-state to the Stalinist state.

Earth Is Losing Self-Cleansing Ability, Study Says

LOS ANGELES TIMES

The Earth's atmosphere is beginning to lose its natural ability to remove air pollutants, a condition that could spread smog and accelerate the accumulation of greenhouse gases, according to a study published Friday in the journal *Science*.

The study documents for the first time a modest, two-decade-long worldwide decline of a key molecule that cleanses the air. Without enough of the molecules, emissions that contribute to the greenhouse effect, smog and the hole in the ozone layer do not get destroyed as fast as humans release them.

"This one molecule is very, very important. It is the critical cleaning chemical for the atmosphere," said Professor Ronald G. Prinn of the Department of Earth, Atmospheric and Planetary Sciences. Prinn led a 13-member research team responsible for the study. "If this free-radical (molecule) is decreasing, it could add to global warming."

But the losses of the chemical, called a hydroxyl radical, are slight so far and are not currently cause for alarm, experts say.

"There's a number of research findings that demonstrate the global atmosphere is changing, but we really do not know the effect it is going to have on us in the long term," said Terry Keating, environmental scientist for the U.S. Environmental Protection Agency.

Indeed, some scientists say more research is necessary to understand the complex chemical reactions that occur in the atmosphere. Also, they say it is not clear whether the molecule's decline is a temporary or cyclical event or one that portends a long-term shift.

Tina Wesson Wins 'Survivor'

THE TECH

Tina Wesson is the sole survivor.

Wesson, a nurse from Tennessee, defeated automobile customizer Colby Donaldson by a 4-3 margin to win the \$1 million grand prize on the season finale of CBS's "Survivor: The Australian Outback."

Series host Jeff Probst revealed the winner of the reality television show live last night, ending months of suspense among contestants and viewers.

Sixteen contestants endured brush fires, unexpected floods, and scant food rations during the 42-day contest, which was recorded last October and November in the Australian state of Queensland.

After every three days, the contestants voted out one member of their tribe and continued the process until the final two contestants remained. The final nine contestants, excluding Wesson and Donaldson, made up the final jury.

CBS's investment in producer Mark Burnett's series has proven lucrative. The show defeated NBC powerhouse "Friends" head-to-head throughout its second season, loosening NBC's grip on Thursday night viewership.

"Survivor" came under fire from Australians after Donaldson stole coral off of the Great Barrier Reef, which is a criminal act. The Australian military was also criticized for wasting taxpayer money by transporting the contestants to the outback on a government plane.

The show also drew complaints from animal rights activists, who were offended after contestant Michael Skupin butchered a pig on camera.

ANNOUNCEMENT OF AWARDS FOR THE 2001 ANNUAL
EDGERTON-MILI PHOTOGRAPHY CONTEST

FIRST PRIZE CHAIN

JOHN McBEAN '01

SECOND PRIZE SUNRISE OVER WATER

ALEA TEETERS '00 AND OTHERS

THIRD PRIZE WALLS

JACQUELINE YEN '04

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OPINION



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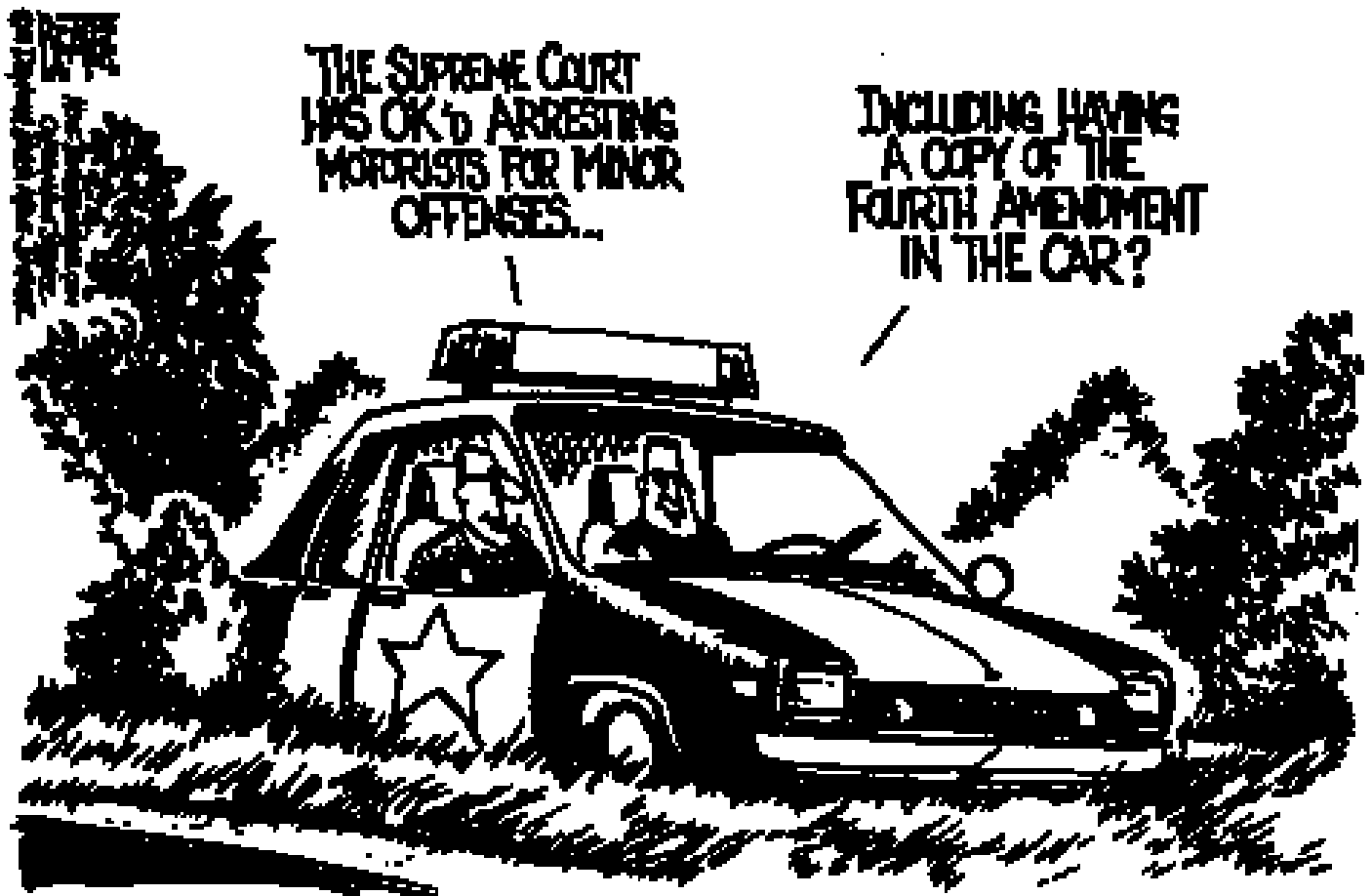
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Letters To The Editor

In the Name Of Brotherhood

I'm shocked that the editorial board of *The Tech* didn't think that Kevin McDonald '00's involvement with the Krueger affair should have disqualified him from any sort of role that involved residential supervision of undergraduates. Certainly if other administrators had been aware of that connection previously, McDonald would have never been hired. Dorow certainly knew that, but facilitated the hiring anyway, to make life easier at Delta Upsilon. What the IFC types who wished Dorow fond farewells failed to mention was that Neal had a long and dangerous history of covering up facts and incidents of all kinds, in order to protect the MIT fraternity system. Whether this was done in the name of fraternity solidarity or some misguided sense of responsibility to reduce crowding at the Institute, I'll probably never know. But it is a human tragedy that it has taken so long for this trail of corruption to be finally exposed to public view.

Christopher D. Beland '01

Judge Vest

I was disturbed to read President Vest's statement about the recent events at ATO. In it, he refers to "an ugly and totally inexcusable incident" and says, "Totally offensive racial epithets were reliably reported to have been shouted at visitors to our campus from the roof of the Alpha Tau Omega house."

It is my understanding that the incident is still under investigation by the IFC and the Campus Police. The fraternity said, "We fully understand how the statement was construed as racially offensive." They do not admit, then, that any "totally offensive racial epithet" was used; they seem to think that it is a matter of

interpretation whether the words used constituted racial abuse.

Given these facts, it is not President Vest's place to set himself up as judge and jury and broadcast his own interpretation of events. His action can only prejudice the ongoing investigations and any future disciplinary proceedings. The damage has already been done, but if President Vest cares at all about due process, he should withdraw his statement and apologize.

Given the prejudice displayed against them by the head of our university, the prospective defendants might want to think about contacting the ACLU or the Foundation for Individual Rights in Education for support.

Paul Elbourne G

Musical Malady

I've just finished reading Jeremy Baskin's "Concert Review" of Ten Degree Chill's show at Beast Roast this past weekend, and I must say I am quite disappointed.

I've often hoped that *The Tech* would take an authentic interest in the handful of bands working out of MIT, but Baskin appears to have taken a step in the wrong direction. Of the five MIT-based groups that played at Bexley on Saturday, his review made mention of only one. To focus on a single group is reasonable, but to totally ignore the preceding four hours of live music is simply shoddy journalism.

The narrow scope of his article raises questions as to the depth of his research (or even interest?) in the subject of live music at MIT. Was Baskin even aware that Chris Rakowski '02 performed in two separate bands at Beast Roast? Or that School of the Americas has also won MIT's Battle of the Bands, in the remote and hazy year of 1999? Has he been following Tristan da Cunha's

busy performance schedule? Wasn't he even the slightest bit curious about the wide array of equipment used by Ben Recht? I cannot help but wonder if he attended Beast Roast at all, Ten Degree Chill's performance aside.

At best, Baskin's article was lazy. At worst it runs the risk of being construed as contrived. Either way, it is a disservice to the many members of the MIT community who take time out of their busy academic schedules to practice, perform, and to simply play music.

Farhad Ebrahimi '00
Drummer, School of the Americas

Rap music, the chief element of the broader hip-hop culture, is an important art form to many people. Based on the crowd's reaction to Friday night's The Roots performance, it appears as though many of these people are students right here at MIT.

To call the The Roots performance, which included live keyboards, bass, drums, and vocal percussion, "the standard rap performance," is just flat out inaccurate. To further classify "the standard rap performance" as one in which the artists were "grabbing their crotches" while they "screamed garbled rap into the audience" is not only inaccurate, but disrespectful to those who appreciate and create the art.

By attributing these actions to rappers, the authors would lead you to believe that Madonna, Michael Jackson, Mick Jagger, or Prince have never touched themselves on stage, or Korn, Limp Bizkit, or any other group regularly covered in "State of the Airwaves" have never shouted incomprehensibly at their fans. And please do not call Limp Bizkit "rappers."

Matthew Dawson G

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The Mob at Harvard

Matt Craighead

The Progressive Student Labor Movement (PSLM) has unlawfully occupied a Harvard building for almost two weeks, yet Harvard shows no sign of taking forceful and decisive action against them. And while Harvard dangles, the protest picks up steam; the supporters of the PSLM include Sen. Ted Kennedy (D-Mass.), Clinton Secretary of Labor Robert Reich, AFL-CIO president John Sweeney, and Sen. Paul Wellstone (D-Minn.).

Harvard students not in the PSLM are split; many students disapprove of the PSLM's methods, but most appear to approve of its goals. In the meantime, more tents appear on Harvard Yard every day.

The Harvard administration has conceded the moral high ground to the PSLM. Harvard set up and implemented the recommendations of a committee to look at ways to improve the lot of lower-paid Harvard workers. Its recent statements do not attack the PSLM's aims; they merely beseech the protesters to return to more civilized means of communication.

Harvard need not be so timid. After all, the living wage movement itself is not a moral cause. Wages are a matter of negotiation between private individuals, and work is simply a mutually beneficial transaction. Harvard is free to fire workers, and workers are free to quit their Harvard jobs and find other jobs in Cambridge. No one has a right to a "living wage."

A living wage is also arbitrary; no one can define exactly what constitutes one. If Harvard workers have a right to \$10.25 per hour, why do they not also have a right to \$11 per hour, or \$20 per hour, or \$100 per hour?

Remember that freedom of speech and assembly have boundaries. "Freedom of speech" is not a right to say anything, anywhere, at any time. "Freedom of assembly" is not a right to gather any number of people anywhere, at any time. For instance, you cannot shout death threats at people. Similarly, you cannot use private property without permission. The owner can set terms and conditions for using his property, and he may forcibly remove anyone who violates those conditions. So Harvard has every right to kick the PSLM out.

What do the protesters want? Their

demands are not merely for a \$10.25 wage and health benefits for Harvard employees. They also have three other major demands.

First, they demand that Harvard not use subcontracting to outsource labor and bypass the living wage.

Second, they want a board to enforce the living wage policy, with binding authority over Harvard (including Harvard's finances); the board would not be appointed by the administration and would contain workers, union representatives, faculty, members of the PSLM, and "an administrator."

Finally, they want workers in factories who produce Harvard goods to also be covered by this policy. This is a power grab and an attempt to wrest control of Harvard from the

work to participate in the sit-in. This is ridiculous. If students want to get out of their classwork, they should drop out of school.

Simply put, the PSLM is a terrorist group. A terrorist, after all, is a person who uses violence or threats of violence to further a political cause. For example, the Unabomber and Timothy McVeigh are terrorists. Some of the recent FTAA protesters could also be considered terrorists. Remember that violence need not involve killing or injuring others. The unlawful use of private property is also a violent act.

Violence is not an acceptable way to resolve political issues in a civilized society. Worse, this is not really a political issue; wages are an issue between Harvard and its employees.

The right way to respond to terrorism is to adopt the stated policy of our government — the United States does not negotiate with terrorists. This rule can cause hardship; not negotiating may cause innocent people to die. But the alternative is far worse, because giving in shows the world that you are weak and that anyone can bully you around.

Harvard can take a few simple steps to resolve this situation. It should categorically reject all of the demands of the PSLM and the living wage movement. It should officially state that it will never, under any conditions, negotiate with protest movements that disrupt learning, student life, or research. It should then identify and immediately expel, without refund of tuition, the leaders of the PSLM.

Finally, Harvard should immediately send in police to disperse both the camp and the sit-in and authorize the use of any force necessary to do so. Any student who resists should be arrested and jailed.

There can be no compromise on these issues. If Harvard grants a single demand, it will serve as an announcement that it will cave to any group that uses violence to make its point.

This is a battle between right and wrong, but "right" is not a "living wage" and "wrong" is not corporate "greed." What is wrong is that students are violently disrupting Harvard. What is right is to stand up for Harvard's property rights, including its fundamental right to set its own terms for employment without interference by violent student groups.

Fundamentally, this is not a debate about the living wage. It is a debate about who runs Harvard — the administration or a mob.

administration. There are no proposed limits on the power of the board or on the level of financial control it could assume.

The administration would only have minimal control over the board, and it would not be able to use other means (such as subcontracting) to work around the board's arbitrary power. Fundamentally, this is not a debate about the living wage. It is a debate about who runs Harvard — the administration or a mob.

The mob that is the PSLM is certainly not peaceful. It wasn't good enough that they have continually plastered the entire campus with their demands. The PSLM has also dumped trash on the statue of John Harvard, broken into offices while secretaries are working and shouted slogans at them, and prevented many administrators from doing their work. Their incessant chanting and rallying are distracting, to say nothing of what the students living in Massachusetts Hall must feel.

The tent encampment on the Yard and the sit-in themselves are well beyond what Harvard should tolerate. The sit-in is also interfering with the purpose of the institution and what these students are at Harvard for in the first place — learning! Some professors have wasted no time in letting students out of

Home Economics and Happiness

Philip Burrowes

Usually MIT's course catalog covers such a wide range that it tends to overlap; nearly a third of the departments are just different ways of saying "engineering." There is, however one field that is historically a staple of academia but totally neglected here. No, not creative writing, but home economics.

Sure, it's so "high school." It's also very television-show-written-by-Lampoon-alums-who-have-long-been-unaware-of-the-actual-high-school-experience. Given the rigorous class schedules most MIT students put themselves through in high school in order to get into Carnegie Mellon (Pittsburgh? What were we thinking?), however, who among us had the time to stop and smell the roses that are home ec? We were too busy padding our transcript with useless AP Statistics or American History classes to look for immediately useful opportunities (not counting Cisco certification).

Our sacrifice should be repaid and in ironically rapid fashion. The food sciences mini-department must be resurrected. At the very least, give us one class. Wait, Kitchen Chemistry (5.S15) sort of counts.

Well, there are still lots of perpetually passed-over scholarly sectors. Let us not forget communications, a field often monopolized by elite Division I athletes. Such a merit-based oligarchy is unbecoming of any university in a country with historically far more irrational academic traditions, let alone one this close to Harvard. No doubt, given the opportunity legions of students would opt to follow in the steps of their professional athlete idols by acquiring a substantively useless degree of nominal value. Yet does MIT provide any communications classes?

Urban Spatial Structure, Transportation, and Telecommunications I (1.213J), Information and Probability (2.162), Principles of Digital Communications II

(6.451), Argumentation and Communication (11.225), Competition in Telecommunications (14.28), Communication for Managers (15.280), Communication Systems Engineering (16.36), Workshop in Professional Correspondence and Electronic Communication: English as a Second Language (21F.231), Telecommunications Modeling and Policy Analysis (ESD.127), The Physics of Information Technology (MAS.862) ... Alright, there are a few. There's still no degree in it, which means none of the invaluable and intimate faculty mentoring one finds in, say, Course VI.

Even more unnerving, there is no class in underwater basket weaving. Once merely an overused (and inexplicable; it sounds difficult to me) metaphor for fluff classes, the basketry department at MIT is being far surpassed by such innovative institutions as the University of Arizona simply because it does not exist. For those unsure of how such a class would be integrated into the Institute's rigid course system, I present an arbitrary assortment of acronyms: IAP; STS; ESD; and BEH. That doesn't even mention the fact that there is an entire division of, yes, Naval Science, which is just begging for random classes.

Speaking of military science, why is there an Aerospace division? Isn't that Course XVI? All those AS.x classes are unnecessarily taking the place of valuable, previously unexplored studies. What about Apparition Scrutinizes with department head Ray Parker Jr., or Appropriate Solecism starring John Leguizamo and Bob Hoskins as Mario and Luigi? While we're at it, let's shift NS.x class-

es under XIII and replace it with Non Sequiter.

Purple monkey dishwasher.

Don't even try to learn about making maps here, either. Geography, topography, and geology — not counting Course XII — only get token mentions in the course catalog. Maps, however, are vital for getting around places with which you aren't acquainted. The administration is obviously sending us a message:

Get Lost. Hahaha. But seriously, folks.

