

MIT, Justice Dept. Settle Overlap Case

By Eric Richard
CONTRIBUTING EDITOR

After nearly three years of litigation, the Justice Department and MIT agreed to a settlement in the antitrust investigation of the financial aid practices of top colleges and universities.

At a Dec. 22 news conference President Charles M. Vest announced that the Justice Department had agreed to drop charges against MIT and allow financial aid officers to share information about prospective students under certain conditions.

The Justice Department had charged MIT and 22 other schools, including Ivy League colleges, with

violating the Sherman Antitrust Act by discussing and agreeing upon the financial aid packages of individual students who had been offered admission to more than one of the schools.

Both sides claim victory with the December settlement.

"Throughout this entire case, the [Justice] Department has had one goal in mind — to protect the interest of all students and their families in obtaining an affordable college education," said Robert E. Litan, deputy assistant attorney general for the Antitrust Division. "This settlement reaches that goal."

The Justice Department continues to believe that the Overlap

process violated antitrust laws and that the agreement will prevent future violations, Litan said.

MIT also approved of the decision. "Our objective all along was to establish mechanisms by which colleges and universities could continue to pursue need-blind admissions," said Michael Gass, a lawyer representing MIT. "We are absolutely delighted with the [final] mechanism."

"The higher educational community now stands a much better chance of keeping financial aid focused on those who need it most, thereby enhancing access to our colleges and universities," Vest said.

Senator Edward M. Kennedy

(D-Mass.) said, "I commend MIT and the Justice Department for reaching a settlement that is an important step in enabling working families to afford a college education."

"The Bush Administration should never have brought this antitrust case in the first place and I commend MIT for seeing this case through to a successful conclusion," Kennedy continued.

Modern system created

"The settlement that has resulted from these discussions [with the Justice Department] creates principles and procedures that permit future agreements and interactions

among universities to implement workable systems of need-based financial aid," Vest said. "In short, this establishes a more modern system to replace the overlap process."

Gass said the case was important because MIT took a stand against government intrusion by saying that "the federal government should not be in the position of dictating educational policy."

Under the guidelines agreed to in the settlement, non-profit schools can participate in cooperative financial aid arrangements only if they agree to practice need-blind admissions and provide full financial aid

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Students Robbed Near Huntington

By Eva Moy
NEWS EDITOR

Two MIT students were robbed at knife point as they walked toward Huntington Hall from the Longwood Metropolitan Boston Transit Authority stop on Dec. 10.

The suspect went to trial Monday for a similar crime committed at the T station, according to a Massachusetts College of Art campus police officer. The suspect was found guilty, but released on probation for two-and-a-half years.

The students were approached from behind. The suspect grabbed one student, held a knife to the student's throat, and demanded the student's wallet.

He also ordered the other student not to look at him.

The students described the suspect as a black male, 6 feet 2 inches tall, with wide shoulders, and a large head.

The suspect stole about \$50 in cash from the student's wallet, and fled on foot toward the Mission Hill Projects, which is across the street from Huntington Hall.