A few Course XV majors are probably shaking their heads, thinking, "Of course we learn about the Modified American plan." Or maybe they aren't. Sloanes are a whole different breed, you know?

Back to the point at hand, MIT doesn't even have that staple of numerical nomenclature, the 101 class. There are indeed X.101 classes, but they're not 101 in the universally accepted introductory sense. 17.101, the sole nominally intro X.101 class — not counting 6.101 as it has prerequisites — is not even being offered. Instead, departments use a less obvious, more intuitive X.x01 system, where "x" may not exist (Cf. 1.001 and 8.01). That still may be eschewed for X.000 or X.01x. Course XVIII actually has the audacity to make 18.101 the second in a series.

Why all of this iconoclasm? True, any leading institution must have a degree of uniqueness. Nonconformity for its own sake, however, is paradoxically conformity. If that is the true purpose behind the course catalog's eccentricity, it would not only fail to achieve that purpose, but do so to the detriment of underwater basket weavers everywhere.

The Specter of RBA

Christopher D. Smith

I admit it. I do not like the idea of residence-based advising one bit. As a second-term senior, the proposed RBA system reminds me too much of past battles lost to the administration. It also strikes me as fully unnecessary given the very common tendency for upperclassmen to lend helping hands to freshmen in need.

As a freshman in La Maison Française, I was luckily befriended by three juniors who quickly imparted to me their accrued, Course VI-flavored wisdom. The next year, I reciprocated that good deed to the next crop of LMF froshlings, and onward the cycle continued. In fact, as Darius G. Jazayeri G remarked in a recent letter to the editor ["FSILGs Already Provide Benefits of RBA," March 16], the FSILG community functions as a quasi-RBA system for hundreds of freshmen each year. It almost seems absurd to try to "program" this annual exchange of goodwill.

The ironic thing about the proposed new residence-based advising system is that it is an old idea. Almost ten years ago, MIT's last formal attempt at residence-based advising imploded from declining enrollment, disorganization, and lack of diversity. The residence advising system was essentially overtaken by the then-rising popularity of the freshman advising seminar program as first-year students decided that they preferred the intellectual spice of the advising seminar to the bland, aimless taste of residential advising. Unfortunately, the lessons from the last attempt at residential advising do not appear to be motivating administrators.

It's important to remember that most recent origins for residential advising were rooted in student misbehavior, not constructive experimentation. Three years ago, housing administrators, under the direction of President Vest, revived the idea of residential advising by forcing it on the FSILGs as a part of the post-Krueger crackdown. Last year's decision to institute pilot RBA programs in McCormick and Random Hall was driven by a desire to prepare for the expected social and academic dislocation that will be the inevitable product of housing all freshmen on campus in the fall of 2002. This is not to say that the administrators charged with implementing the system do not have a genuine desire to see student life improved by the change; better community life remains the far-end goal. The immediate goal, however, is unmistakably to enhance the Institute's control over undergraduates. The attempt to place a residential coordinator in Senior House, of all places, stands as sturdy proof.

As there is a silver lining to every cloud, so too, is there a diamond in this rough. The RBA system could potentially prove to be a boon to improving academic performance among freshmen. Although MIT prides itself on the fire-hose-like qualities of the freshman core curriculum, too often this induces a desire among freshmen to merely survive; this survival ethic often becomes the dominant factor in students' approach to their future encounters with MIT academics. If ever there is to arise a genuine intellectual community among students here, this must change. There must be a shift towards an academics founded on creativity and profound curiosity. The RBA system, if structured properly, may prove instrumental in bringing about this change because it will provide needed support and organization to the group studying which occurs naturally among MIT freshmen. Freshmen group-studying as it occurs now often seems to be little more than answer-sharing sessions. A decent residence adviser could transform these sessions into opportunities for students to embrace their learning material more tightly and in spirit which encourages students to push their intellects to new plateaus.

Still, the RBA system has other potential pitfalls. It does not require a very inventive imagination to foresee the residential advising system devolving into either of two unsavory outcomes. Some residential advisers could end up becoming babysitters, an outcome perhaps secretly desired by some in the administration but ultimately poisonous for community and student life. Other RAs could become one-person social committees, always there to throw an impromptu party or sponsor a day-trip to New Hampshire, but never really on scene to provide real and lasting guidance.

I have to admit that the results from McCormick's pilot RBA program are encouraging. Having experienced it first-hand, I think it was a real success. Still, not every dorm is McCormick, and I fear that should MIT attempt a broad implementation of residential advising, it will find this out sooner rather than later.

Who among us had the time to stop and smell the roses that are home ec? We were too busy padding our transcript with useless AP Statistics or American History classes.

Economy, Environment, and Escalation:

Tax Cut, Small Man?

Dan Tortorice

The Senate's vote for tax cuts estimated at \$1.2 trillion over the next decade has sealed this country's fate. With the House having already voted for a \$1.6 trillion tax cut, the United States will see a tax cut of roughly \$1.4 trillion over the next decade. This was truly a victory for George W. Bush, for not only did he convince 15 democratic senators to transfer 14 percent of the yearly production of the whole United States to, for the most part, the country's wealthiest citizens, but he did so with incredibly simplistic arguments that, not surprisingly, are false.

That the economy is slowing down, but a tax cut will put money back into the hands of consumers, reviving the economy, was a familiar antiphon as Bush attempted to garner support for his tax plan. While the statement is true enough, it is far from a conclusive reason to endorse tax cuts. For while tax cuts can spur forth the economy, so too can government spending, and government spending is, perhaps, a preferable plan.

If Bush's real desire is to pump money into the economy and increase consumption, it is better to have the government spend money directly. In that case, the money is ensured of going into the economy in its entirety. If money is returned through tax cuts, directly to consumers, part of it is saved, especially if given to the wealthy, and since banks need to keep a fixed percentage of savings in reserve, the whole tax cut does not enter into the economy.

But even if this point was not well understood by those Democrats who voted for the tax cut, it is more amazing they were not swayed by a second, perhaps more tangible argument. For if the government spent more of the tax cut, it probably would spend this money on education or social welfare programs like job training. Besides reviving the economy more effectively than a tax cut, government spending has the added benefit of actually helping needy people directly, a benefit that is not accrued with a tax cut that goes mostly to people with incomes over \$50,000.

It is clear enough that tax cuts are not the sole legislative action the government could take to revive the economy. Yet there is one more obvious rebuttal to Bush's argument that, to the Democrats' discredit, was not given due consideration. If one reason for a tax cut is to revive the economy now, why support a plan which cuts taxes not just now, but every year for the next ten years? Do people honestly believe that increasing an individual's income nine or ten years from now will have a

noticeable effect on their consumption today?

While it is of course possible, the Democrats could have easily argued that a five-year tax cut would have an almost identical effect on consumption today as a ten year cut. Yet, as is true in most times of hysteria, this logical observation got lost amid recession panic.

Supplementing the economic argument, Bush also argued that the government had taken too much from its citizens and now it was time for the United States to return what it has taken. The silliness of this argument is epic. Does this also imply when the government runs deficits, it is taking too little from its citizens and should start raising taxes? Of course not. The United States was running huge deficits before 1998, accumulating much debt. Governments cannot run deficits forever. Eventually, the money needs to be paid back, and this can only be done when there are budget surpluses. Thus, far from a budget surplus meaning the United States has taken too much from its citizens, a budget surplus is a necessity in light of past budget deficits.

Bush also clearly ignores that a large portion of the budget surplus is from payments into the Social Security system and into the Medicare system. These funds are not surpluses at all, for they entail future monetary obligations. If the economy weakens, and the surplus predictions fail, as predictions often do, the government will not be able to afford both the tax cut and its Medicare and Social Security obligations. The result will be either a repeal of the tax cut, which makes one wonder why it was passed in the first place, or a reduction in the services provided by programs designed to help the needy, the later being a transfer of wealth from the poor to the rich.

Let no one say that the passage of a \$1.2 trillion tax cut through the Senate was not a political victory for George W. Bush. For with incredibly simplistic arguments, he managed to convince 15 Democrats to support a tax cut which disproportionately aids wealthy Americans. Either Bush is an incredibly simple man who believes in his own silly arguments, or a man with substantial political acumen who just scored a slam duck for his constituency.

A Step in the Right Direction

Jason H. Wasfy

Those of us who are concerned about the influence of big money in politics have seen two welcome developments during President Bush's first 100 days. Bush resisted one of those developments, but he deserves credit for the other.

What we should praise Bush for is the new sense of ethical responsibility that he has brought to the White House. In the days following the inauguration, when we all thought we heard the last of the awful corruption that tainted the Clinton administration, news reports began to bubble out that Clinton had pardoned international criminal fugitive Marc Rich.

Although Rich had been fleeing justice abroad for some time, a hefty sum paid to former White House council Jack Quinn and a helpful word from Rich's ex-wife — a major Democratic Party donor who donated generously to Clinton's presidential library — were enough to gain Clinton's sympathy.

I don't think that we'll see any more of this. Pardons won't be for sale in the Bush administration because Bush brings to his office an emphasis on integrity that Clinton sorely lacked. And in any case, the vocal outrage from Republicans and Democrats alike about the Rich pardon will likely ensure that chief executives will be careful about selling pardons for some time to come.

But trading pardons for cash isn't the only problem with big money in government today. Our campaign finance system is riddled with

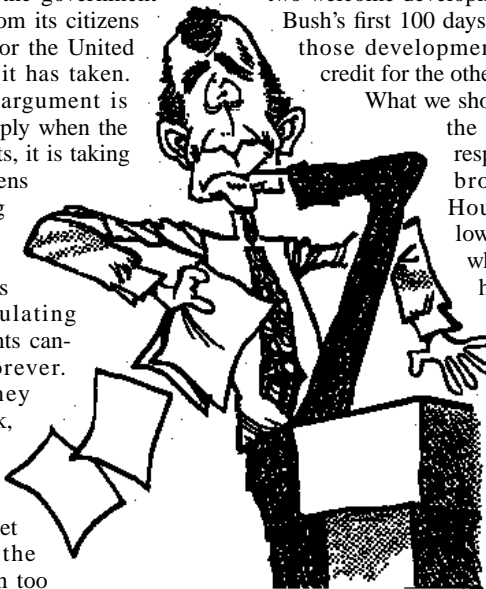
loopholes for wealthy people, unions, and big corporations to influence the democratic process, and Bush has been less than enthusiastic about meaningful reform.

Meaningful reform is precisely what the McCain-Feingold bill promises — including a ban on unregulated soft money. In the past, the bill had faltered in the Senate because of filibusters, which require only 40 senators to maintain. But in the 2000 election, a few senators hostile to reform lost their seats and Sen. Thad Cochran (R-Miss.) thrust his support behind the reform bill over the winter. John McCain and Russ Feingold were finally able to navigate reform through the Senate's complicated parliamentary process. That's the good news.

Although Bush hasn't ruled out signing McCain-Feingold if it ever passes the House and arrives at his desk, it's safe to say that he's not fond of the bill. The Republican Party elders who designated Bush as their favorite for the party's presidential nomination last spring are dead set against the bill. And the big donors that supported Bush's campaign throughout don't want to lose their ability to sway elections.

The key to achieving real reform over the next 100 days and beyond will depend on some of Bush's natural allies — conservatives that want to strengthen our democratic system, people concerned about labor unions spending their members' dues on political activities that many of those members would oppose, and Republican lawmakers who are just sick and tired of raising money when they could be talking about issues. How much leverage those groups and others have over the president's thinking will determine the fate of campaign finance reform.

Bush's first 100 days have signaled the end of illegal and improper fundraising by the Clinton/Gore team. The next important challenge that reform advocates now face is to convince the new administration that better laws separating big money from political decisions are the best choice both for George W. Bush and for the nation.



Pretty Darn Good

Roy Esaki

In the past hundred days, President George W. Bush seems to have fared fairly well in the minds of Americans, especially considering the tumultuous elections ordeal. Bush viewed his work thus far as "pretty darn good," and Americans seem to agree. A recent CNN/Gallup poll gave Bush a 62 percent approval rating (compared to 55 percent for Clinton and 58 percent for Bush the Elder in their respective inaugural years), even though only 50 percent believe Bush won fair and square. This impressively high esteem of Americans for a president nationally mocked for his incompetence in intellectual concerns, especially in such complex matters as foreign affairs, perhaps reflects the prevalence of American-hegemonistic thinking in our country.

Consider Bush's reaction to the reconnaissance-plane incident in China. Following China's reticent behavior, Bush unilaterally — and seemingly without much thought — departed from more than two decades of U.S.

policy towards China in an interview, glibly saying that the United States would "do whatever it took" to help Taiwan defend itself against China — a brash and over-simplified stance.

As imprudent as the remark may have been, the staunchly anti-Chinese stance resonated with American public opinion. Bush's shifting of America's relation with China from that of "strategic partner" to "strategic competitor" jives with the patriotically anti-Chinese Americans; the number of Americans who view China as an ally dropped from more than 50 percent in March of last year, to just 27 percent after the incident. After the Sino-U.S. staring contest and evasive semantics, the United States did get the crew back without technically apologizing (at least in our language). This success led to a 71 percent approval rating of Bush's handling of the spy plane incident, a remarkably high number considering the relative lack of experienced Chinese-relations analysts in the White House and Bush's personal inexperience with foreign relations.

Overall, Bush's success, at least in foreign

policy relations, seems to stem from being an average American, happy to deem the United States to be above the fray of the rest of the world. Bush Sixpack quite nicely represents us, being quick to passionately defend

American interests and security when need be, coming up with strong-minded declarations, but eager to leave the task of devising a workable solution to the experts, and otherwise eager to keep his hands off of such distant concerns as international affairs. The astute and far-

reaching philosophy, "I think the president can either help or not help a situation," has guided Bush to striking popularity during his first hundred days, as he continues to either lead or not lead our nation.



President Bush's First 100 Days

Bush's 100 Damaging Days

Katie Jeffreys

Of all policy areas, perhaps the one over which George W. Bush has received the most press is the environment. He has made decisions criticized by many politicians and citizens as being harmful to the environment. In addition, these decisions were in many cases based on pressures from industries which contributed heavy financial support to the Bush campaign. Bush, on the other hand, cites unsound science, ignorance, and that many of the policies he has rescinded were promulgated at the eleventh-hour by Bill Clinton.

In just three months, Bush has passed or proposed anti-environment policy or delayed pro-environment policy in many areas. Some of the most prominent are the arsenic standard in drinking water, regulation of carbon dioxide as a greenhouse gas, the energy crisis in California and the proposed drilling in the Arctic National Wildlife Refuge (ANWR). In addition, debate has arisen over the preservation of roadless lands in national forests, the elimination of new mining regulations, the use of snowmobiles in National Parks, and citizens' rights to sue the government if it does not list species under the Endangered Species Act. In addition, his proposed budget cuts funding to departments with an environmental focus, including the Departments of Interior, Energy and Agriculture, along with the Environmental Protection Agency and the Army Corps of Engineers.

It is said that stores sometimes raise their prices so that they can later put their products on "sale" but still make the same profit they would have at regular prices. I wonder if Bush figures he can make policy which is bad for the environment now so that later he can make more progressive policy with an end result of little or no tightening of environmental regulations. However, this would let Bush complete his term with a pro-environment reputation. If this is the case he will be able to take advantage of the fickle public, who will likely not recall this initial wave of anti-environmental policy come election time.

Bush has been focusing heavily on what he perceives as an energy crisis in the United States, especially in California. As a result he has proposed opening drilling in the ANWR. While Alaskans see this as a positive contribution to their economy, environmentalists hope to preserve what is considered the last remaining wilderness in the United States. Senators, including John Kerry (D-Mass.), are fighting the proposed drilling as a solution to the California energy crisis, citing that less than one percent of the state's electricity comes from oil, and that oil from the ANWR would not be available for at least 10 years. By that time alternative energy sources could be providing the same amount of energy as available from the ANWR without adversely impacting the environment.

Bush is often mocked for his ignorance of issues, and quite often this criticism is valid. Bush made a strong campaign promise to regulate carbon dioxide emissions to the atmosphere to reduce the greenhouse effect. However, after taking office he realized that CO₂ was in fact not already covered by the Clean Air Act, a fact that both he and his advisers apparently failed to notice when writing his campaign platform. His decision came just days after EPA head Christie Todd Whitman announced to the world that the United States was committed to the Kyoto Protocol. This international treaty would set global standards for CO₂ emissions and, as scientists increasingly agree, effectively reduce global climate change. Bush's decision came in response to the perceived energy crisis, as coal-fired power plants are major contributors to CO₂ emissions.

On January 17, the Clinton administration lowered the standard for arsenic, a known carcinogen, in drinking water from the 1942 standard of 50 parts per billion to 10 ppb. This is a standard they felt was

scientifically proven to be safe for people, especially children, the elderly, and pregnant women. However, shortly after taking office, Whitman announced that she would propose to withdraw the rule. At a minimum the standard would be delayed several months, and at worst the affordability of drinking water would take precedence over its safety and the law will be rescinded altogether. Critics of the more stringent standard say that it is unfair to states with high naturally occurring arsenic concentrations, but there is a parallel proposal to increase funding to those states to allow them to install treatment facilities.

The single individual most injured by President Bush's decisions is probably Whitman. She has been forced, on more than

one occasion, to make public statements asserting the president's commitment to an environmental issue, only to be made to look a fool a few days later when Bush changes his policy to contradict her statements. She is a puppet of the administration, with no funding or power to set positive environmental regulations. It is clear that the goals of the Bush administration are not in line with her own. For example, as the governor of New Jersey she lowered the arsenic standard for drinking water to 10 ppb. It is unfortunate that the EPA cannot act as an autonomous body, setting regulations appropriate for the preservation of the health and safety of humans and the environment, rather than the prerogatives of industry and politicians.



Sacrificing the Environment for Profits and Politics

Ken Nesmith

The Republican Party has never been considered exceptionally friendly toward the environment. Whenever a dispute arises over some regulation or law that will protect the environment by limiting pollution or restricting the exploitation of resources, the party fights valiantly against the increased costs that business will face as a result of the government mandate to act responsibly and to not poison or destroy habitats.

Unfortunately, this opposition is sometimes grounded not in any understanding or comprehension of the problems we can create for ourselves by disrespecting the environment, but rather in a reflexive action to defend the abilities of entrepreneurs to maximize profits however they may be able. The greatest crime is regulation, in any form.

In that context, the actions of the Bush administration within the first fourteenth of their four-year tenure are understandable but no less disappointing. The president has eliminated OSHA ergonomics standards in order to save businesses the costs of keeping their workplaces in line with the regulations, even though the medical costs saved by constructing a safer workplace far exceed the price of

compliance. The environment, though, has suffered more of the injuries inherent to this philosophy.

Showing us exactly what the honor and integrity of the Oval Office inevitably boils away to, President Bush, his coffers flush with oil-industry funding, reversed a campaign promise and chose not to regulate carbon dioxide emissions, despite the increasing evidence that indicates that carbon dioxide emissions from human activity are directly responsible for amplifying the periodic warming of the earth.

Others within Bush's own administration, including Secretary of the Treasury Paul O'Neill and Environmental Protection Agency director Christine Todd Whitman, were forced to do some verbal gymnastics to rectify their own statements on the dangers of global warming in light of the President's altered stance.

The president's high-profile snubbing of the Kyoto protocol, which would just begin to address excessive greenhouse gas emissions, angered the international community — as it should have, given the excessiveness of U.S. consumption and corresponding pollution, along with our unwillingness to make even the slightest change in our habits.

On the issue of arsenic in drinking water, Bush overturned an EPA ruling that would lower the legal amount of arsenic in water from 50 parts per billion to 10 ppb, a standard first proposed in 1962. The EPA took 17 years to carefully research the matter and arrive at an appropriate standard, but intense lobbying by industries the make use of the carcinogen succeeded, and the implementation of a new standard was put on hold pending further research. These industries gave

well over \$1 million to the Republican party last year. Their own attempts to fund counter-studies suggesting that arsenic is not as harmful as thought have failed repeatedly, as those scientists employed explore the extensive research on the subject and fail to draw any other alternative conclusion. One Harvard researcher, Dr. Richard Wilson, was hired by ARCO Mining Company to demonstrate that the high levels of the substance were acceptable, but upon studying what he now calls the "unequivocal" science, he instead recommended that an "emergency" arsenic reduction of at least 60 percent be implemented until further research could be done.

These poor choices have cast the President in the public eye as one who is not especially sensitive to, or even aware of, the catastrophic problems we can traipse into when we blithely ignore the long term consequences of our actions.

Vice President Dick Cheney, a former oil industry executive, revealed his own ignorance of destructive American gluttony in a recent discussion of national energy policy. Rather than finding ways to reduce our inefficient and excessive consumption, the United States — which uses several times the resources per capita of any other nation, industrialized or not — will seek to increase its energy supply through methods that will do nothing to solve the problems we face.

Instead of researching viable alternatives to fossil fuels, inefficient transportation, or ineffective power transmission systems — funds for each decline dramatically under the Bush budget — the new energy policy and the

corresponding budget subsidize oil exploration, the auto industry, and in the near future, the construction of more power plants. Rather than cutting already exorbitant demand or pursuing efficient production methods, we look to the same ineffective and destructive solutions that force us to wish pollution away and to dabble militarily at great cost in the Middle East far more than we might like.

Disturbingly, these fatuous but determined efforts to find more oil and make more energy hold the American "way of life," marked by single-minded greed and destructive consumption, as a sacrosanct institution that must



not be altered. Somehow, those currently in power have become blinded to the necessary common sense that demands that we find a way to live in dynamic equilibrium with the environment, carefully living off of it while not destroying it.

While Clinton faced endless and sometimes deserved criticism for his habit of sacrificing moral virtue for the sake of personal gain, Bush has shown that he prefers to sacrifice not moral virtue, but the environment itself in the name of profits. Discouragingly, the young among us are the ones who will pay the greatest price for these decisions. One hundred days, and all is not well.



THE ARTS

MUSIC REVIEW

Getting 'Sinomatic' With It

New Band, Produced by 3EB Veteran, Puts Out Generic but Catchy Rock

By Roshan Baliga

PHOTOGRAPHY EDITOR

Sinomatic (Self-Titled Debut)

Atlantic Records

\$11.97

From the CD's opening chords, I knew it was going to be different. "Sinomatic," an alternative rock band from Youngstown, Ohio, released their self-titled debut CD two weeks ago to little fanfare. However, their CD caught my ear because from the beginning it sounded far more refined than many other of the "undiscovereds."

The band, which consists of three guitarists, a bass player, and a drummer, has recorded an energetic debut album that seems made for radio. Their heavily-produced sound can be heard first on "Bloom," Sinomatic's first single. The song, which showcases lead singer Ken Cooper's vocal abilities and the band's upbeat guitar work, was clearly made to attack the airwaves. From a catchy chorus to a catchy guitar riff, "Bloom" exemplifies the album's desire for mainstream acceptance. In fact, "Bloom" and the next track, "You're Mine," sound exactly like the rock I would expect to hear on the radio.

If these guys are hoping to be the next band on WBCN, they've got a fighting chance. However, if they actually hope to "shake up the current state of music," as their promotional materials state, they've got a way to go.

Sinomatic's guitar work is their strongest facet, though it reminds me of a mix of older Collective Soul and newer Goo Goo Dolls. Sinomatic's interesting guitar layering can be heard on the fourth track, "Candyskin." Unfortunately the song also features a guitar

solo that sounds just like the guitar solos of other bands.

"Candyskin" reminded me of Third Eye Blind's work, which isn't surprising since Sinomatic's producer, Eric Valentine, did production work for Third Eye Blind's debut album as well. Valentine, who also produced four albums for Smash Mouth, has clearly



Sinomatic members Rick Deak (left), Dave Markasky, Ken Cooper, Bryan Patrick, and Matt Lawrence launch their debut self-titled album.

influenced the sound of this album. That's not to say that the band isn't talented, but it never hurts to have a good producer on board. Valentine's production skills can clearly be heard on the sixth track, "Girlfriend." It is dur-

ing this song that we first hear the subtle nuances of flange and background distortion. However, since "Girlfriend" is one of the album's weaker songs, it probably won't get any airplay.

The most likely song to make Sinomatic popular is "My Time." Though the lyrics aren't very meaningful, the softer guitar riffs

tracks, including "Seven Days," are more original, and show promise to actually redefine rock as Sinomatic claims to desire. The addition of a violin in this song is a nice touch, though the song probably won't get any airplay until the unlikely event that Sinomatic gains a large following.

Sinomatic's weak links seem to be their lyrics and slower songs, such as "Leave Me Tomorrow." I would expect the band to show more musical skill in these slower numbers, but they don't. While most of the positive aspects of their CD might very well be to the credit of their producer, I would expect Sinomatic to put on a good live show. With three guitarists, their live performances should be able to match the effective layering heard on the CD, and as a new band looking for attention, they should be energetic. Unfortunately, they don't seem to be coming to Boston anytime soon. However, if you happen to be around the midwest during the next month, you can find them touring with Buckcherry.

Despite Sinomatic's shortcomings, I wouldn't count them out yet. Their music may mature on future CDs, as they branch out and write lyrics on topics other than their girlfriends. It's also possible that their music could become mainstream. While many people will deny liking mainstream music because it's mainstream, it's clearly not the worst thing that could happen to a band. I'd rate Sinomatic as my best random find since Unified Theory's debut CD last August. If you're looking for quality lyrics, look elsewhere, but if you're looking for catchy alternative rock to accompany those late night problem sets, look no further than Sinomatic.

and repetitive chorus should appeal to a broader audience.

Like most debut CDs, the first few tracks seem more refined than the tracks near the end of the album. However Sinomatic's later

CONCERT REVIEW

Chamber Skills & Thrills

By Andrew Wong

Metamorphosen Chamber Orchestra; Scott Yoo, Music Director
Pavanes & Symmetries by Dan Coleman, *Metamorphosen* by Richard Strauss, *The American Seasons* by Mark O'Connor; Elizabeth Ostling, flute; Mark O'Connor, Violin
Jordan Hall, April 29, 2001

On Sunday evening, the Metamorphosen Chamber Orchestra gathered in Jordan Hall to deliver an emotionally charged final performance of the season. The program wrapped up a phenomenal concert season with high quality musicianship and an eclectic repertoire.

Metamorphosen, a group of aspiring string musicians, has given four concerts this year, all of which have demonstrated the power of combining talented musicians for a string orchestra. The orchestra maintains its freshness for every performance by rotating members' positions in an almost random sequence between pieces. This practice, similar to that of European orchestras, not only demonstrates the musical prowess of each player, but also maintains a homogeneous mixture of quality throughout the section.

The night opened with the world premiere of Dan Coleman's *Pavanes & Symmetries*. Coleman, composer-in-association of Metamorphosen and winner of the Aaron Copland Award, composed the piece specifically for flutist Elizabeth Ostling, the soloist that night. The piece opens with a mysterious cadenza that is supported by a "rustling" section in the strings. Much of the piece is written for the lower range of the flute, but Ostling maintained clarity and expressiveness in bringing out the delicate pavane theme.

The next piece, *Metamorphosen* by Richard Strauss (the work after which the chamber orchestra is named) seemed to almost degrade the pastoral setting laid by Coleman with dark clouds of mourning. Strauss wrote the piece in 1945, after the bombing of Dresden and two years after the destruction of the Munich Staatstheater. As the name suggests, the piece is about the internal development of ideas over time.

Scott Yoo, the music director of Metamorphosen, dived into the podium and stretched his arms to all ends of the orchestra, as if grabbing the strings off of the instruments, and churned the melancholic chords in an almost deliberate gesture to leave the audience in awe. This urgency magnified the depression rolling off of the cellos and basses in references to the Marcia funebre of Beethoven's *Eroica* symphony. By the end of the 30 minute precession towards utter despair, the orchestra members almost had a painful visage. A thick silence enveloped the Jordan Hall after the final chord, until finally Yoo lifted his head and brought the "deceased" orchestra back to life.

Violinist Mark O'Connor ended the concert with a Boston premiere of his composition, *The American Seasons*, a concerto for violin and chamber orchestra. The piece is constructed around the idea of the stages of life and personifies these with the seasons. O'Connor tantalized the audience with his simple, yet lively philosophy to playing the fiddle. A former student of Stephane Grappelli, O'Connor is currently on the forefront of a new resurgence of American music and folk tradition. His unorthodox violin technique breaks the barriers of the traditional classical school of playing, and brings a new meaning to the term "virtuoso."

While O'Connor shined with his casual swing tunes in "Summer," the orchestra had a hard time keeping the style alive. The clash between dozens of Juilliard-trained string players and an Irish fiddler became especially apparent when O'Connor began tapping his foot to the beat with little response by Yoo. The ending cadenza in "Winter" extinguished much of the skepticism in the hall as to whether this new rocker for American classical music had any true musical virtue. Every stroke of the bow gleamed with confident elation in a linear, yet innocent manner. After a standing ovation from the audience, O'Connor finally ended the concert with an encore of *Appalachian Waltz*. The rendition of this soulful chamber work by both O'Connor and Metamorphosen was a spectacular end to a sensational season.

FILM REVIEW ★★★

Liv Tyler's Male Bait

'One Night at McCool's' Shines Like a Gem

By Sandra Chung

Directed by Harald Zwart
Written by Stan Seidel
Starring Liv Tyler, Matt Dillon, Paul Reiser,
John Goodman, Michael Douglas
Rated R

A night at a seedy bar named McCool's is the kickoff point for the three interweaving storylines — the place where Jewel (Liv Tyler) busts into the lives of all three male leads in the new film, *One Night at McCool's*. While Randy (Matt Dillon), the shiftless bachelor-bartender, takes a shot out of a plunger to entertain some frat boys, his lawyer-cousin Carl (Paul Reiser) catches an eyeful of Jewel scoping out the joint. Later, while a hammered Carl dozes nearby in his posh car, Randy "rescues" Jewel from a violent altercation with her tough-looking boyfriend (Andrew Dice Clay, an unfortunate leftover from the 1980s).

Jewel easily convinces Randy to take her back to his dilapidated house for a romp in the sack. In lieu of postcoital bliss, however, she reveals that her seduction is a ruse to get into his house so her "boyfriend" Utah can rob him. Utah shows up with a big gun and is agitated to discover that there isn't much to steal at Randy's place. Jewel mentions the bar safe and they journey with Randy at gunpoint to retrieve the cash from McCool's. Somehow Utah ends up dead on the floor by the bar ... and Jewel holds the smoking gun.

A shaken but infatuated Randy decides to call the cops and then somewhat reluctantly agrees to cover for Jewel. Charlie (John Goodman), the police detective, arrives on the scene and unsuccessfully covers the crumbling of his professional cool at the sight of Jewel. For the time being, though, she goes home with Randy. Their relationship becomes more and more twisted as Randy is forced to participate in Jewel's seduce-and-steal schemes to pay for her extravagant alterations to his house.

Her ultimate goal is not money but the house of her dreams — and she'll use whatever means (or men) necessary to reach it. When Randy's usefulness runs dry, she branches out and uses her formidable skills of seduction to persuade Carl and Charlie to unknowingly

help her transform Randy's shack into the home of her dreams.

Most of the film hops between the three male leads relating their personal Jewel stories to their respective counselors — Charlie confessing his Jewel-related sins to a tipsy priest, Randy sharing his tale of woe with a sleazy hit man (Michael Douglas), and Carl seeking advice from a psychiatrist (Reba McEntire — apparently she's the expert on cheatin' hearts).

As the plot takes shape and the three separate storylines begin to bleed into each other, it becomes apparent that Jewel is eventually going to have to deal with all three men simultaneously. Sure enough, the characters head toward a denouement in which all three storylines converge. Besides the three men and Jewel, an unexpected guest, a hit man shows up at the last confrontation. Make sure you pay close attention to all three stories so this final scene makes sense. I was eating up the symbolism.

Kudos to the casting agent for nailing all the main roles. Dillon easily pulls off his type-cast role and Goodman plays the upright detective with the correct notes of pathetic loneliness and dreamy infatuation. Reiser runs happily amok with the shameless lust of Carl while even eliciting some sympathy for the soulless lawyer's morally questionable rediscovery of his humanity.

But the standout is Tyler, who (pardon the play on words) truly sparkles as Jewel. She injects her own trademark babydoll charm into her fabulously ruthless character, gracing Jewel's outrageous lifestyle with a luminous, romantic quality and rescuing the character from the typical manipulative whore role. I enjoyed tracing the storylines to their bitter-sweet and/or funny conclusions and discovering how various events or imagery allude to others.

Every square inch of this movie's plot has a purpose; each tuck and fold is carefully planned and contributes neatly to the polished neatness of the finished product. Such gift-wrapped scripts often taste saccharin, but *McCool's* manages to be extremely satisfying without suffering from excessive cuteness. *One Night at McCool's* is like a fine dessert — very pleasurable and not too sweet, with a refreshing blend of flavors captivating enough to stand alone.

THEATER REVIEW

'Grand Duke' A Charmer

True To its G&S Roots, Play Is Well-Acted & Directed

By Lance Nathan
STAFF WRITER

The Grand Duke, Presented by MTG
Produced by Garry Zacheiss '00, Directed by David Jedlinsky '89
Starring Jonathan Weinstein G, Gregory Baker, Andrew Sweet, David Michael Daly, Michael Spitznagel '99, Arthur Dunlap, David Poland '04, David Euresti '01, Ana Albir '04.

On May 3, 1901, MIT produced the American premiere of Gilbert and Sullivan's final operetta, *The Grand Duke*. Last night, exactly 100 years later, the current incarnation of the Gilbert and Sullivan Players once again opened *The Grand Duke*. This most recent production is

the perfect way to add some lighthearted silliness to a weekend.

Set in the Grand Duchy of Pfennig Halbpennig, the operetta centers around a conspiracy by an acting troupe to overthrow the unpopular and miserly Grand Duke Rudolph (Jonathan Weinstein G). But when Ludwig (Andrew Sweet) gives away the plot, solicitor Tannhäuser (David Michael Daly) advises him and theater manager Ernest Dummkopf (Gregory Baker) of a way to keep them both from a treason conviction: fighting a "statutory duel." Two duelers each pull a card from a deck, and the one drawing the lower card is legally considered dead, with the other assuming his position and responsibilities. Since the law expires the next day, the loser will soon come back to life, unpunishable after death has wiped him clean of crimes.

Ludwig wins, and, finding the Duke in the town square looking to end his life, offers the Duke the same deal. The actor thus becomes the new Grand Duke, and inherits not only the positions but the obligations of his dueling opponents. In particular, though he himself is betrothed to Lisa (Dawn Perlner '01), he must honor D u m m k o p f ' s promise to cast leading lady Julia (Ana Albir '04) in the lead female role of the new production — that is, as Grand Duchess — as well as Rudolph's own engagement to the Baroness von Krakenfeldt (Ishani Radha Das '03) and to the Princess of Monte Carlo (Elicia Anderson '01).

Whimsical, yes. Primarily, this plot serves as a vehicle for large amounts of silliness, not the



Ludwig (Andrew Sweet) and Lisa (Dawn Perlner '01) dance in celebration of their imminent wedding while the chorus sings "Won't it be a pretty wedding?"

least of which are Gilbert's puns and private jokes. In a play about an acting troupe, there is no shortage of theater jokes. In some cases, the humor borders on the inscrutable: while none of the German natives speak with an accent, the English actress Julia does — but with a German accent, not an English one. Yet even at its most enigmatic, the script on its own is enjoyable.

What makes this production even better than the script would have it be is the direction by David Jedlinsky '89. To Gilbert's verbal jokes, Jedlinsky has added visual puns and humor. To take a typical example, Duke Rudolph is removed not only from the scene after his death but from the stage entirely, and he spends part of the second act trying to force his way back into the production. Other such moments, more visual in nature, simply must be seen; describing them would ruin the joke.

These succeed in the end because of the talents of the cast and production staff. The chorus is frequently kept busy with stage business during the longer monologues and songs, executed with amazing comedic instincts, particularly by the chamberlains and supernumeraries. (Sometimes this backfires; more than once, the chorus pulls the focus away from the main action. On the other hand, missing plot points doesn't typically impair one's ability to follow a Gilbert and Sullivan play, and seeing the chorus in action makes up for it.) The costuming of the court of Monte Carlo in red and black, with one in green, would never work without Jenna Lourenco's excellent costume design, of which this visual joke is only one small element.

Moreover, most of the cast give fine performances, not an easy thing for a director to

ensure with over 30 people to work with. Sweet's Ludwig shows all the discomfort and low breeding of a man more fit for comedic acting than ruling a duchy, looking further and further out of his depth as the second act progresses. Weinstein gives Rudolph a perfect snivel, and his agony upon learning of the conspiracy contains just the right amount of larger-than-life emoting. Particularly fine, too, are Daly, charming and full of presence, and Albir, whose depiction of the ideal "grand duchess" role is not to be missed.