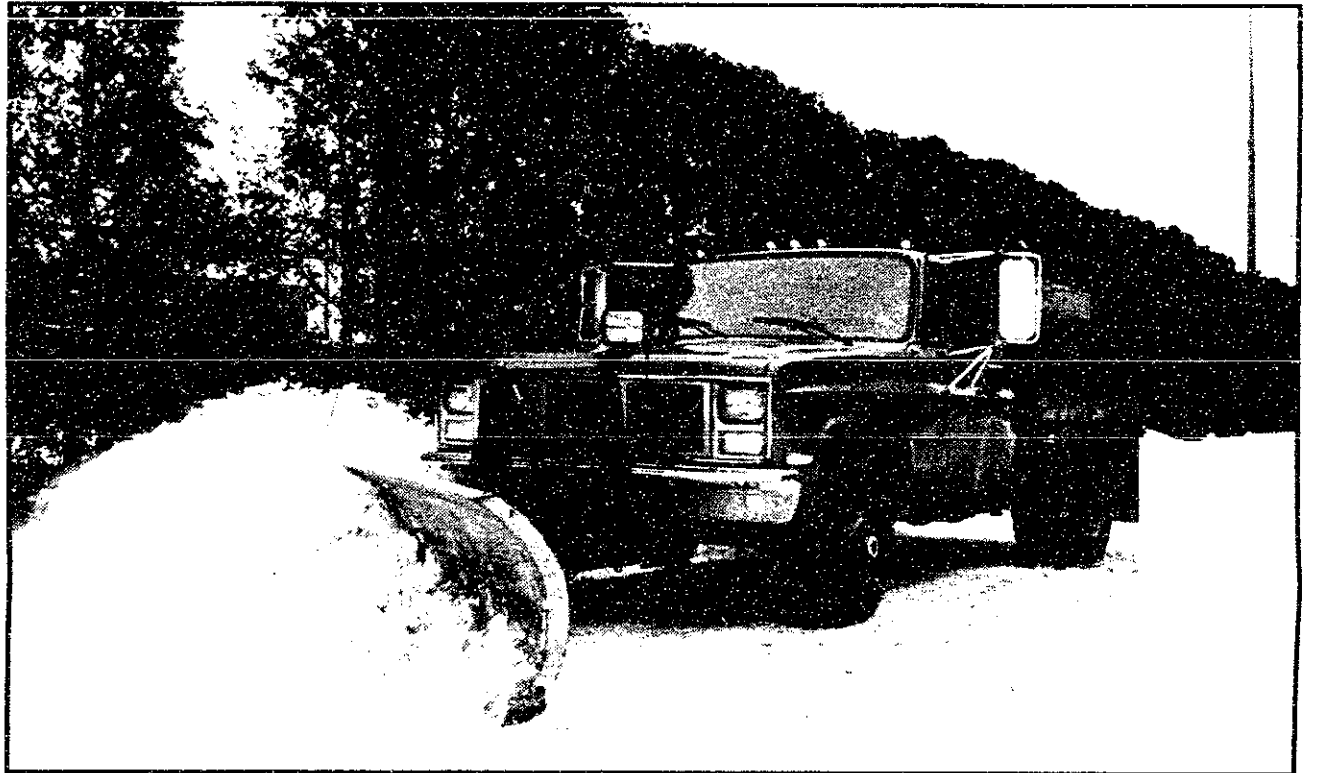
Still dormitory officials maintain that the area is not more dangerous than the rest of Boston. "Up until now there haven't been any serious problems of that happening," said Christina E. Giacobbe, a public safety officer at the Massachusetts College of Art. Giacobbe works at the security desk at Huntington Hall, which is owned by MCA, and has attended college in the area for four years.

"The area's all right except for this one person who just got out of jail," the MCA police officer said.

"Once in a while, people are going to be mugged anyway," Giacobbe said. "It can happen anywhere."

The robbery was "another reminder [that] you have to be real careful wherever you are," said Chief of Campus Police Anne P. Glavin. "It unfortunately reminds everyone of the danger of living in a densely populated area."

Huntington Hall, located in Roxbury, is MIT's short-term solution to its overcrowded housing situation. The dormitory currently houses over 60 MIT undergraduate students.



THOMAS R. KARLO—THE TECH

Physical Plant workers plow Amherst Alley yesterday during the first heavy snowfall of the year.

Students Receive 2 Fulbright, Marshall Scholarships

By Rishi Shrivastava
STAFF REPORTER

Three MIT students recently won scholarships for study in a foreign country.

Rahul T. Rao '94, an electrical engineering major, received a Marshall scholarship. The scholarship pays all expenses for study at any

British university for two years. Rao plans to pursue a second bachelor's degree in the Psychology, Philosophy, and Physiology Program at Oxford University.

The competition for the Marshall scholarship is keen; 36 scholarships were awarded out of 1,000 applicants this year, Rao said.

Universities nominate students to a national committee. Based on written applications and essays, the committee chooses 100 finalists. After a final interview, the scholars are chosen.

Both academic performance and extracurricular involvement are considered for selection, Rao said.

Rao has pursued many research activities throughout his MIT career. He is currently working at the Center for Cancer Research. He has also worked for Texas Instruments, the Injury Analysis Center at Brookhaven National Laboratory, and Lawrence Livermore National Laboratory with the human genome project.

Rao worked as a volunteer in developing an electronic system to help autistic children learn more effectively, and he participated in projects for Cambridge school children, he said. He is also the vice-president of the MIT chapter of Tau Beta Pi, the national engineering honor society.

In the future, Rao said he hopes to pursue an MD/PhD program and "would like to combine a career in

academic medicine and public policy."

In addition, he would like to apply his electrical engineering background to "bring new perspectives to problems in medicine." He continued, "I feel that effective health care technologies can only be delivered when the science and engineering is combined with the true needs of a patient."

Rao feels that his Oxford education will enable him to deal with issues he will confront in public policy work. "I hope to develop the social and humanistic aspects of my thinking. ... I think these aspects of an education are important in medi-

Rao, Page 11



THOMAS R. KARLO—THE TECH

Students stand in line Monday morning to register for Independent Activities Period physical education classes.

INSIDE

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■ *The Pelican Brief* succeeds on the strength of a tantalizing plot. *Page 7*

WORLD & NATION

Frustrated U.N. Commander In Bosnia Resigns

NEWSDAY

UNITED NATIONS

Frustrated by what he has called "a fantastic gap" between rhetoric and action in Bosnia, the commander of U.N. forces in the former Yugoslav republic has resigned after only six months and asked to be redeployed in his native Belgium, diplomats said Tuesday.

Following an earlier confirmation from the Belgian defense ministry, the United Nations said Tuesday that Lt. Gen. Francis Briquemont, who commands 12,000 multinational troops under the U.N. flag in ethnically splintered Bosnia, had asked to leave two weeks ago. But a spokesman for Secretary-General Boutros Boutros-Ghali said Briquemont cited only personal reasons for his decision to quit.

Diplomatic sources said Tuesday the United Nations plans to name Michael Rose, a lieutenant general in the British Army who was knighted Monday by Queen Elizabeth II, to replace Briquemont.

Briquemont's one-year tour would have ended in July. But, like French Gen. Philippe Morillon before him, he grew frustrated by an assignment that includes watching Serbs shelling Muslims, Croats destroying Muslim villages and Muslim forces mostly trying to fend off both, sometimes adopting their enemies' tactics.

Briquemont recently criticized the U.N. Security Council for passing truckloads of resolutions that it never seriously tried to enforce, the most recent significant example being the creation of safe areas in six areas of Bosnia to protect besieged Muslim refugee populations.

Trans World Airlines' CEO And Vice Chairman Resign

THE WASHINGTON POST

Two of Trans World Airlines Inc.'s top three officials quit Tuesday following an extended period of tension within the board of the financially struggling airline.

Board chairman and chief executive officer William R. Howard resigned and was replaced by Donald Craib, a board member who is the former chairman and chief executive of Allstate Insurance Co.

Howard said in a prepared statement that his primary goal was to help lead the airline out of bankruptcy "and with that task now accomplished, I have no doubt that the company will continue to grow and prosper."

TWA said its board unanimously expressed the view that Howard's leadership was in large part responsible for the renewed enthusiasm and dedication of TWA's employees.

Glenn R. Zander, a vice chairman of the board, also resigned, citing personal reasons. Zander played the key role in the complex financial negotiations that led to the removal of financier Carl Icahn from any role in the airline.

Administration May Delay Order On State Funding of Abortions

LOS ANGELES TIMES

WASHINGTON

The Clinton administration is weighing whether to delay a requirement that states help pay for abortions in cases of rape or incest, because the directive has placed some states in the untenable position of either violating their own laws or losing federal Medicaid funds, officials said Tuesday.

"They set these states up to be sued," said Ray Hanley, head of the Arkansas Medicaid program and chairman of the State Medicaid Directors Association.

The controversy arose from a debate over what Congress intended last year when it loosened the ban on federal funding for abortions in cases of rape and incest. Previously, federal Medicaid funds — which must be partially matched by states — had been provided only in cases where a woman's life was threatened.