The production is admittedly not without its flaws. Many of these are musical; the orchestra, though typically competent, seemed to miss a few notes. And while the chorus sings well and most solos are strong, not all of the leads mesh well: the quintet that ends the first act, fine when one person sang alone, lost volume and confidence when all five sang together.

The choreography tends to be fairly simple, and while skipping in lines across the stage or moving in wide circles lends a frivolous air that matches the tone, it also loses its interest quickly. Of course, with as large a cast as this one, the stage inevitably ends up filled to capacity with townspeople; the choreographers didn't have much room to work with, and indeed the dances sometimes feels a little cramped.

But these are not reasons to miss *The Grand Duke*. With as much fine acting, direction, costuming, and set work as this production has, the occasional weakness is easy to overlook. If you go see the show, be prepared for silliness; but surely this close to the end of the semester, a little silliness is a welcome break. Certainly silliness of this quality is.



Ana Albir '04 plays Julia Jellicoe in Gilbert and Sullivan's *The Grand Duke*.

FILM PREVIEW

'AI' In the Works ...

Haley Osment, Media Lab Bigwigs Discuss Film

By Erik Blankinship
STAFF WRITER

Students and press were treated to a frothy discussion on artificial intelligence (AI) in adulation of Stephen Spielberg's latest movie, *AI*. In attendance were longtime Spielberg collaborator producer Kathleen Kennedy and *Sixth Sense* actor Haley Joel Osment.

Under a very large banner for the film, the press event was introduced by Professor Rodney Brooks as a discussion about *AI* the movie, *AI* the reality, and *AI* the future, "which none of us know a damn thing about." Despite this opening claim, Professor Kurzweil predicted that by 2030 that there will be no distinction between human AI and machine AI, as researchers will reverse engineer the human brain.

Spielberg delivered a videotaped apology on Tuesday for missing the lectures of four MIT artificial intelligence (AI) professors. Students and press were in attendance for the director's recorded remarks and a first-ever look at his new film *AI*.

Professor Sherry Turkle gave a brief history of how children have described artificially "alive" things, citing research from Piaget on how children in the 1920s described moving things as "alive" and how these conceptions have changed with the advent of digital toys like Simon, and more recently, the Furbie.

A brief clip from *AI* the movie was introduced by producer Kennedy, who apologized for its roughness and announced she was returning to California that evening to contin-

ue work on the film.

In the dialogue of the scene, actor William Hurt described building a "mecha" who could truly love to a crowd of suits. His lines provide the loose scientific exposition for the film, in a manner similar to *Jurassic Park*'s animated "Mr. DNA."

I also saw a hint of the soft-seeping lighting of Professor Henry Jones' college library in *Raiders of the Lost Arc*. This isn't a complaint that the film looked derivative — I happen to like Spielberg's repertoire. The science fiction visuals were introduced when Hurt opens the mechanical face of a "mecha" to remove her computer brain, which prompts one tear to fall from her eye onto her titanium cheek (a nod to *Blade Runner*?).

The clip ended, and the audience was free to question Kennedy and Osment about how MIT's research influenced the production ("nothing" said Kennedy). Osment described how he played a robot as "basic, simple, deliberate ... not robotic, but not human ... something you've never seen before" and also commented that he never blinks once in the film. One member of the audience questioned the need for another "robot" film, citing the *Terminator*, *D.A.R.Y.L.*, the Data Analyzing Robot Youth Lifeform, and *Small Wonder* as evidence of an over-saturated market. The question prompted hissing from the audience and a response from Kennedy to "see the film and decide for yourself."

When asked what it was like to work with the mysterious "sentient machine therapist" Jeanine Salla, Osment said he had not met her



Still in production, *AI (Artificial Intelligence)* combines the skill of Director Steven Spielberg (center) with actors Haley Joel Osment (left) and Jude Law.

but has heard "good things about her." Before leaving, Kennedy mentioned she would leave Dr. Salla's business cards for the audience.

For those not "in the know," Dr. Jeanine Salla is listed in the credits for the film with the title "sentient machine therapist." In the last few weeks, some web surfers uncovered her personal web site at "Bangalore World University" and links to her students' web sites, robot liberation organizations, and news stories about the death of colleague "Evan Chan."

An online organization quickly formed — the Cloudmakers — to solve the puzzles surrounding Chan's death. The puzzles involve web site passwords, voice mailbox systems, and hidden HTML links. The *AI* online game is similar to an old M.I.T. Media Lab project,

"Lurker," and plays like what gamers' anticipate from Electronic Arts' *Majestic*. It was recently revealed that Microsoft is behind the game which didn't seem quite right, until a few remembered that Microsoft recently acquired super talented gamer makers Bungie, makers of *Myth* and *Marathon*.

The evening after the *AI* presentation, the Cloudmakers had contacted me via email requesting a copy of Dr. Salla's business card. A few challenged my identity in online news forums, claiming I was not a real student but rather a Warner Bros. plant. Needless to say, it was a bizarre experience to become a character in the game for a day ... did the Cloudmakers perhaps know about my previous work experience with Dr. Salla?

ON THE SCREEN

— BY THE TECH ARTS STAFF —

The following movies are playing this weekend at local theaters. The Tech suggests using http://www.boston.com for a complete listing of times and locations.

- ★★★★ Excellent
- ★★★ Good
- ★★ Fair
- ★ Poor

Amores Perros (★★★★½)

A horrific car crash ties together the lives of five emotional refugees in what is certainly one of the most important cultural and stylistic movies to ever come out of Mexico. Beautifully shot (and gut-wrenchingly violent), *Amores Perros* is a must-see for devotees of international cinema, and for anyone interested in, or familiar with, Latin American culture. Look for more good things from a director hailed as the Tarantino of Mexican Cinema, Alejandro Gonzalez Inarritu. — Jed Horne

American Desi (★★½)

MIT alumnus Deep Katdare stars as Krishna "call me Kris" Reddy, a young Indian-American so deeply assimilated by American culture that only a cute Indian-American girl can lure him back toward his native side. Writer/director Piyush Dinker Pandya sketches some hilarious portraits of kids caught between cultures, but ultimately the film seems to settle for being a very lighthearted and fairly uninteresting romantic comedy. Any serious issues surrounding cultural conflict are left entirely untouched. In the end, the film will only entertain those with a healthy appetite for Indian in-jokes. — Amandeep Loomba

Blow (★★★)

Johnny Depp plays George Jung, the ambitious young capitalist responsible for creating the Colombian cocaine drug trade. Nick Cassavettes's and David McKenna's script seems to overly sympathize with Jung and omits the ruthlessness commonly associated with cocaine trafficking. However, director Ted Demme's biopic does rise above its own shortcomings. With a great lead turned in by Depp and a wonderful supporting role from Ray Liotta, *Blow* does deliver and is one of the better films available in current release. — Joseph Graham

Blow Dry (★½)

As a national hairdressing contest invades a small town in Britain, ex-national champion Phil sharpens up his scissors for the fight of his life against his former rivals in Simon Beaufoy's (*The Full Monty*) new movie, *Blow Dry*. Unfortunately, it is a feckless mish-mash of oddly restrained campiness, sappy sentimentality, and '80s-teen-movie rivalry. — JH

Bridget Jones's Diary (★★★★)

Starring Renée Zellweger, Colin Firth, and Hugh Grant, *Bridget Jones's Diary* is an entertaining screen adaptation of Helen Fielding's novel. For any girl that has ever struggled with weight, cooking, or men, this movie is a good laugh and shows what one often would like to say but refrains from saying. However, if you're in the mood for a large amount of action or very deep drama, don't choose this movie. — Pey-Hua Hwang

Cast Away (★★)

All the physical courage and technical accomplishments of *Cast Away* are not enough to balance its unwieldy structure and make it anything but an extended catalogue of human misery. Just like the central Tom Hanks performance, it is courageous and elaborate — and surprisingly joyless and little fun to watch. — Vladimir Zelevinsky

Chocolat (★★★★)

A nomad opens a chocolate shop during Lent in a small French village. She fights the puritanical mayor while serving her friends a heavenly slice of sin. Juliette Binoche, Judi Dench, and Johnny Depp score in this scrumptious tale of romance and food. A word of caution: make sure you watch this movie on a full stomach, because you'll want to gorge yourself on Godiva afterward. — Mike Hall

Crocodile Dundee in Los Angeles (★½)

Paul Hogan returns as the Outback's famous Croc-hunter Mick Dundee and the only thing different this time out is the film's setting. Mick deadpans his way through all the LA hot spots like the proverbial fish out of water, again. Fans of the popular original *Dundee* flick(s) may



Tom Green plays Gordon (not Freddy) in his glorified television show of a movie, *Freddy Got Fingered*.

enjoy the third installment as long as nothing new is expected. — JG

Driven (★★)

Director Renny Harlin mixes stock footage, choreographed stunt driving, and computer generated effects with very impressive results. Unfortunately, Sylvester Stallone's screenplay lacks any kind of convincing human drama. *Driven* provides plenty of action while the story and characters take a back seat. — JG

Down to Earth (★★½)

Chris Rock plays Lance Barton, an aspiring stand-up comedian who meets an untimely death. He strikes a deal with heavenly angels Keyes (Eugene Levy) and King (Chazz Palminteri) to be reincarnated as a rich, white business tycoon. Chris Rock plays his character with genuine enthusiasm and sincerity, and does not even utter a naughty word, conforming to the film's PG-13 rating. — Erik Blankinship

Enemy At The Gates (★★★)

This movie is a combination of an epic war story and a tense game of the hunter and the hunted, as Jude Law and Ed Harris play opposing Russian and German snipers, respectively, in World War II. Joseph Fiennes acts as the Russian press officer who makes a legend of Vassili Zaitsev (Law) and brings him to the attention of the German army, as well as forming part of a love triangle between Zaitsev and female sniper Tania (Rachel Weisz). This is a tale of trust, tragedy, and tension. Those disturbed by graphic violence will not want to see this movie. — PH

Freddy Got Fingered (★★)

A bizarre, incompetent son, Gordon (Tom Green), encounters lame jobs, love, wild animals, and shocked people in his hilarious, action-packed quest to please his slightly disturbed, controlling father (Rip Torn). *Fingered* makes for a must-see for fans of Green's televi-

sion show, which is essentially duplicated in the movie. — Sandra Chung

Heartbreakers (★★)

Sigourney Weaver and Jennifer Love Hewitt star as a devilishly crude mother-and-daughter conning team. The mother hooks a rich bachelor, marries him, and catches him in a compromising position with another woman (her daughter). Acted poorly, written decently, the only merits of the movie stem from its unorthodox and frighteningly unbelievable theme. — Devdoot Majumdar

Memento (★★★½)

Christopher Nolan's *Memento* is a puzzle box of a movie, breaking up its narrative and shifting it in time, and is superbly successful in putting the audience in the same frame of mind as the ticking bomb of a protagonist, who is pursuing a criminal while suffering from memory loss. Top-notch suspense, dark comedy, and abundance of meaning make this a movie to be remembered. About half of the cast of *The Matrix* appears in colorful supporting parts. —VZ

The Mexican (★★½)

The quest for a sought-after object is usually filled with excitement and heartbreaks along the way. *The Mexican* is filled with Julia Roberts, a gay kidnapper, and Mexican thieves. Overall, it is a great comedy that is light on an action-packed plot and character development. Though full of laughs, the film will leave you wanting more. — Jacob Beniflah

One Night at McCool's (★★★★)

Liv Tyler shines as a seductress with an unexpected ulterior motive who brings passion, crime, and happiness into the lackluster lives of three very different men. — SC

Snatch (★★★★½)

Madonna's new hubby Guy Ritchie, bolstered by the runaway success of his first feature film, *Lock, Stock and Two Smoking Barrels*, can hardly be blamed for sticking to a successful formula — take roughly six Tarantino-esque criminals, throw in a touch of wry British humor, and mix. This fantastically entertaining movie, which deftly mixes a botched diamond heist with the chaos of underground boxing, is a must-see, especially for anyone unfamiliar with Ritchie's first film. — JH

You Can Count On Me (★★★★½)

Winner of the 2000 Cannes Grand Jury Prize, this is a poignant film about a sister and a brother. Offering provocative writing, sincere acting and engaging editing, this film treats you like a friend who's been inadvertently asked to sit in the living room as a family drama begins unfolding. The characters are real and their challenges tangible. — EB



Paul Hogan as Mick Dundee stars in the latest incarnation of the *Crocodile Dundee* saga, *Crocodile Dundee in Los Angeles*. Here he is again with Linda Kolzowski as Sue Charleton.

Clubs

Axis
13 Lansdowne St., 617-262-2437

Sundays: See Avalon below.
Mondays: *Static*. Gay, casual dress. \$5, 18+.
Thursdays: *Chrome/Skybar*. Progressive house, soul, disco; dress code. \$10, 19+; \$8, 21+.
Fridays: *Spin Cycle*. Progressive house, 80s. \$12, 19+; \$10, 21+.

Avalon
15 Lansdowne St., 617-262-2424

Sundays: *Gay Night* (with Axis on long weekends). Featuring hardcore house and techno. \$10, 21+.
Thursdays: *International Night*. Eurohouse. \$10, 19+.
Fridays: *Avaland*. House. \$15, 19+.
Saturdays: *Downtown*. Modern house, club classics, and Top 40 hits. \$15, 21+.

Circle
Every Tuesday, 9 p.m.-1 a.m. A small but energy-filled place to hear local DJs spin a range of techno/trance. No age restrictions, no dress code. At the VFW, 371 Summer St, Somerville (take the Red Line to Davis Square). \$5, \$1 before 9:30.

Karma Club
9 Lansdowne St., 617-421-9595

Sundays: "Current dance favorites" by guest DJs. Cover varies.
Tuesdays: *Phatt Tuesdays*. With Bill's bar, modern dance music. \$10.
Wednesdays: *STP*. Gay-friendly, house. \$15, 21+.
Thursdays: *Groove Factor*. House.
Fridays: *Pure*. Drum and bass, guest DJ. \$15, 19+.
Saturdays: *Elements of Life*. International House. \$15.

ManRay
21 Brookline St., Cambridge, 617-864-0400

Wednesdays: *Curses*. Goth. Appropriate dress required. \$5, 19+; \$3, 21+.
Thursdays: *Campus*. Popular tunes + House. Gay, casual dress. \$10, 19+; \$7, 21+.
Fridays: *Fantasy Factory* (First and third Friday of the month. Features kinky fetishes and industrial music.) *Hell Night* (every second Friday, 19+. Includes Goth music.) *Ooze* (the last Friday of the month.) \$10, 21+. reduced prices for those wearing fetish gear.
Saturdays: *Liquid*. Disco/house + New Wave. \$15, 19+; \$10, 21+.

Popular Music

Axis
13 Lansdowne St., 617-262-2437
Next: 423-NEXT

May 14: Kottonmouth Kings.

Avalon
15 Lansdowne St., 617-262-2424

May 4: Dave Waxman.
May 10: Blues Traveler.
May 11: Jonatha Brooke.
May 12: DJ Keoki.
May 12: Psychedelic Furs.
May 13: Government Mule.
May 18: Sandra Collins.

Berklee Performance Center
Berklee College of Music
1140 Boylston St.
Free student recitals and faculty concerts, 4 p.m. and 7 p.m. some weekdays. For info on these concerts, call the Performance Information Line at 747-8820.

May 5: Comics 4a Cause - Brett Butler.

Club Passim
47 Palmer St, Cambridge, 617-492-7679

Tuesdays: Open Mic at 8 p.m. (sign up at 7:30). \$5.
May 4: Cliff Eberhardt, Kate Wallace.
May 5: Willy Porter.
May 6: Carl Cacho and Alastair Mook.
May 9: Storytelling Concert with David Massengil.
May 10: Clandestine and Pamela Morgan.

Fleet Center
Ticketmaster: 931-2000.
Jun. 5-6, 8-9: U2. Sold out.

The Middle East
Central Square, 354-8238
Ticketmaster: 931-2000.

May 4: Angry Salad.
May 9: Black Beetle.
May 10: Miriccle Orchestra, Amusia, Gideon Freudman, Sunbather.
May 11: Mr. Lif.
May 11: Johnny Wishbone.
May 12: Am Stereohigh Cellings.
May 13: Cappadonnaremedy.
May 16: Truckerspsychotic Larry.

On The Town

A weekly guide to the arts in Boston

May 4 - 11

Compiled by Fred Choi

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



MICHAEL HALSBAND—3AM

The Psychedelic Furs, the band which started "modern rock" back in the '80s, play at Avalon on Saturday, May 12.

Orpheum Theatre
1 Hamilton Pl., Boston, 617-679-0810
Ticketmaster: 931-2000

May 6: Alejandro Sanz.
May 25: Robert Plant.
Jun. 9: Lil Bow Wow.

Tsongas Arena
Lowell, MA
Ticketmaster: 931-2000.

May 20: Royal Hanneford
Circus.
Jun. 22: Green Day.

Tweeter Center for the Performing Arts (Great Woods)
885 South Main St., Mansfield, MA 02048
Ticketmaster: 931-2000

Jun. 11: The Black Crowes and Oasis.
Jun. 22: The Allman Brothers Band.
Jul. 25: Bon Jovi.
Aug. 8: Ozzfest 2001.

Jazz Music

Regattabar
Concertix: 876-7777
1 Bennett St., Cambridge 02138, 617-662-5000

May 4-5: Mike Stern Quartet.
May 10-12: Gonzalo Rubalcaba Trio.

Scullers Jazz Club
DoubleTree Guest Suites, 400 Soldiers Field Rd., Boston, 617-562-4111

May 4-5: Shirley Horn Trio.
May 8: Wesla Whitfield.
May 10: Ronnie Earl Duo.
May 11-12: David Fathead Newman.
May 16: Geoffrey Hicks.
May 17: Sabor De Cuba.
May 18-19: Roy Hargrove.

Classical Music

Boston Symphony Orchestra
Tickets: 266-1492.

Performances at Symphony Hall. Call for ticket prices.
For MIT Students: Tickets are offered for Th. evening concerts (8 p.m.) and Fri. afternoon concerts (1:30 p.m.) and are available on the day of the concert only at the BSO Box Office at Symphony Hall (301 Mass. Ave. Open 10 a.m.-6 p.m.). Two tickets may be obtained with two current valid MIT student IDs,

subject to availability. For updated MIT student ticket availability, call 638-9478 after 10 a.m. on the day of concert.

May 4: Mahler: Songs from *Des Knaben Wunderhorn*; Shostakovich: Symphony No. 5. Thomas Hampson, baritone; Seiji Ozawa, conductor. Sold Out.

Boston Pops
Tickets: 266-1492.