In a directive last week, the administration said it now deems abortions in rape and incest cases as "medically necessary," meaning states must pay for them from Medicaid funds.

Medicaid, a program providing medical services for the poor, receives half of its funds from the federal government, but is administered by the states.

However, for some states, changing their laws in time could be impossible. Louisiana's legislature, for instance, does not go into session until April, and even then, is required by a recently adopted constitutional amendment to consider only fiscal matters.

WEATHER

Snow Passes

NATIONAL WEATHER SERVICE

The storm system that brought snow to MIT Monday and yesterday has moved rapidly northeast into the Gulf of Maine, and will continue on to Labrador. Snow and ice still abound, so take extra precautions when traveling, and watch out for untreated surfaces.

Today: Partly cloudy with a chance of a flurry. High around 25°F (-4°C). West wind 10-20 mph (15-30 kph).

Tonight: Clear, increasing clouds after midnight. Low around 15°F (-9°C).

Thursday: Mostly cloudy with a 30 percent chance of snow in the afternoon. High around 25°F (-4°C).

Friday: Chance of rain or snow early, then clearing. Lows around 20°F (-7°C).

Saturday: Chance of snow. Lows around 15°F (-9°C), highs around 30°F (-1°C).

Sunday: Partly cloudy. Lows around 15°F (-9°C), highs around 20°F (-7°C).

Feds Promote Abstinence, Condoms to Combat AIDS

By John Schwartz

THE WASHINGTON POST

WASHINGTON

The federal government Tuesday announced an aggressive public-awareness campaign to promote the use of condoms and urge sexual abstinence in the face of the AIDS crisis.

"Every new HIV infection is a needless infection," said Donna E. Shalala, Secretary of the Department of Health and Human Services at a news conference called to unveil 13 new federally funded public-service ads for radio and television.

"We have the knowledge and the technology to prevent the sexual spread of HIV" and other sexually transmitted diseases, Shalala said. "What we have lacked until now is the political will, because we have been too timid to talk openly about the prevention tools at our disposal."

The new ads, commissioned by the federal Centers for Disease Control and Prevention and designed to appeal to a young audience, employ a variety of approaches.

Two of the most straightforward TV ads feature Denise Stokes, a 24-year-old Atlanta AIDS education counselor who is HIV-positive. Stokes looks into the screen and says "My message is simple. If you're going to have sex, a latex condom used consistently and correctly will prevent the spread of AIDS and other STDs."

Less stark is a TV spot in which a computer-animated packaged condom jumps out of a dresser drawer, to make itself available to a love-making couple (of unspecified sex) in a nearby bed. It hops across the room, tiptoes by a sleeping cat and

then slips between the covers.

The voice-over narration states: "It would be nice if latex condoms were automatic. But since they're not, using them should be."

One of the radio ads features an endorsement by Anthony Kiedis of the rock group Red Hot Chili Peppers. "I wear one whenever I have sex," he says. "Not whenever it's convenient, or whenever my partner thinks of it. Every time. Look — they're easy to open. (Sound of a package opening.) And a breeze to put on. And best of all, they stop the spread of HIV."

He closes the ad telling his audience, "Remember: you can be naked without being exposed."

Other less-explicit radio ads feature Martin Lawrence of the Fox sitcom "Martin" and Jason Alexander of NBC's "Seinfeld" show.

The ads, which cost approximately \$800,000 to produce, include the number of a toll-free hotline (1-800-342-AIDS) to call for a free brochure on correct condom use and other information about AIDS.

Federal officials said the new program is aimed at those aged 18 to 25. Recent surveys show that 72 percent of all high-school seniors have had sexual intercourse; but a study of heterosexual men with multiple sex partners found that only 17 percent used condoms all of the time. Nearly one-quarter of all young adults have been infected with at least one STD. Shalala called that "a horrible number."

Some AIDS activists applauded the initiative. Daniel T. Bross, executive director of the AIDS Action Council, said that "in the past, the CDC has told people that the way to

prevent AIDS is to 'put your socks on.' Euphemisms such as these have limited value."

But Eric Ueland, spokesman for Senate Republican Policy Committee, said "Clinton promised this during the campaign. Unfortunately, this is a campaign promise that he kept." Ueland said "there's no correlation between more and more explicit advertisements and a slowing of the AIDS rate."

In a statement earlier this year, the Food and Drug Administration said that "based on its own studies and published literature, FDA believes that latex condoms can be highly effective barriers to the transmission of HIV, and can also afford protection against many other sexually transmitted diseases."

Even though latex contains microscopic pores that in theory could allow viruses to penetrate, FDA testing showed that the possibility of such infection was vanishingly small.

Ultimately, Shalala said, brief television ads cannot win the war against AIDS. In fact, she said, they have "very little effect." The effort, she said, is part of a broader public-awareness initiative that includes encouraging community groups to sponsor local education programs.

Administration officials were careful to underscore the importance of abstinence, which Shalala called "the best way to protect yourself and others." Two of the nine television ads recommended refraining from sexual activity. In one, a young person — apparently addressing a mate — says "there's a time for us to be lovers — and we'll wait till that time comes."

Death Count Passes 100 in Southern Mexico Rebellion

By Juanita Darling

LOS ANGELES TIMES

SAN CRISTOBAL DE LAS CASAS, MEXICO

The death count exceeded 100 Monday on the third day of fighting between the army and Indian guerrillas who captured — and largely abandoned — eight towns in the southern state of Chiapas.

The guerrillas also reportedly kidnapped the former state governor and executed five members of a prominent ranching family.

The state's three Roman Catholic bishops are offering to serve as mediators between the government and the Zapatista National Liberation Army, as the guerrillas call themselves. They are demanding better living conditions and democracy for the inhabitants of the impoverished state with its largely indigenous population on the border with Guatemala.

President Carlos Salinas de Gortari called for an end to the violence and for unity among citizens to confront the nation's problems. During a ceremony at the presidential palace, he acknowledged that his economic reform program has not yet benefited all sectors of Mexican society.

"We know that needs and inequalities persist," Salinas told legislators. "We know that benefits and opportunities still are not tangible realities for many."

The economic reform program, particularly the North American Free Trade agreement, which took effect Jan. 1 — the day the crisis began — was one of the main targets of criticism by the guerrillas on Sunday in a lengthy declaration of war.

They said NAFTA, an agreement among the United States,

Mexico and Canada to eliminate trade barriers over a 15-year period, is an example of growing foreign influence in their country and an economic policy that favors the rich.

New Social Development Minister Carlos Rojas said in a news conference in Mexico City that Chiapas has received more money than any other state from the Solidarity poverty alleviation program.

He announced the creation of a committee of state and federal officials to devise projects to address the state's problems.

Overall, federal spending in Chiapas has risen more than tenfold in the past five years to \$250 million last year, Diaz said.

In a Mexico City press conference, Socorro Diaz, undersecretary of the interior, said the guerrillas are "influenced and manipulated" by similar Central American groups. The Indians have denied any foreign ties.

Diaz acknowledged that the government had received information about arms smuggling and military training camps on the Guatemalan border in the final months of last year. As recently as November, officials in her ministry were denying the existence of guerrilla groups here.

"A long-standing backwardness in the area obligated us to act with extra prudence and caution," she explained.

A military spokesman in Guatemala said that the government had not ruled out the possibility that members of the leftist Guatemalan National Revolutionary Unit were helping the Mexican guerrillas.

And one rebel leader told Mexico's official news agency Notimex

that the Zapatistas had trained in the jungle in Chiapas, which borders Guatemala.

Meanwhile, the government increased security forces in Guerrero, another southern state that was the base of operations for guerrilla groups wiped out two decades ago.

The guerrillas have withdrawn from at least three of the five towns captured New Year's Day, including this tourist center, the state's second-largest city. However, they have captured three new towns: Oxchuc, Huixtan and Guadalupe Tepeyac.

Mexican reporters who tried to enter Huixtan said they were captured by a group claiming to be part of the guerrilla movement and charged a \$230 "war tax" to be set free. One journalist, Ismael Romero of the Mexico City daily La Jornada, was shot in the shoulder at a military checkpoint.