Performances at Symphony Hall. Call for ticket prices. Performances conducted by Keith Lockhart unless otherwise noted. The Pops performs most days starting May 8, generally at 7:30 p.m. on Sundays and Mondays and at 8 p.m. other days of the week. Check <www.bso.org> for full schedule.

May 8 at 8 p.m.: *Opening night at the Pops*. John Lithgow, special guest; Mayuko Kamio, violin. A special tribute to the Symphony Hall centennial, including a new film about the Boston Pops at Symphony Hall accompanied by the orchestra. The program also includes "Harlequin's Journey" — composed by Pops conductor Max Zach, and performed in May of 1901 when the Pops appeared for the first time in Symphony Hall. Tickets \$135-\$80.

May 9 at 8 p.m.: Same program as May 8.

Theater

Les Miserables
Through May 20: The classic Broadway epic returns to Boston. At the Colonial Theatre (106 Boylston St., Boston). Show is at 8 p.m. except for Sundays (shows at 1:30 p.m. and 7:30 p.m.), matinee Apr. 21 (2 p.m.) and no show Mondays. Tickets: General: \$24, \$54, \$64, \$69, \$74. Call Ticketmaster to make reservations (617-931-2000).

Desperately Aloof

Through May 12 at 8 p.m., at The Community Church of Boston, 565 Boylston Street, in Copley square. The Ubiquity Stage presents the world premiere production of *Desperately Aloof*, a candid look at gay life, detailing the very personal lives of some of society's deviants, misfits, and social outcasts. In the style of Lily Tomlin and John Leguizamo, the piece focuses on

six very unique characters - both male and female - who present their stories in a series of monologues. The play is a celebration of gay sub-cultures and the deviants who have risen above the stereotypes to tackle adversity head-on and survive in their own way. Tickets are normally \$10, (Monday and Tuesday is pay what you can). 20 percent off for members of the MIT community with MIT ID and group rates are available for 10 or more for any night.

Comedy Connection
Mon.-Wed. at 8 p.m.; Thurs. 8:30 p.m.; Fri. and Sat. 8 p.m.; 10:15 p.m.; Sun. 7 p.m. The oldest comedy club in Boston showcases big-name, national comedians on weekends and up-and-coming local talent during the week. At 245 Quincy Market Place, Faneuil Hall, Upper Rotunda, Boston. Admission \$10-\$8 (weekend prices vary). Call 248-9700 for more information and a complete schedule.

Blue Man Group
Charles Playhouse, 74 Warrenton Street, Boston, indefinitely. Curtain is at 8 p.m. on Wednesday and Thursday, at 7 and 10 p.m. on Friday and Saturday, and at 3 and 6 p.m. on Sunday. Tickets \$35 to \$45. Call 426-6912 for tickets and information on how to see the show for free by ushering.

Exhibits

The Institute of Contemporary Art
50 Dalton St., Boston. (266-5152), Wed. & Fri: 12 p.m. - 5 p.m.; Thurs: 12 p.m. - 9 p.m.; Sat. - Sun: 11 a.m. - 5 p.m. Admission \$6 adults, \$4 seniors and students, free Thursday after 5 p.m.

Isabella Stewart Gardner Museum
280 The Fenway, Boston. (566-1401), Tues.-Sun, 11 a.m.-5 p.m. Admission \$10 (\$11 on weekends), \$7 for seniors, \$5 for students with ID (\$3 on Wed.), free for children under 18. The museum, built in the style of a 15th-century Venetian palace, houses more than 2,500 art objects, with emphasis on Italian Renaissance and 17th-century Dutch works. Among the highlights are works by Rembrandt, Botticelli, Raphael, Titian, and Whistler. Guided tours given Fridays at 2:30 p.m.

Museum of Fine Arts

465 Huntington Ave., Boston. (267-9300), Mon.-Tues., 10 a.m.-4:45 p.m.; Wed., 10 a.m.-9:45 p.m.; Thurs.-Fri., 10 a.m.-5 p.m.; Sat.-Sun., 10 a.m.-5:45 p.m. West Wing open Thurs.-Fri. until 9:45 p.m. Admission free with MIT ID, otherwise \$10, \$8 for students and seniors, children under 17 free; \$2 after 5 p.m. Thurs.-Fri., free Wed. after 4 p.m.

Mon.-Fri.: introductory walks through all collections begin at 10:30 a.m. and 1:30 p.m.; "Asian, Egyptian, and Classical Walks" begin at 11:30 a.m.; "American Painting and Decorative Arts Walks" begin at 12:30 p.m.; "European Painting and Decorative Arts Walks" begin at 2:30 p.m.; Introductory tours are also offered Sat. at 11 a.m. and 1:30 p.m.

Permanent Gallery Installations: "Late Gothic Gallery," featuring a restored 15th-century stained glass window from Hampton Court, 14th- and 15th-century stone, alabaster, and polychrome wood sculptures from France and the Netherlands; "Mummy Mask Gallery," a newly renovated Egyptian gallery, features primitive masks dating from as far back as 2500 B.C.; "European Decorative Arts from 1950 to the Present"; "John Singer Sargent: Studies for MFA and Boston Public Library Murals."

Gallery lectures are free with museum admission.

Museum of Science
Science Park, Boston. (723-2500), Daily, 9 a.m.-5 p.m.; Fri., 9 a.m.-9 p.m.; Sat.-Sun., 9 a.m.-5 p.m. Admission free with MIT ID, otherwise \$9, \$7 for children 3-14 and seniors.

The Museum features the theater of electricity (with indoor

thunder-and-lightning shows daily) and more than 600 hands-on exhibits. Ongoing: "Discovery Center"; "Investigate! A See-For-Yourself Exhibit"; "Science in the Park: Playing with Forces and Motion"; "Seeing Is Deceiving."

Ongoing: "Friday Night Stargazing," Fri., 8:30 p.m.; "Welcome to the Universe," daily; "Quest for Contact: Are We Alone?" daily. Admission to Omni, laser, and planetarium shows is \$7.50, \$5.50 for children and seniors.

Other

Ousmane Sembene
Through May 8: The Harvard Film Archive is deeply honored to welcome Ousmane Sembene, this year's recipient of the fourth Genevieve McMillan and Reba Stewart Fellowship Award for Distinguished Filmmaking. The foremost figure in the evolution of African cinema, Ousmane Sembene remains, at seventy-eight, its most provocative and fiercely independent spirit. Hailing from the former French colony of Senegal, Sembene's work often centers on identity problems encountered by Africans caught between Africa and Europe, tradition, and modernization. The concentrated realism of his early classics evolved into a rich, wide-ranging mixture of black comedy, political allegory, sophisticated satire, traditional African forms, and biting social criticism.

All festival films will be screened at Harvard Film Archive, located at the lower level of the Carpenter Center for the Visual Arts, 24 Quincy St. Cambridge 617-495-4700 for more info. or visit <www.harvardfilmarchive.org> for a complete schedule. Tickets \$7, \$5 students, seniors. Tickets may be purchased at the Harvard Box Office, located at: Holyoke Center Arcade, 1350 Massachusetts Ave., Cambridge, MA. For ticketing info, call 617-496-2222 or TTY: 617-495-1642.

May 5, 6 p.m.-7 p.m.: Public reception for Ousmane Sembene at the Carpenter center.

May 5 at 7 p.m. (Dir. in attendance), May 7 at 7 p.m.: *Faat-Kine* (Dir. by Ousmane Sembene, Senegal, 2000, 35mm, color, 118 min, French with English subtitles). Ousmane Sembene's latest release is a warm, often funny story of a single mother, the manager of a sparkling new gas station, who drives an elegant car, lunches with fashionably dressed friends, and worries about her children passing their high school finals. But Sembene contextualizes his heroine's thoroughly modern triumphs and anxieties within the complex culture and politics of Dakar, with its contrastive architecture of shantytowns and high-rises, streets crowded with cattle and Mercedes, and women whose lives have been shaped as much by tribal custom and male prejudice as by their twenty-first century aspirations. An examination of the changing roles of women in Senegalese society.

17th Annual Boston Gay & Lesbian Film/Video Festival

May 2-20. Tickets \$9 (students, seniors, members \$8). Tickets for opening night films on May 2 and 3 are \$12 (students/seniors/members \$10). Tickets for "Chrissy" on May 20 are \$5. Festival highlights include: *Julie Johnson* (May 2), starring Courtney Love and Lili Taylor: the world premiere of *All Over the Guy* (May 3), with visiting director Julie Davis; *Southern Comfort* (May 5), winner of Best Documentary at the Sundance Film Festival, with visiting director Kate Davis; *Hedwig and the Angry Inch* (May 10), winner of the Sundance Festival Audience and Director awards; and *Nico and Dani* (May 18), winner of the Youth Award at the Cannes Film Festival.

Pacific Northwest Ballet - The Sleeping Beauty

Through May 20, at the Wang Center (270 Tremont St., Boston, Mass.). Spectacle rules when Pacific Northwest Ballet unleashes the Seattle premiere of "The Sleeping Beauty," PNB's first new full-length story ballet in five years. Choreographer Ronald Hynd, formerly a principle dancer with the English Royal Ballet, has worked extensively in America with the Houston Ballet and American Ballet Theatre. Call 482-9393 to make reservations or for more information.

Anna Myer and Dancers

May 4, and 5 at 8 p.m., May 6 at 6 p.m. At the Green St. Studios, 185 Green St., Cambridge. Since its inception in 1992, Anna Myer and Dancers has performed the innovative choreography of Anna Myer to a steadily growing audience throughout the northeast, most notably Boston and New York City. Anna Myer's rich and varied choreography has caught the attention and respect of some of the country's most prominent dance critics, including Jennifer Dunning of *The New York Times*. Anna Myer's unique language of movement is a fusion of classical, modern, and post modern approaches to dance; it is the outcome of Myer's extensive training as a scholarship student with American Ballet Theatre as well as her performance history with the Boston Ballet and various modern dance companies. Tickets \$15, children \$10, \$7.50. For reservations, call 617-864-3191. For more information, visit <www.annamyerdancers.org>.

FRED'S PICK OF THE WEEK

Down with Science

by Jennifer DiMase



the crass rat

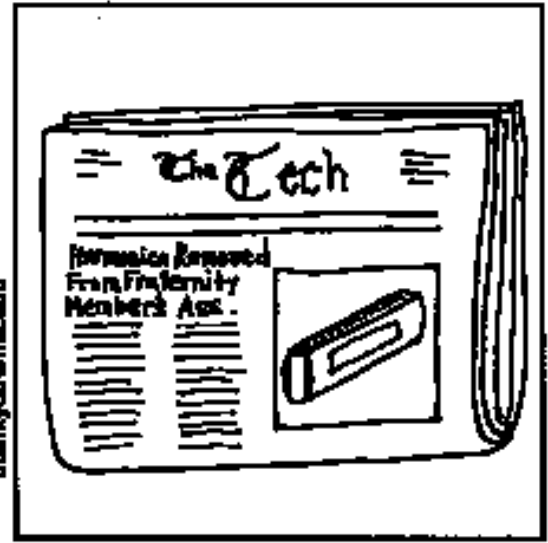
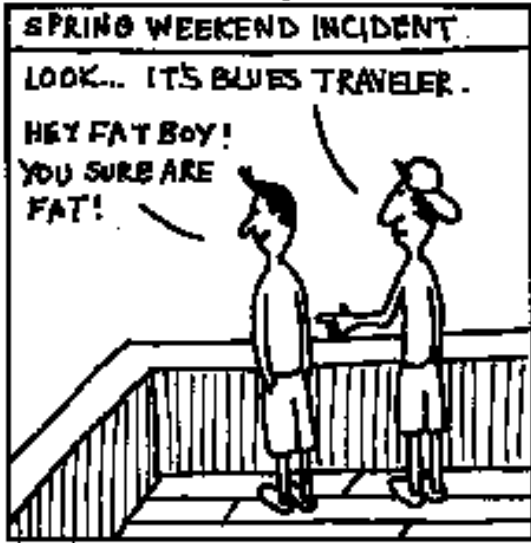


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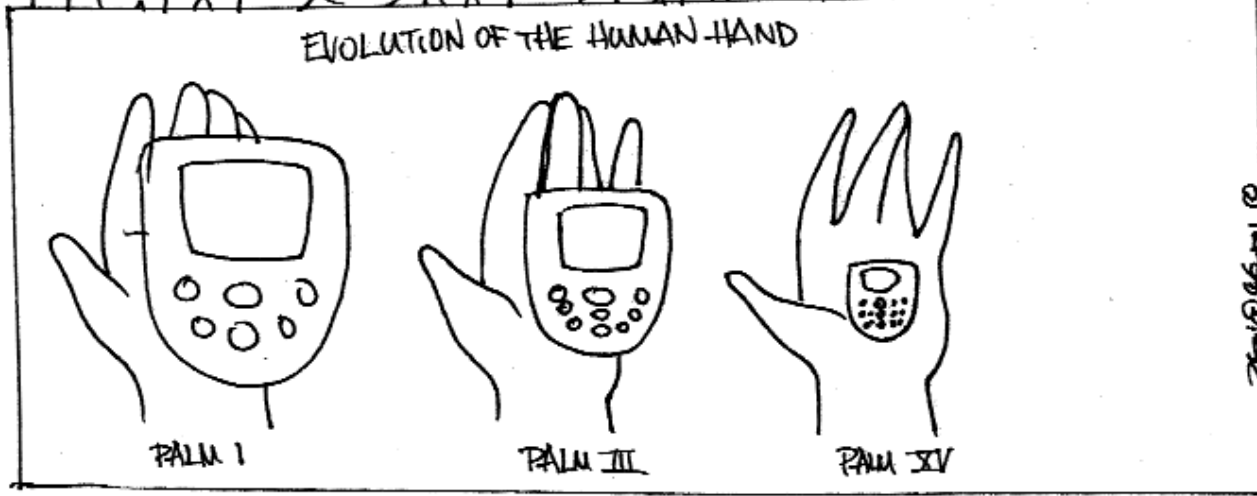
Thank You for your Interest

by Dave, Kara, and Raj



nandomelano

(Sci-Dition)



FoxTrot

by Bill Amend

Fun With Clip Art
Aaron Isaksen



"Dude...I'm gettin' some fat f---kin' hits on this sh--!"

Crossword Puzzle

Solution, page 21

TechCalendar

Visit and add events to TechCalendar online at <http://tech-calendar.mit.edu>

Friday, May 4

9:00 a.m. - 5:00 p.m. – **Spring Craft Fair.** Technology Community Crafters' annual sale of original gifts and wares (pottery, jewelry, knick-knacks, baby goods, artwork) by local artists to raise funds for the Women's League Scholarship Fund. free. Room: Lobby 10. Sponsor: Technology Community Crafters.

11:00 a.m. - 1:00 p.m. – **Informational Session with Dell and Intel.** Representatives from Dell Computer and Intel will host an informational session. Topics include Storage Solutions using FibreChannel Technology; P4 Technology by Intel and Front End Server Technology by Intel. free. Room: Bush Room. Sponsor: MIT Computer Connection.

12:00 p.m. - 1:00 p.m. – **AI-Anon Open Discussion: AI-Anon Meeting.** free. Room: E25-101. Sponsor: MIT Medical.

4:00 p.m. - 6:00 p.m. – **Two Legends: Dietrich and Piaf.** Bilingual Cabaret for Foreign Language and Literature Majors, Minors and Concentrators. free. Room: Killian Hall. Sponsor: Foreign Languages & Literatures.

4:15 p.m. - 5:15 p.m. – **A Universal Approach to Quasisymmetric Generating Functions.** Refreshments will be served at 5:30 p.m. in Room 2-349. free. Sponsor: Combinatorics Seminar. Department of Mathematics.

6:00 p.m. - 7:30 p.m. – **Personal Vision Statement.** Kevin Ford, Intersarsity Christian Fellowship staff member, and Todd Hastings, GCF President, will speak on what it means to have a personal vision statement — in terms of your relationship with God and how to help others in their walks with God. Afterwards, there will be free pizza and a movie. free. Room: Student Center (W20-407). Sponsor: Graduate Christian Fellowship.

7:00 p.m. - 12:00 a.m. – **MIT Anime Club Showing.** Kare Kano, library checkout distributions, feature anime. Check out <http://anime.mit.edu/> for complete details. free. Room: 6-120. Sponsor: Anime Club, MIT.

7:00 p.m. – **LSC Presents: Cast Away.** Tom Hanks gives an Oscar-nominated performance as Chuck Nolan, a Fedex engineer who is stranded on a deserted island after his plane crashes during a storm. With only a volleyball for companionship, he constructs a makeshift boat and leaves the island, hoping to return to his sweetheart Kelly (Helen Hunt) and resume his life. \$2.50. Room: 26-100. Sponsor: LSC.

7:30 p.m. – **MIT/Wellesley Toons at Wellesley College.** Co-ed a cappella ensemble. free. Room: Wellesley Chapel. Sponsor: Toons.

7:30 p.m. – **LSC Classics Presents: The Manchurian Candidate.** One of the most thrilling spy movies ever made. Starring Frank Sinatra and Laurence Harvey as Korean War soldiers who are brainwashed into becoming sleeper agents, and Angela Lansbury as Harvey's mother. Returning home after the war, Harvey rises to high political office, while Sinatra is haunted by dim memories of the brainwashing. A tantalizing glimpse into the paranoid mentality of the Cold War. \$2.50. Room: 10-250. Sponsor: LSC.

8:00 p.m. – **Bhoma.** Play by Badal Sircar. Directed by Sudipto Chatterjee. \$8, \$6 students and seniors. Room: Kresge Little Theater. Sponsor: Dramashop. 8:00 p.m. – **MIT Concert Choir.** William Cutter, director. John Harbison's *Der Abend* (premiere); Ralph Vaughan Williams' *Five Mystical Songs*; Maurice Durufle's *Requiem*; Beethoven's *Elegischer Gesang*. With Tara Shankar (MIT), mezzo-soprano; Brian Church (New England Conservatory), baritone; Adam Smith (MIT), baritone. \$2 at the door. Room: Kresge Auditorium. Sponsor: Concert Choir.

8:00 p.m. – **The Grand Duke.** MIT Gilbert and Sullivan Players production, celebrating the 100th anniversary of the show's U.S. premiere, on May 4, 1901, at MIT. \$9, \$7 MIT affiliates and senior citizens, \$6 students. Room: Sala de Puerto Rico. Sponsor: Gilbert and Sullivan Players, MIT.