The niece of Absalon Castellanos, governor of the state from 1982-1988, claimed that Castellanos was been kidnapped by guerrillas at his ranch 22 miles east of Comitán, another tourist attraction that the rebels have said they intend to invade. Castellanos is also the former Chiapas regional army commander.

He was reportedly put in his own truck and driven toward the Lacandon jungle, where the guerrillas are believed to have trained.

The U.S. Embassy sent five representatives to Chiapas on Monday to help Americans find safety or a way out if they chose. It was not known how many Americans were in the state, a popular tourist destination for its scenery and traditional architecture and culture.

White House Defends New European Security Blueprint

By Paul Richter
and Doyle McManus
LOS ANGELES TIMES

WASHINGTON

Four days before President Clinton leaves for his first European summit meeting, the White House scrambled Tuesday to defend its new blueprint for East-West security and to mute Eastern European criticism that threatens to mar the coming week's events before they begin.

Facing 11th-hour complaints from Polish President Lech Walesa and others, the White House mobilized Joint Chiefs of Staff Chairman John M. Shalikashvili and other senior officials to elaborate on details of the "Partnership for Peace" plan for gradually expanding NATO to accept some former antagonists.

Officials insisted the plan, which sets no timetable and few specific

conditions for membership, is the best way to integrate Warsaw Pact countries into Europe without provoking an aggressive reaction from nationalist elements in Russia.

Swifter acceptance — preferred by Hungarian, Czech and Polish officials — would redivide Europe, heighten tensions and "could become a self-fulfilling prophecy of pessimism about Russia," Anthony Lake, Clinton's national security adviser, told reporters.

The late-hour White House blitz underscored the fact that many issues remain still unresolved days before a trip that could be crucial for the president's foreign policy. With this long-delayed debut European visit, Clinton must overcome European leaders' doubts about his commitment to their continent and his vision of how to ensure its stability.

Among other unsettled issues is whether Clinton will meet with

Ukrainian President Leonid Kravchuk in Moscow and which members of the newly elected Russian Parliament he can see without straining his relationship with Russian President Boris N. Yeltsin. There were indications Tuesday that a meeting with Kravchuk may take place.

But the most urgent question remains how to avoid a lukewarm Eastern European endorsement of the NATO plan, which could begin Clinton's nine-day outing with embarrassment.

The White House marketing for the plan also includes presummit trips to Eastern Europe by Shalikashvili, U.N. Ambassador Madeleine Albright and National Security Council aide Charles Gati. The officials will meet with their counterparts in capitals of the Czech Republic, Hungary, Poland and Slovakia.

MCI Plans to Spend \$2 Billion To Reach Business Customers

By Sandra Sugawara
THE WASHINGTON POST

MCI Communications Corp., unveiling its strategy for competing with its telephone and cable rivals, said Tuesday it will go after the most profitable customers of Bell Atlantic Corp. and other regional phone companies.

MCI said it will spend \$2 billion to enable business customers in 20 of the largest markets, including Washington, to bypass the local telephone company when connecting to long-distance service networks. It also plans by the end of 1994 to equip its entire domestic network — which it is naming networkMCI — with high-speed data transmission technology, as it races other companies to build the so-called information superhighway.

Officials of Washington-based MCI also said the company would join the flurry of combinations of telephone, cable, entertainment and computer companies in recent months, noting that no company can build these futuristic networks alone. But company officials declined to provide details of its plans.

Analysts said MCI is trying to position itself for the fierce competition that is expected to unfold over the next few years as new federal policies and powerful alliances tear down decade-old barriers in the telecommunications industry.

Residential phone service is subsidized by access fees the long-distance carriers pay for connections to local systems, and Bath said the highest come from business customers, especially in metropolitan

areas. "That's why the returns are really so powerful," he said.

MCI's announcement set off a flurry of protests from Bell Atlantic and other regional phone companies, which said that if MCI enters the local market, they should be allowed immediately into the long-distance business.

MCI officials said they strongly oppose such a move until the restrictions on local competition are lifted. MCI said it is only allowed to offer a full range of local telephone services in four states — New York, Massachusetts, Illinois and Washington. Nevertheless, MCI's decision to carve out a lucrative chunk of the business of Bell Atlantic and other Bell companies is likely to bring down some business phone rates, industry officials and analysts said.

Ulster Catholic Leader Talks Of Peace to IRA

LOS ANGELES TIMES

LONDON

The senior Catholic political leader in Ulster told the Irish Republican Army on Tuesday that ending the campaign of violence for a united Ireland would be one of the century's "greatest acts of moral courage."

John Hume, leader of the Social Democratic and Labor Party, said he realized that Sinn Fein, the legal political arm of the outlawed IRA, would face an enormous challenge in accepting the terms of last month's British-Irish peace declaration. The pact offered Sinn Fein a place in peace negotiations if the IRA would lay down its arms.

Hume, the leading Catholic moderate in Northern Ireland and a member of the British House of Commons, in a statement to the IRA declared of possible peace talks: "It will require from the republican movement, given the experience that its members have been through, one of the greatest acts of moral courage of this century."

Hume said that it was time to leave the past behind so that the Ireland of the next century would not be scarred by the gun and bomb, but instead would develop as part of a new Europe.

His secret talks with Sinn Fein leader Gerry Adams laid the groundwork for the Downing Street Declaration signed in London on Dec. 15 by Prime Minister John Major and Irish Premier Albert Reynolds. The specific content of the Hume-Adams talks has not been disclosed.

Bentsen Proposes 10-Fold Hike In Gun Dealer License Fees

LOS ANGELES TIMES

WASHINGTON

Treasury Secretary Lloyd Bentsen called Tuesday for a nearly 10-fold increase in gun dealer license fees as a step toward tightening federal controls over gun purchases, but conceded the proposal deals with at most a third of the United States' weapons sales.

Bentsen, a self-described lifetime gun owner and hunter, said hiking license fees would weed out as many as 80 percent of license holders, who Clinton administration officials say acquire the permits solely to take advantage of tax breaks and manufacturers discounts, or to ship weapons across state lines.

The proliferation of such licensees has greatly hindered federal Alcohol, Tobacco and Firearms inspectors responsible for policing the industry, said Bentsen, whose department includes ATF.

Bentsen acknowledged that the higher fees would have limited effect because only one-third of the nation's guns are purchased through the 284,000 licensed dealers. He estimated that the other two-thirds come from off-the-street sales, from criminals who trade drugs for guns or steal them during burglaries, from black markets and flea markets and children who get them from their parents.

Americans own more than 200 million guns, and every 10 seconds another rolls off an assembly line and one is imported every 11 seconds, Bentsen said.

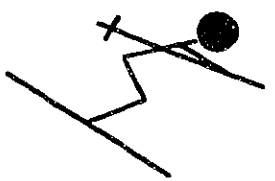
Bentsen noted that last year's Brady Bill, the first major firearms legislation enacted by Congress since 1968, raised the federal gun dealer license from \$10 a year to \$66 a year — or \$200 for a three-year permit.

Welcome Back! Hope your holidays were great!

Graduate Student Council

First GSC Full Council Meeting of the New Year this Wednesday, January 5 at 5:30 pm in the GSC lounge, 50-220. Join us as we make plans for the upcoming semester. Dinner provided.

Would you like to help with *Spring Orientation*? Contact the GSC at x3-2195 to volunteer, and come to the orientation committee meeting on Thursday, January 13 at 5:30 pm.



Ski Trip! Our first of the new year will be on Saturday, January 29. Contact Stan Reiss(x3-6165, sjreiss@athena), Roger Kermode(x3-0341, woja@media) or the GSC office (x3-2195, gscadmin@mit) for more information.

HARASSMENT TRAINING

If you would be interested in helping to develop a program to train students to deal with harassment, please contact the GSC at x3-2195.

Academic Projects & Policies Committee

Needs new members. If you think you might be interested, contact Assef Zobian, aazobian@mit, for more details.

the Coop

The GSC office has nomination forms for students interested in serving as student directors. Contact us for details.