8:00 p.m. – **Not So.** Workshop performance of a play written and directed by physics senior Aaron Santos. Author notes that this is the story of a family living in the perfect house and the troubles that enter when the door won't lock. Who knows what evil will enter the house? Famine? Murderers? Ballerinas? Who hasn't dreamed of having a dust free house? free. Room: Student Center Room 491. Sponsor: Music and Theater Arts Section.

10:30 p.m. – **LSC Presents: Cast Away.** Please see 7:00 p.m. listing. \$2.50. Room: 26-100. Sponsor: LSC.

Saturday, May 5

12:00 p.m. – **Emerson Scholar Student Recital.** Concert by students who have been awarded scholarships for private music study. free. Room: Killian Hall. Sponsor: Music and Theater Arts Section.

2:00 p.m. – **The Grand Duke.** MIT Gilbert and Sullivan Players production, celebrating the 100th anniversary of the show's U.S. premiere, on May 4, 1901, at MIT. \$9, \$7 MIT affiliates and senior citizens, \$6 students. Room: Sala de Puerto Rico. Sponsor: Gilbert and Sullivan Players, MIT.

7:00 p.m. – **LSC Presents: Traffic.** A compelling drama from Oscar-winning director Steven Soderbergh, weaving together four separate tales of lives affected by the War on Drugs. Starring Michael Douglas as the nation's drug czar, whose daughter becomes a heroin addict, Catherine Zeta-Jones as the wife of a drug trafficker facing prison, and Benicio Del Toro as a Mexican constable. Winner of four Academy Awards, including Best Director (Soderbergh), Best Supporting Actor (Del Toro), Best Adapted Screenplay, and Best Editing. \$2.50. Room: 26-100. Sponsor: LSC.

7:30 p.m. – **MIT/Wellesley Toons.** Co-ed a cappella ensemble. free. Room: 10-250. Sponsor: Toons.

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8:00 p.m. – **Igor and Michael: Concertos for Winds.** MIT Wind Ensemble, MIT Festival Jazz Ensemble, Frederick Harris, director, Kenneth Radnofsky, alto saxophone soloist, Evan Ziporyn, clarinet soloist. Second Boston-area performance of Michael Colgrass' concerto for alto saxophone and wind ensemble, *Dream Dancer: Fantasy of a soul moving between cultures*; Stravinsky's *Ebony Concerto, Octet for Wind Instruments*; Ticheli's *Postcards*. Pre-concert talk at 7p.m. \$2. Room: Kresge Auditorium. Sponsor: Music and Theater Arts Section.

8:00 p.m. – **The Grand Duke.** See description at 2 p.m. above. \$9, \$7 MIT affiliates and senior citizens, \$6 students. Room: Sala de Puerto Rico. Sponsor: Gilbert and Sullivan Players, MIT.

10:00 p.m. – **LSC Presents: Traffic.** Please see 7:00 p.m. listing. \$2.50. Room: 26-100. Sponsor: LSC.

Poetry Slam-off. Poetry competition between teams from MIT, the Cantab, Lizard Lounge, and

TechCalendar 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 TechCalendar web page.

Worcester. free. Room: 34-101. Sponsor: Women's Studies Program. Council for the Arts, Student Life Now, Peter De Florez Fund for Humor.

Sunday, May 6

12:00 p.m. – **Emerson Scholar Student Recital.** Concert by students who have been awarded scholarships for private music study. free. Room: Killian Hall. Sponsor: Music and Theater Arts Section.

1:00 p.m. - 5:30 p.m. – **Ballroom Dance Lessons.** Int. Fox Trot 1 at 1 p.m., Bolero 2 at 2 p.m., V.Waltz 3 at 4:30 p.m. Free social dancing from 3:30-4:30 p.m.. \$1 to \$5. Room: Sala de Puerto Rico. Sponsor: Ballroom Dance Club.

2:00 p.m. – **The Grand Duke.** MIT Gilbert and Sullivan Players production, celebrating the 100th anniversary of the show's U.S. premiere, on May 4, 1901, at MIT. \$9, \$7 MIT affiliates and senior citizens, \$6 students. Room: Sala de Puerto Rico. Sponsor: Gilbert and Sullivan Players, MIT.

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8:00 p.m. – **Not So.** Workshop performance of a play written and directed by physics senior Aaron Santos. Author notes that this is the story of a family living in the perfect house and the troubles that enter when the door won't lock. Who knows what evil will enter the house? Famine? Murderers? Ballerinas? Who hasn't dreamed of having a dust free house? free. Room: Stratton Student Center Room 491. Sponsor: Music and Theater Arts Section.

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Monday, May 7

12:00 p.m. - 1:00 p.m. – **Eudora Quick Start.** This session shows how to configure Eudora, create messages and address lists, send and receive attachments, and sort incoming e-mail. free. Room: N42 Demo Center. Sponsor: Information Systems.

1:30 p.m. - 4:30 p.m. – **Web Publishing Overview.** This three-hour lecture/demonstration session gives an overview of the electronic publishing process as it works at MIT, focusing on: how to code files using HTML tags (HTML is the HyperText Markup Language, the standard for publishing on the Web), how to upload files to the Athena system for delivery through MIT's primary Web server, web.mit.edu. Special attention is paid to issues affecting websites at MIT (MITnet rules of use, Athena file conventions, special services available on web.mit.edu, etc.) free. Room: N42 Demo Center. Sponsor: Information Systems.

3:00 p.m. - 5:00 p.m. – **Mellon-MIT Program on NGOs and Forced Migration - research presentation.** Rafael Bonoan, MIT political science department, will speak on "The Cessation Clause: Principles and Practice of Terminating International Protection," and Ms. Stichick, School of Public Health, Harvard, will talk on "Promoting the Rights of Children in Emergencies: A Case Study of Child and Community Participation in the IRC's Non-Formal Education and Psychosocial Support Project in Ingushetia." free. Room: E38-615. Sponsor: Center for International Studies.

3:30 p.m. - 4:30 p.m. – **"Energy quantization for Yang-Mills fields and Harmonic maps."** free. Room: Room 4-159. Sponsor: Differential Geometry Seminar. Department of Mathematics.

4:00 p.m. - 5:00 p.m. – **The weak temperature gradient approximation for tropical atmosphere dynamics.** free. Room: 54-915. Sponsor: MIT Atmospheric Science Seminars.

4:00 p.m. - 5:00 p.m. – **"Polaritonics."** CMSE Colloquium Series. free. Room: 13-2137. Sponsor: Center for Materials Science & Engineering.

5:30 p.m. - 6:30 p.m. – **Investigative Bible Discussion.** Wanted: Students who are curious about Who is Jesus?, and How is He relevant to my life today? If that's you, join us for an interactive search through the Bible about Jesus's life and teachings. free. Room: Student Center Private Dining Room 2. Sponsor: Graduate Christian Fellowship.

Tuesday, May 8

12:00 p.m. - 1:00 p.m. – **Telephone and Voice Mail Quick Start.** If you are new to MIT or want to learn more about the features on your telephone and voice mail, this class is just what you need. Instructors will explain features which will help you get the most out of these useful tools and talk about the most common problems and where to go for help. Attendees will learn what features are available on different phones and classes of service. You will also be able to try features on telephones in the classroom. free. Room: E19-732. Sponsor: Information Systems.

12:00 p.m. - 1:00 p.m. – **Excel User Group.** free. Room: N42 Demo Center. Sponsor: Information Systems.

12:30 p.m. - 2:00 p.m. – **Civic Environmentalism: Democratic Pathways to Sustainability - A Roundtable Series.** Moving Forward: Perspectives from Funders. free. Room: Stella Room, 7-338. Sponsor: Department of Urban Studies and Planning.

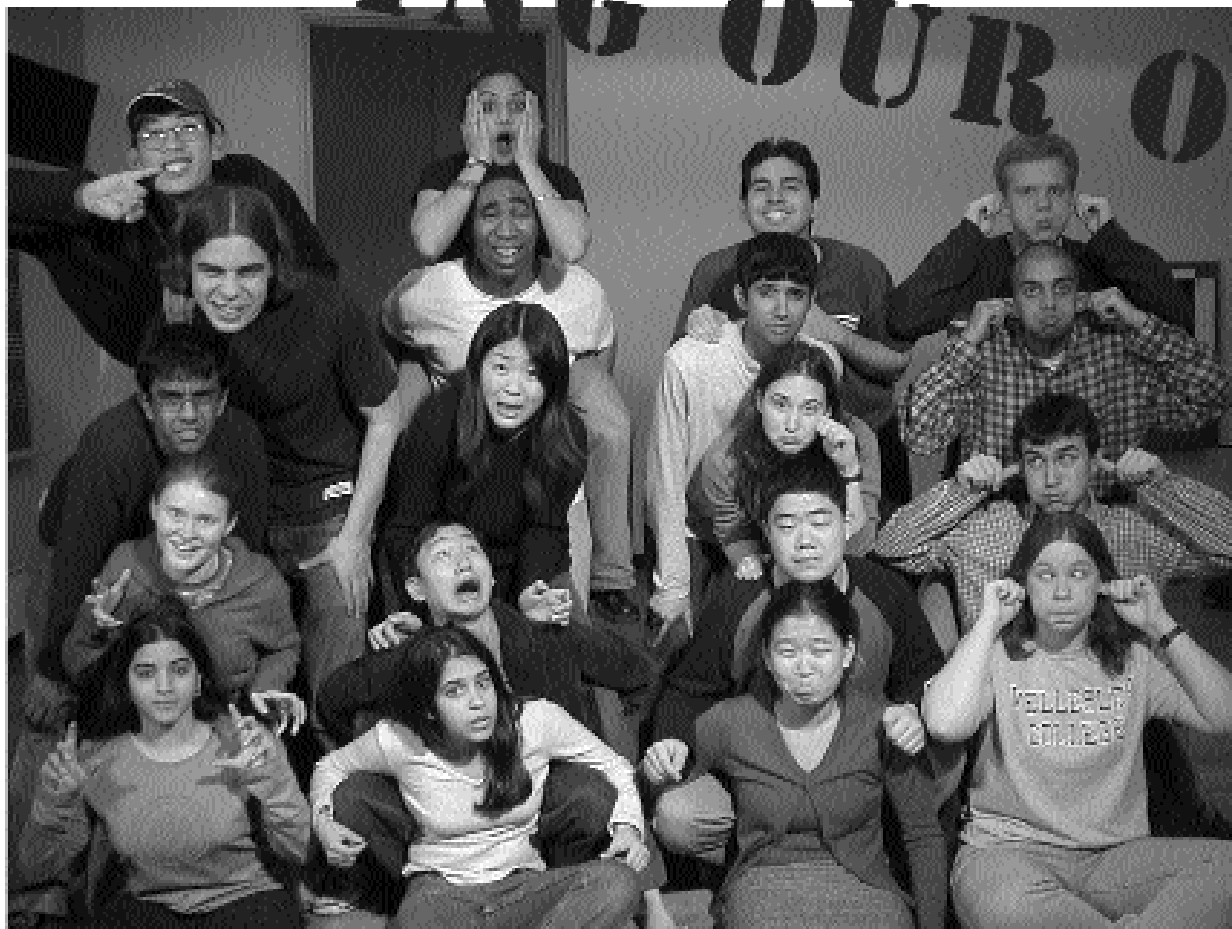
4:00 p.m. - 5:00 p.m. – **MTL VLSI Seminar Series.** Pulling the Rug out from under – The Move to High-K. free. Room: 34-101. Sponsor: MTL VLSI Seminar.

4:00 p.m. - 5:00 p.m. – **Real-Time Monitoring of Infrastructure through the Web.** free. Room: 1-350. Sponsor: Engineering & Environmental Mechanics Group. 4:15 p.m. - 5:30 p.m. – **Gas Turbine Seminar Series.** free. Room: 31-161. Sponsor: Gas Turbine Laboratory.

8:00 p.m. – **A Free LSC Sneak Preview: Sidewalks of New York.** Preview a film that won't be released until July 2001. Director Edward Burns takes the classic theme of a "circle of love" and films it in a contemporary style that infuses the scenes with emotional intensity. His fourth feature as a director explores the questions we all ask about love, sex and commitment. The first rate cast features Heather Graham, Stanley Tucci, Dennis Farina, David Krumholtz, Brittany Murphy and Rosario Dawson as the men and women who come together and break apart on the Sidewalks of New York. Attendance is limited to 300, so please come early. free. Room: 26-100. Sponsor: LSC.

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Students and staff are shown making hands at the September 1998 community workshops.



the hands sculpture

"building self; building community"

dedication ceremony

Tuesday, May 8, 2001
5:00 p.m.

Religious Activities Center - MIT Bldg W11

remarks by

Jane Gould
Rector, St Stephens of Lynn, MA
Former member, MIT Bd of Chaplains

Robert Randolph
Senior Associate Dean of Student Life

reception follows

Join us for a light pizza dinner following the dedication

hands sculpture

Exploring themes of community several hundred members of the MIT community made plaster casts of their hands in the fall of 1998. These decorated and inscribed hands were sculpted into an eight foot tall globe which was exhibited at MIT and Wellesley College. The project was facilitated by collaborative artist Sasha Bergmann-Lichtenstein.

In the spring of 2001, several dozen of these hands have been recrafted by Sasha onto a wall relief sculpture to be hung permanently in the MIT Religious Activities Center.

sponsored by

MIT Board of Chaplains
For information call 617 253 2982

The Sloan Subject Prioritization System

Bidding Dates for Fall, 2001 Classes

<http://sloanbid.mit.edu>

Leave password field blank, create new password under 'Personal Information'

Institute-wide bidding for Sloan courses:

Opens 9:00 a.m., Friday, May 11

Closes 5:00 p.m., Friday, May 25

Waitlist-Only Round for closed classes:

Opens 9:00 a.m., Monday, July 23

Closes 5:00 p.m., Tuesday, September 4

Waitlists for closed Sloan classes are part of the Course Bidding System, beginning in Round II.

Successful bids appear on your Registration Form on September 4 and will be posted on the bidding website as of July 24 -- write down your password to check results!

Students Surprised By Institute Support

Rape Awareness, from Page 1

gram will be provided by Campus Outreach Services, Inc. The organization, which is dedicated to increasing rape awareness among students, provides similar programs for first-year students at several other colleges as well.

Iyengar hopes the program will both reduce the occurrence of rapes and increase the rate at which they are reported.

According to a U.S. Naval Academy study of schools that used this program, immediately afterwards, there is usually a "dramatic increase in the number of rapes reported," Iyengar said. After that, she said, the frequency of reports flattens out to a lower level.

"It will make an environment where survivors can come forward," Iyengar said.

"Among the top 10 colleges in the country," she said, referring to the *U.S. News and World Report* rankings, "the only other school that doesn't have some kind of rape awareness program [for first-year students] is Caltech. Everyone else has some kind of program."

The cost of the program will be about \$1,000, plus the cost of training students to facilitate the discussion groups. All of the funding for the program will come from the Orientation budget.

Two years of work pays off

Jennifer A. Erwin '02, a member of Stop Our Silence, said the effort to include rape awareness programming in orientation began two years ago, in conjunction with the Social Justice Cooperative. The effort was revived this year with the participation of several other interested students.

Orientation used to include skits

intended to catalyze discussions about various issues, including rape, but the skits were removed from the Orientation program in 1996, Iyengar said.

Orientation 2000 included two similar programs, addressing the issues of sexuality and alcohol. The alcohol talk, the older of the two, was introduced in 1998; the sexuality talk was first included one year later.

Students, faculty support plan

Over 600 members of the MIT community, including Dean of Science Robert J. Silbey and Institute Professor Noam A. Chomsky, signed a petition early this term asking for mandatory rape awareness programming during Orientation.

"Statistically, rape peaks in the first three months of college," Iyengar said. While many issues are important to address during orientation, Iyengar feels that a discussion of sexual violence would potentially have the greatest impact.

"I'm glad to see the administration putting this amount of importance on sexual violence," Erwin said. "It shows they take sexual violence seriously."

Koestner more than expected

"Katie Koestner is more than we expected we'd get, because she's a very expensive speaker," Erwin said. "Since we were kept in the dark [about the administration's plans], we were kind of expecting the worst."

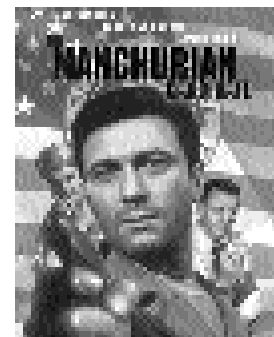
A victim of date rape during her freshman year at the College of William and Mary, Koestner went public with her story soon afterward. She is the founder of Campus Outreach Services. Her presentation includes an account of her experience and a discussion of rape and sexual violence.

THIS WEEKEND AT LSC

CAST AWAY

Friday, 7 & 10:30 pm, 26-100

Sunday, 7 pm, 26-100



The Manchurian Candidate

Friday, 7:30 pm, 10-250

TRAFFIC

Saturday, 7 & 10:30 pm, 26-100

Sunday, 10:30 pm, 26-100

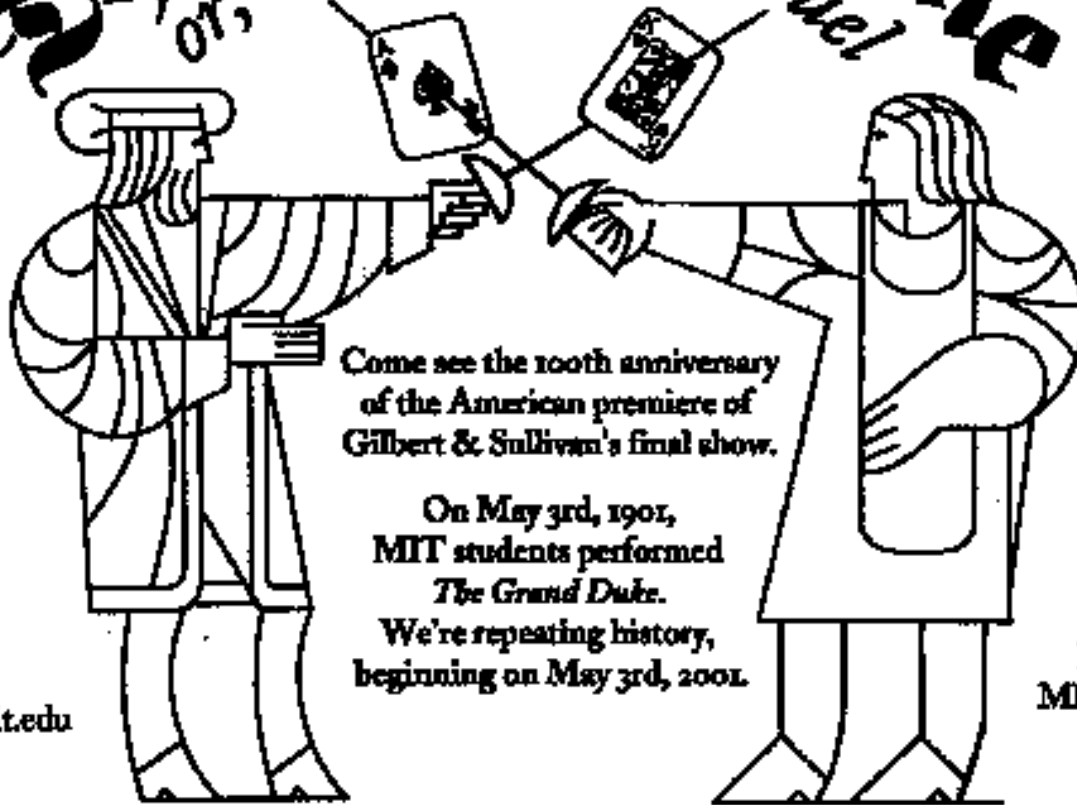
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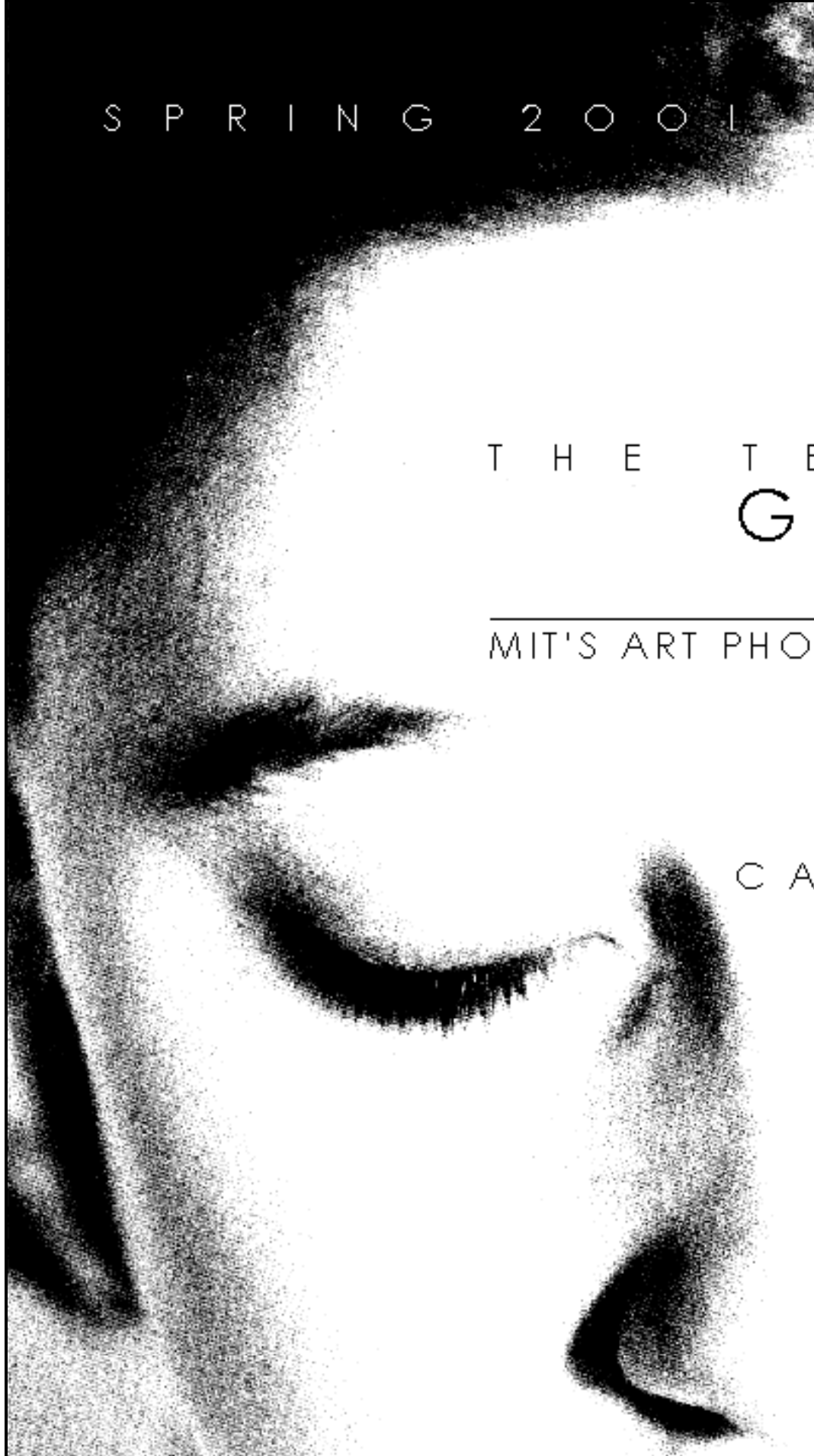
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Farewell Reception at the New England Aquarium: June 6 . Pancakes With President Vest: June 7
Infinite Connection Reception: June 7 . Tech Night at the Pops: June 7 . Great Court Gala: June 9 . Techies BBQ: June 10
ALL EVENT INFORMATION AVAILABLE AT <http://web.mit.edu/seniorweek>
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MIT Department of FACILITIES

CAMPUS CONSTRUCTION UPDATE

70 PACIFIC STREET (GRADUATE HOUSING)
Waterproofing and backfilling of foundations may result in dust and mud, and cause noise in the surrounding area.

DREYFUS CHEMISTRY BUILDING
Demolition of the existing first floor west corridor wall may cause noise outside the construction area.

MEDIA LAB
Utility relocation work at the intersection of Main and Ames Street is progressing south towards Amherst Street. Some parking may be eliminated and traffic rerouted during 7:00-3:00. The installation of underground conduit ductbanks will generate construction noise from machinery, trucks and equipment such as saws and jackhammers.

STATA CENTER
Placement of concrete on the second and third underground levels is underway. Truck deliveries may affect utility for traffic and pedestrian wayfinding.

VASSAR STREET UTILITIES
Steel sheet piling driven in by the railroad right of way may disrupt the occupants of nearby buildings including 44, 45 and 48. The digging of underground utilities behind buildings NW021, NW012, NW013, NW014 and NW015 may result in noise, dust and vibrations.

LOBBY 7
Preliminary testing of cleaning methods will be conducted this spring. Work this summer includes a cleaning of the dome and masonry, lighting replacements, and the opening of the skylight.

SEIBONS HALL
The placement of concrete may generate noise and affect utility for traffic. Activity on the Vassar Street ductbank may affect pedestrian wayfinding.

This information provided by the MIT Department of Facilities: web.mit.edu/facilities/news/construction/



WENDY GU—THE TECH

Stefan Milenkovich mesmerized a full audience in Kresge Auditorium on Sunday night with violin solos by Bach, Beethoven, Bloch, Paganini, and Dvorak.

Greek Economy 'Success Story'

Greek Minister, from Page 1

democracy," Papantoniou said. In his speech, he tried to extract lessons from the EU's experience, and the economic reforms Greece made to join it.

From 1974 to 1994, Greece's economy was "in a pathetic state," Papantoniou said. Its inflation rate and budget deficit were high, and annual growth was only at one percent. Through a series of economic reforms, Greece has been able to eliminate its budget deficit, lower inflation, and its economy has been growing at five percent annually. This turnaround has allowed Greece to join the EU.

"Greece can be seen as a success story ... but it has been an uphill struggle," Papantoniou said.

While some nations have been prevented from joining the EU by economic reasons, other countries such as Turkey and the Ukraine have not been able to join because they have not made adequate civil rights reforms, he said.

EU faces several challenges

"The challenge for Europe is to be more than the addition of its components," Papantoniou said.

"There's the danger of uncoordination" within the EU, he said, since there are 12 governments and national banks instead of one. "The more integrated [the participating countries] are, the faster reform will move."

The EU may also help standardize its member nations' practices as well. One problem with European business are the high labor taxes, Papantoniou said. Uniform standards may help ease these taxes and promote growth.

Papantoniou proposed a solution that would promote consistency and coordination within the many governments of the EU. He said he wanted to see a European Commission, a Council of Ministers, and a European Parliament with enough power to speed along decision making.

Papantoniou said that "[the current] European Parliament does not have real legislative power." The strengthened Parliament would be similar to America's House of Representatives, the Commission to our executive branch, and the Council to our Senate.

The central government, which would include politicians from all member nations, would enhance the efficiency of decisions and increase its democratic legitimacy, he said.

"The direction of political change should go to homogenization," but making one European super-state is going too far, Papantoniou said. Instead, making the EU more like a federation of states would be an appropriate move.

"National balances must be preserved," Papantoniou said. He stressed that even though the countries of the EU are growing together, each should be allowed to maintain

its national identity. The lecture, which was followed by a brief reception, was presented by the MIT International Science and Technology Initiatives.

EMC Chief Ruettgers Talks on High-Tech Business

By Matthew Palmer
NEWS EDITOR

In a time of growing doubts about the economy, EMC Corporation Executive Chairman Michael Ruettgers gave an upbeat speech about the future of high-tech business.

About a third of Wong Auditorium was filled to hear Ruettgers apply the lessons he has learned from managing information storage company EMC to other new economy businesses.

"Lots of people left business school to make their fortune ... like a gold rush," he said. While some of these people have become rich, he added, the dot-com industry as a whole has been struggling lately.

Many of the technology companies that fail, Ruettgers said, follow the downward spiral of growth, surprise, panic, and then decline.

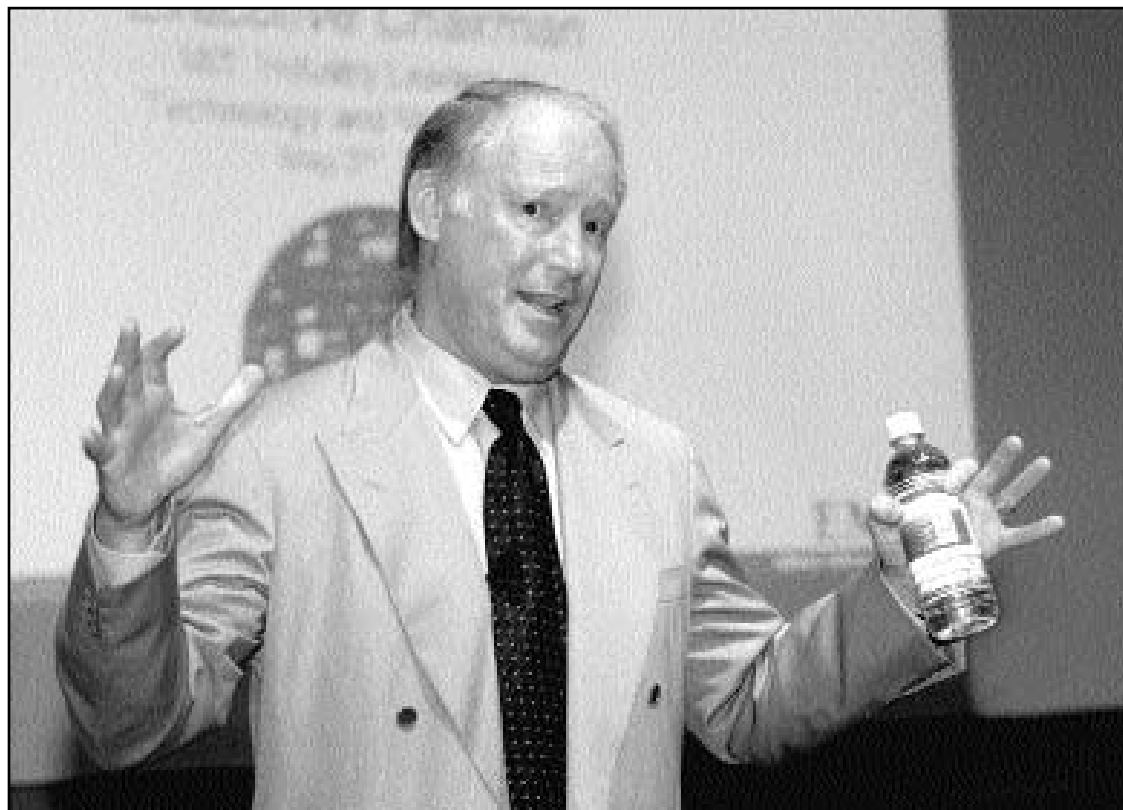
Even EMC, which had \$8.8 billion in revenues last year, has been careful to manage its success, he said.

"Always examine your successes and your failures," Ruettgers said. Many dot-com companies became profitable early on, but did not know how to maintain it and fell into what he called the "graveyard of the complacent."

Ruettgers, who graduated from Harvard Business School, was recently named one of *Business Weekly's* top 25 executives.

Storage needs increasing rapidly

The need for information storage is increasing rapidly as companies use more and more digital data, Ruettgers said. From this he predicts large growths for EMC's products,



SEPHIR HAMILTON—THE TECH

Michael Ruettgers answers questions after his speech in Wong Auditorium. Ruettgers, the Executive Chairman of EMC Corporation, spoke to a small crowd Wednesday afternoon.

which are hardware and software data storage devices.

As technologies have evolved, an increasing number of people have gained access to information, Ruettgers said. The move from mainframes to personal computers to networks has dramatically increased the amount of information available and the number of people who can see it. In the future, tech-

nologies could "allow virtually everybody on Earth to access information," Ruettgers said.

In the future, people may not connect to the Internet in the same way. "We believe in the future, most of the way to access information will not be through personal computers, but wireless," Ruettgers said.

This explosive growth leads to a greater demand for information

storage. Ruettgers said some companies tell him that their storage needs have been doubling every year and are expecting to maintain that pace.

EMC focused, redirected efforts

In 1989, Ruettgers said he realized that EMC was spreading itself too thin. It was spending too little in research and development to devel-

op a wide variety of products. That year, EMC had a \$20 million loss.

The company decided to abandon some of its markets and focus on others, even though the changeover was difficult.

"Each time we made a transition, we lost some people," Ruettgers said.

He said it is important for businesses to stay focused and yet be aware of the future. That is why EMC has a rolling planning process instead of just compiling one annual budget, Ruettgers said.

Finding skilled employees difficult

One of the main challenges Ruettgers named in running EMC is finding committed and competent employees.

He said that the difference between the best employees and average employees is 50 to one. The challenge, then, is to find those exceptional people.

Ruettgers said it is not enough for employees to be smart and to work hard. Instead, EMC has developed a 12 point list of qualifications that their employees must have, including a sense of urgency, initiative, and adaptability.

Ruettgers also advised future employees to choose their employers carefully. "The first one or two bosses you have will greatly affect your career," he said.

The lecture is part of the Industry Leaders in Technology and Management series, which is co-sponsored by the MIT Office of Corporate Relations and The Center for Technology, Policy, and Industrial Development.

The Fannie and John HERTZ FOUNDATION takes great pleasure in announcing its fall 2001 Fellowship awards.

Mr. Jim Smith Graduating in Biochemistry from Massachusetts Institute of Technology and Ms. Goldie Brown Graduating in Condensed Matter Physics from Massachusetts Institute of Technology are two of 21 Hertz Foundation Fellows chosen from a field of 570 applicants to receive a five year, \$200,000 Graduate Fellowship award in the applied physical sciences. The Hertz Foundation would like to extend its congratulations to Massachusetts Institute of Technology for attracting these Fellows to their undergraduate and graduate programs.

See www.hertzfoundation.org for more details.

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Advisers Discuss Government's Approach to Science

Science Advisers, from Page 1

a growing responsibility to explain it to those who don't, particularly in government.

History of the future

The morning was filled with former Science Advisers to the President, including William Golden, who first recommended the creation of the position to President Harry Truman.

Golden set the tone of the day with his opening remark: "We are concerned with the history of the future, rather than the history of the past." Indeed, many of the descriptions of the ups and downs of science policy in Washington that followed were framed as lessons rather than just narratives.

Edward David (adviser, 1970-73) explained how only around half of all governmental S&T initiatives can be expected to succeed, and how for many, the success or failure is politically — not scientifically — determined. H. Guyford Stever (1973-76) expanded on that thought, saying that the president's understanding of S&T policy can affect whether the right initiatives even get considered.

Philip Smith, who was associate director of OSTP under Frank Press (1977-1980), told of how a poor relationship between the White House and Congress can be a weakness in establishing a science agenda. And G.A. "Jay" Keyworth II (1981-1986) narrowed it to problems with other White House offices as a limiting factor for OSTP effectiveness.

D. Allen Bromley (1989-1993) discussed the creation of the President's Council of Advisers on Science and Technology (PCAST) in 1990 and its important role in bringing industry and academia into the political process. John H. Gibbons (1995-1998) gave a blunt perspective on how science in the White House is perceived by comparing it to a bastard at the family reunion. Neal F. Lane (1999-2001) concluded the morning by stressing the important need for increased public participation by the "citizen scientist."

A Congressional perspective

In the middle of the morning, former member of the House of

Interim Adviser Praised

IFC Awards, from Page 1

ber education program.

Phi Delta Theta received the James R. Killian, Jr. Community Service award for its commitment to volunteering.

Alpha Epsilon Phi won the Kenneth R. Wadleigh Faculty Relations Award for their close work with their adviser, Associate Professor of History Anne E. C. McCants.

Phi Sigma Kappa received the D. Reid Weddon, Jr. Alumni Relations Award for its work to maintain strong ties with alumni.

The IFC also recognized Director of Project Development Stephen D. Immerman for his work as interim FSILG adviser this year. Immerman took on the duties after the resignation of former FSILG adviser Neal H. Dorow.

Finally, the IFC introduced David Rogers, who will serve as the new Assistant Dean for FSILGs. Rogers, an administrator at the University of Connecticut, is one of four recently hired by the Institute to assist FSILGs.

Rogers expressed optimism as he begins his duties next week. "Together we can have a successful year," Rogers said.

Representatives John Porter (R-Ill., 1980-2001), gave his perspective on science in the federal government. He could only think of Thomas Jefferson and Herbert Hoover as presidents with a scientific background. Porter calculated that only 15 of the 435 members of Congress and three of the 100 members of the Senate currently have a scientific background. He also noted that President George W. Bush has not yet named a science adviser, despite having already made decisions on several scientific issues.

"All of this leads me to my conclusion," Porter said. "If Congress and at times the executive branch — if government — will not come easily to science, science must come to government." He then explained the need for scientists to take a more active role in civic society, and called on "all good scientists to come to the aid of their country," he said.

Science and meaning

The keynote address was given over lunch by Harold T. Shapiro, President of Princeton University and member of PCAST from 1990-1993. Shapiro explained that often the basic human need for myths and stories is overlooked. When science disrupts those myths, which for

many help make the world understandable and give their life and work meaning, those people feel cut off from human memory.

To that end, Shapiro believes there must be "serious conversations between people who understand science, and people who are anxious." When he says "serious," Shapiro said he means that both sides go in open to changing their mind.

Future perfect

Rita Colwell, director of NSF, opened the afternoon program by addressing the failure of the U.S.

"If government will not come easily to science, science must come to government."
— Former Congressman John Porter

education system to encourage students to go into science and engineering. She mentioned one program, Graduate Teaching Fellows in K-12 Education, where graduate students can receive substantial continuing grants to work with K-12 math and science teachers and serve as a role model for the students.

William Wulf, president of the National Academy of Engineering, spoke of need for a new engineering ethics. While at the micro level

engineering ethics are similar to that of doctors (cause no harm), no such guidelines exist at the macro level (how to distribute limited resources like organs, medicine, and time). Wulf believes such guidelines will be increasingly necessary as more systems become complex beyond predictable behavior.

Calling for a revolution in academia, Daniel Hastings, Professor of Aeronautics and Astronautics and director of the Technology and Policy Program, gave his vision for training interdisciplinary engineers to cover the technology/policy interface.

MIT Biology Professor Phillip A. Sharp expressed concern that federal research money for the life sciences had doubled in recent years, while money for other basic research had remained stagnant. While this was noted by several others throughout the day, Sharp noted the close connection between science research and technological advances, and how the latter can end up a bottleneck for the former.

David Clark, one of the chief architects of the Internet at the Laboratory for Computer Science, explained how the 1970s were spent getting the structure of the Internet right, the 1980s were spent making it

big, the 1990s were spent commercializing it, and that the 2000s will concern making sure the Web operates in the public interest. Clark said he was unsure why many of his colleagues believe that a hard technical problem that deals with a social issue isn't as "good" to work on.

Vest in hot seat

Finally, Ronald Prinn, head of the Department of Earth, Atmospheric, and Planetary Sciences at MIT, made the last and possibly the most dramatic presentation of the day. Predicting global climate change, he said, requires "intelligence, computation, and arrogance," all of which MIT has in abundance.

Prinn showed two "probability distribution functions" of possible temperature increases due to global warming — one based on "no policy," and one based on changes "beyond Kyoto," the 1997 climate change agreement not currently being considered by the United States. The latter chart showed the range of probable temperature compressed by about half.

President Charles M. Vest was then invited up to spin "The Greenhouse Gamble," a wheel of fortune based on the "no policy" distribution. Prinn reminded the audience, "The world has one spin." Vest spun an increase of 2-3 degrees Fahrenheit, and the crowd cheered.

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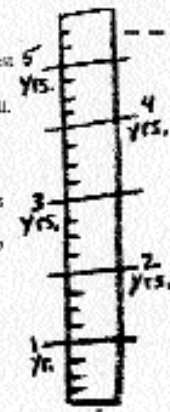
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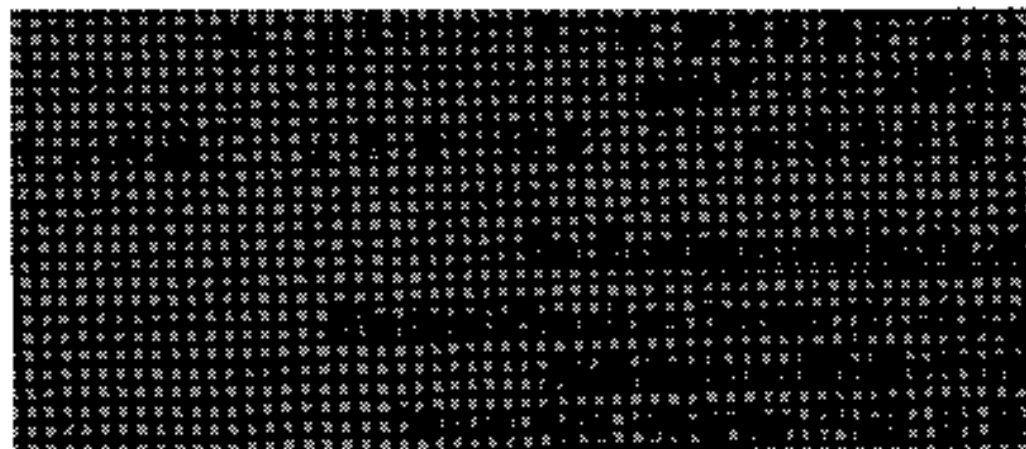
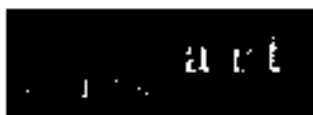
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MIT

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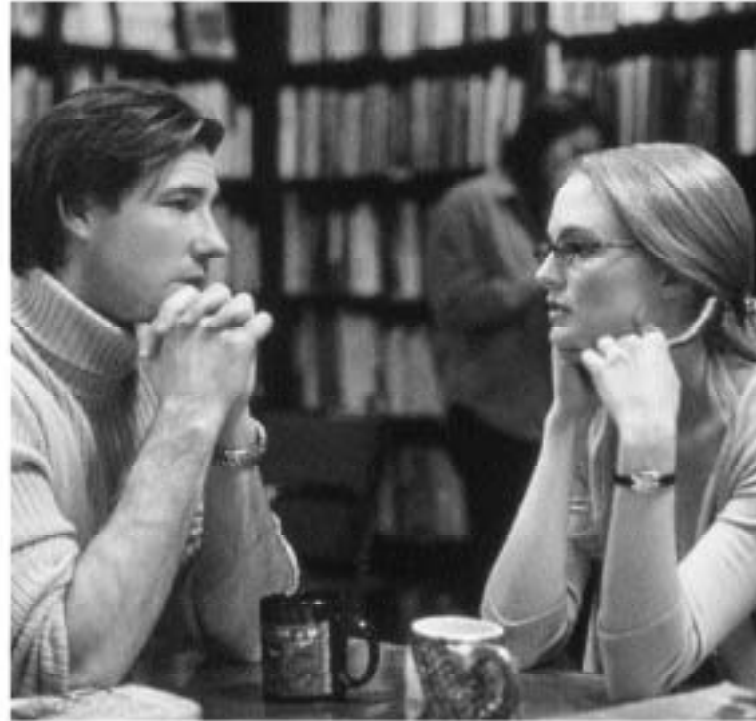
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Crossword Solution

from page 13

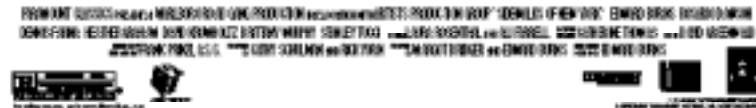


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SPORTS

MIT Ballroom Dancers Excel At Fifth Annual Tournament

By Boris Berdnikov

TEAM MEMBER

The MIT Ballroom Dancing Team held its fifth annual dance competition at Du Pont gymnasium last weekend.

The competition, with almost 400 participants, is one of the largest collegiate ballroom competitions in the country.

The MIT competition spans every experience level, from New-

comer (those with ballroom experience limited to four months) to the Open (the highest category in which the choreography is often breathtaking and the skill of the dancers are astounding).

In each level, dancers competed in any of the four styles: International Standard, (Waltz, Foxtrot, and Tango); American Smooth (same music as International Standard, but less rigorous and more

theatrical, à la Fred Astaire and Ginger Rogers); International Latin (Rumba, Samba, or Paso obble); and American Rhythm (Swing and Mambo).

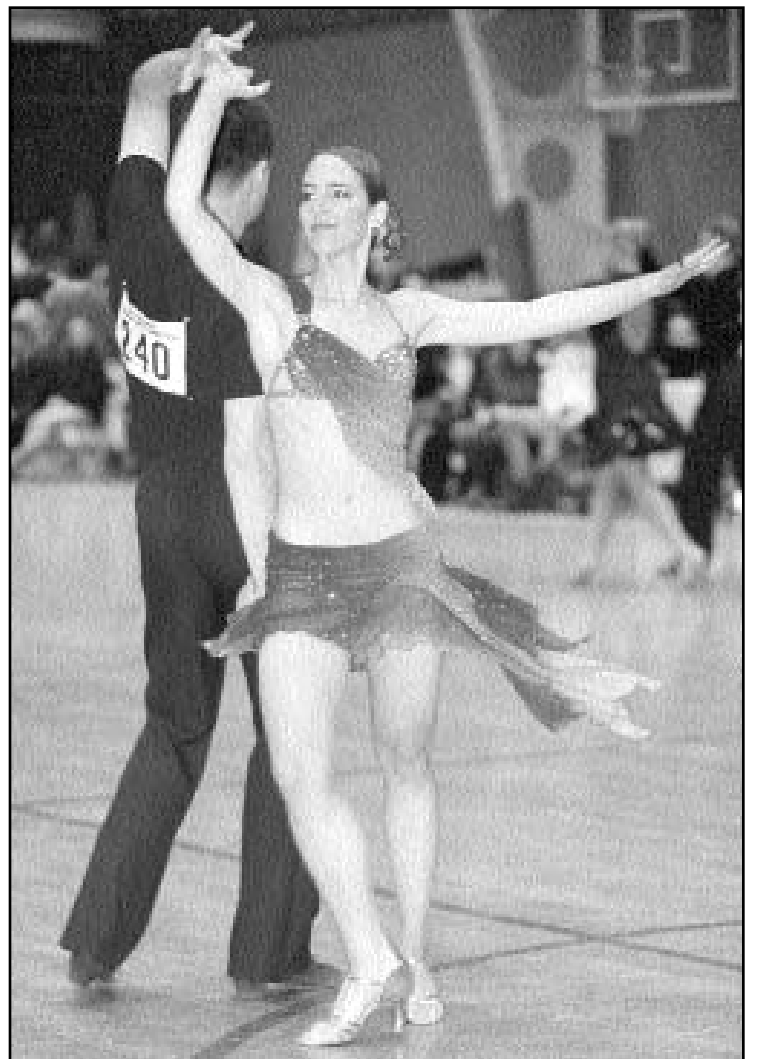
Continuing its recent winning streak, the MIT team performed extremely well. Mark Sheldon '90 and Didi von Deck, a couple ranked third nationally who have represented the United States in world championships several times, claimed a clear victory in the Open level of the International Standard.

In the same event, Igor V. Pavlovsky G and Yanfeng Lin G, one of MIT's rising couples, placed third.

In International Latin, the MIT team also dominated the field. Iakov Y. Bart G and Stephanie L. Shaw G won the Open level while Pavlovsky and Alexandra Frangi G placed second in Cha-Cha, Rumba, and Samba, and first in Jive.

In both American-style Open events, Michael Posner and Reena Freedman represented MIT to grab first place.

In a separate team-match event, MIT fielded two teams of four couples each. These teams captured first and second place out of 14 teams from other colleges. The first MIT team earned a perfect score, winning all four dances.



Michelle Goldhaber and Bill Liteplo '00 perform the Cha Cha during the MIT Ballroom Competition, held last weekend in the Du Pont Gymnasium.

Men's Tennis, Track Take NEWMAC Titles

Several Athletes Are All-Conference Picks

By Roger F. Crosley

DIRECTOR OF SPORTS INFORMATION

Two MIT teams returned from their respective New England Women's and Men's Athletic Conference Championships this past weekend with first place hardware. For the third consecutive year, the men's tennis team won the both the regular season and tournament championship. MIT swept to the title with 4-0 wins over the U.S. Coast Guard Academy and Babson College. The Engineers did not drop a set in the Championship, and in three years have surrendered only one set to any NEWMAC foe in either the regular season or championship tournament. Coach Jeff Hamilton was named the Coach of the Year for the third consecutive year.

In All-Conference balloting, MIT continued to shine. The Engineers took five of the six singles positions led by number one player Jeffrey P. Augustyn '03. Augustyn was named the NEWMAC Player of the Week for his three straight set wins during the week ending April 29.

MIT's number two player, Andrew V. Kolesnikov '03, was also a NEWMAC player of the Week during the season and occupies the number two spot on the All-Conference team. Rounding out the team are Luke D. Tomycz '02 at number four, Michael H. Ogrzydziak '04 in the fifth singles, and number six singles player Anish S. Parikh '01.

Men's track upsets Springfield

The men's track and field team outdistanced defending NEWMAC Champion Springfield College by 56 1/2 points to take the championship. Five Engineers took individual titles in the meet to and were named All-Conference.

In the running events, the Engineers' Sean Nolan '03 won the 5000 meters in a meet record 15:15.39. Sean J. Montgomery '04 took the title in the 1500 meters with a time of 3:57.37, while Richard F. Rajter '03 was the NEWMAC winner in

the 110 high hurdles covering the distance in 15:18.

In the field events, Craig D. Mielcarz '03 high jumped 6'7" for the victory, while Christopher J. Khan '01 threw the discus 141'11" to earn his NEWMAC championship.

Women's track takes second

The MIT women placed second in the meet. Princess Imoukhuede '02 led MIT with two first place finishes. Imoukhuede won the discus throw with a heave of 111'3", and took the hammer championship with a throw of 141'2". Martha W. Buckley '04 was the only other MIT woman to earn All-conference honors with a victory in the 3000 meters. Buckley covered the distance in 10:47.57.

Both of MIT's head track and field coaches were named NEWMAC Coach of the year. Men's coach Halston W. Taylor won the honor for the second time in three years, and Paul Slovenski of the women's team won his first NEWMAC honor.

Cheng takes All-Conference

In women's lacrosse, Debbie Cheng '04 was named to the NEWMAC All-Conference team. Cheng led MIT in scoring with 50 goals and five assists.

Loreto is an All-Conference pick

Baseball outfielder Alvan Eric P. Loreto '01 was selected as a NEWMAC All-Conference pick by the conference baseball coaches. Loreto led the Engineers in hitting with a .405 average, 34 hits, a slugging percentage of .571, and two triples. Loreto also tied for the team lead in RBI (15) and doubles (7). He is currently ranked 16th in the NCAA with .75 steals per game.

Lindholm takes Coach of the Year

MIT women's crew coach Sue Lindholm was named the NEWMAC Coach of the Year after leading her team to both the Varsity 8 title and the Smith Cup trophy for having the best overall showing at the NEWMAC Championship Regatta.

Men's Ultimate Team Finishes Third, Will Head to Regionals at Dartmouth



Hunter B. Fraser '01 skies a Northeastern opponent during the Metro Boston sectionals tournament this weekend. MIT won the game 13-6.

By Dean Bolton

TEAM MEMBER

This past weekend, the MIT men's ultimate frisbee teams played in their sectional tournament at Tufts University. Both the A team and the B team competed against schools from around Boston, with the top five teams advancing to the regional tournament next weekend at Dartmouth. The A team ended the tournament with a 3rd place finish and will advance to regional competition.

The A team fared well on Saturday, going 2-2 in pool play. The day started with an easy game against Harvard's B team. MIT made quick work of Harvard and took the match 15-7. The Engineers were led by great play from Henry Y. Wong G and Andrew Y. Wong '01.

The next challenge was top-ranked Tufts. Despite great individual effort by Won S. Chun G, Edmund M. Chou '02, and Benjie Chen G, the team could not get the job done and fell to Tufts 13-3.

After an easy victory over Northeastern by the count of 13-6, the team had to go up against the tough Brandeis team. Hunter B. Fraser '01 came out strong by scoring two quick goals and throwing for a few more. The team was able to continue trading points up until a

12-11 lead. With a chance for MIT to win the game, a lucky Brandeis player got a block, and the two Brandeis superstars were able to steal the game 14-12. The loss setup a game to go for MIT with the much-hated BC team early Sunday morning.

On Sunday, the team came out strong. Elisha W. Hopson G was a menace on the field, playing amazing defense and throwing for a few scores. The turning point in the game was a sweet layout D by Win Chevapravatumrong G on one of the BC handlers. MIT got pumped up and rolled to a 13-6 victory.

The win over BC setup a rematch against the Tufts team. MIT came out strong with hot grabs by Krzysztof J. Fidkowski '03 and Aaron Moronez, but the Tufts team came back strong and won 13-6.

After the disappointing loss, MIT had a rematch with Brandeis for third place. Not content to let them steal another win, Jay F. Bacow '02 and Matthew B. Greytak '04 anchored the team and shut down their offense. Daniel P. Parker G was unstoppable on offense and defense, and the MIT team won easily 13-6 to take 3rd overall.

B team ends tournament in third

The B team went 0-4 on Satur-

day, playing with only two subs and in heavy, changing winds. After coming out flat against a tough Boston College team and losing 13-1, the B team played tough against Boston University. With hot defense by Jacob W. Faber '04 and Daniel B. Turek '03, the team stayed close throughout the game. However, BU pulled head and put down the Engineers 13-6.

MIT's B team went on to play Harvard's A team. Despite great play by Ronald C. Li '03, Chwanhai H. Hsiung '04, Colin A. Cross '03, and Roshan B. Baliga '03, Harvard quickly defeated MIT, 13-1.

For the final Saturday match, MIT's B team took on Tufts' B team. Because of mental mistakes MIT dropped the first half 7-1. The Engineers rallied during the second half behind the strong arm of Samuel A. Schweighart G and only lost 13-5.

With two more people and a whole lot more determination on Sunday, the B team came out hungry for a win. The Engineers started late against an undermanned Harvard B team and defeated Harvard 10-9. The Engineers were led by great defensive play from Gary C. Lee '02 and Andrew M. Goldsweig '02.

The next game was against Northeastern for eighth place. With strong winds facing the Engineers, solid defense from MIT and great grabs from Michael T. Bolin '03 led MIT to score the only upwind goal of the first half and to finish the half 7-4. The Engineers came out hard in the second half, and refused to let Northeastern back in the game. MIT's determination led them to take the three upwind points. MIT won the match over Northeastern by a big score of 13-4 and took 8th place in the tournament.

Next weekend, the MIT A team travels to Dartmouth for Regionals. After their play at sectionals, they earned the 10th seed out of the 16 teams, and a national ranking of 66. If they can defeat Middlebury, Harvard, and Brown, the defending national champions, they will earn a spot at Nationals. Nationals will be held from May 25-27 at Fort Devens, Mass.

UPCOMING HOME EVENTS

Saturday, May 5

Heavyweight Crew, Cochrane Cup
Women's Crew vs. BU and Radcliffe
Men's Tennis vs. Williams College, 1:00 p.m.



Write sports for The Tech!
<sports@the-tech.mit.edu>