OPINION

Hope Disappears in Sarajevo Winter

Column by Daniel C. Stevenson
ASSOCIATE NIGHT EDITOR

A week before Christmas, Kemal Kuspahic, editor in chief of the Sarajevo newspaper *Oslobodjenje*, spoke at MIT about his country's and his city's struggle against Serbian and Croatian forces. Kuspahic's paper, the name of which translates into *Liberation*, has been published continuously throughout the war, despite a destroyed office building, constant sniper attacks, and a strict embargo placed on the city.

Kuspahic did more than reiterate the numbing facts of continued violence and genocide in the former Yugoslavia; he spoke of the feeling the Bosnians have of apathetic or even antipathetic global abandonment, the anguish of empty promises, and the rising hopelessness of the citizens of Sarajevo.

Just a few days after Kuspahic's talk, a Christmas cease fire was brokered — and then broken — adding one more item to the list of failed truces and unfulfilled expectations.

And on Monday, on the eve of the first peace talks of the new year in Vienna, 15 people were killed in heavy shelling in Sarajevo, including six members of one family. Day after day for almost two years, truces are made and then violated, innocent civilians are killed, and the rest of the world feigns ignorance.

In my first column in *The Tech* last fall, I advocated strong, forceful global intervention in Bosnia-Herzegovina to prevent another 20th-century genocide. While I am far from surprised that the fighting continues, I am disturbed that virtually nothing has been done at all to resolve the conflict; fruitless negotiations continue, proposed settlements still favor

the Serbs, people are still being killed, and a second winter has passed — a season usually filled with celebrations of peace, love, and hope in most of the world, but marked by war, hate, and broken promises in Sarajevo.

Despite widespread concern about the Bosnian situation, countless appeals for intervention, and continuing death and destruction, the predicament of the Bosnians has only worsened, and the apparent triumph of brutally violent nationalism has encouraged its spread beyond the former Yugoslavia — witness the recent advances made by ultranationalist Vladimir Zhirinovskiy in Russia.

Now, more than ever before, armed intervention is necessary in Bosnia. Kuspahic's talk made the urgency of the situation abundantly clear: Sarajevans have lost their homes, their offices, their food, their friends, and their relatives. They still retain their hope, but it is slowly waning in the face of continued worldwide apathy. Appeasement and ignorance, however attractive they might be in the short term, have horrific long term consequences. We must act now, swiftly and strongly, if not to save the Bosnians, then to save those who will fall victim to ultranationalist genocide in the future.

The most important purpose of intervention is to send a message — that violent, genocidal aggression will no longer be tolerated by the global community. Kuspahic suggested in his talk that the message include surgical air strikes and artillery attacks; a lift of the arms embargo, at least on defensive weapons; an increase in sanctions against Serbia; and the creation of an effective war crimes tribunal. These actions have always

been well within the reach of America and European countries — faced with the greatest human rights crisis in decades, the "free world" must act now.

And armed intervention does not have to involve foreign troops — if the arms embargo is lifted and Bosnia is finally allowed to defend itself, there are plenty of Bosnians willing to fight for their homeland, according to Kuspahic.

In the earlier column, I compared the situation in Bosnia to Nazi Germany in the last 1930s and early '40s, specifically the fact that both conflicts involve the extermination of people solely on the basis of their ethnicity. Kuspahic made the same comparison with the Nazis in his talk. He lamented that "this was the century when 'Never again!' was proclaimed" — yet the same actions supposedly stopped forever are being carried out again. Fortunately for the Bosnians, the Serbs are not as organized or thorough as the Nazis, and the news media has at least been sporadically bringing to light the atrocities of this rather one-sided "war."

A chilling conclusion to Kuspahic's talk was the assertion by one audience member that the Sarajevans were "doomed to die" and efforts should instead be focused on saving Kosovo and other parts of the former Yugoslavia endangered by quest for a Greater Serbia. Kuspahic countered that he and many others in Sarajevo did not believe their cause was lost, and hope that someday the conflict would be resolved peacefully and equitably. Amid shelling and bombing and without any intervention from other countries, this hope will not live forever.



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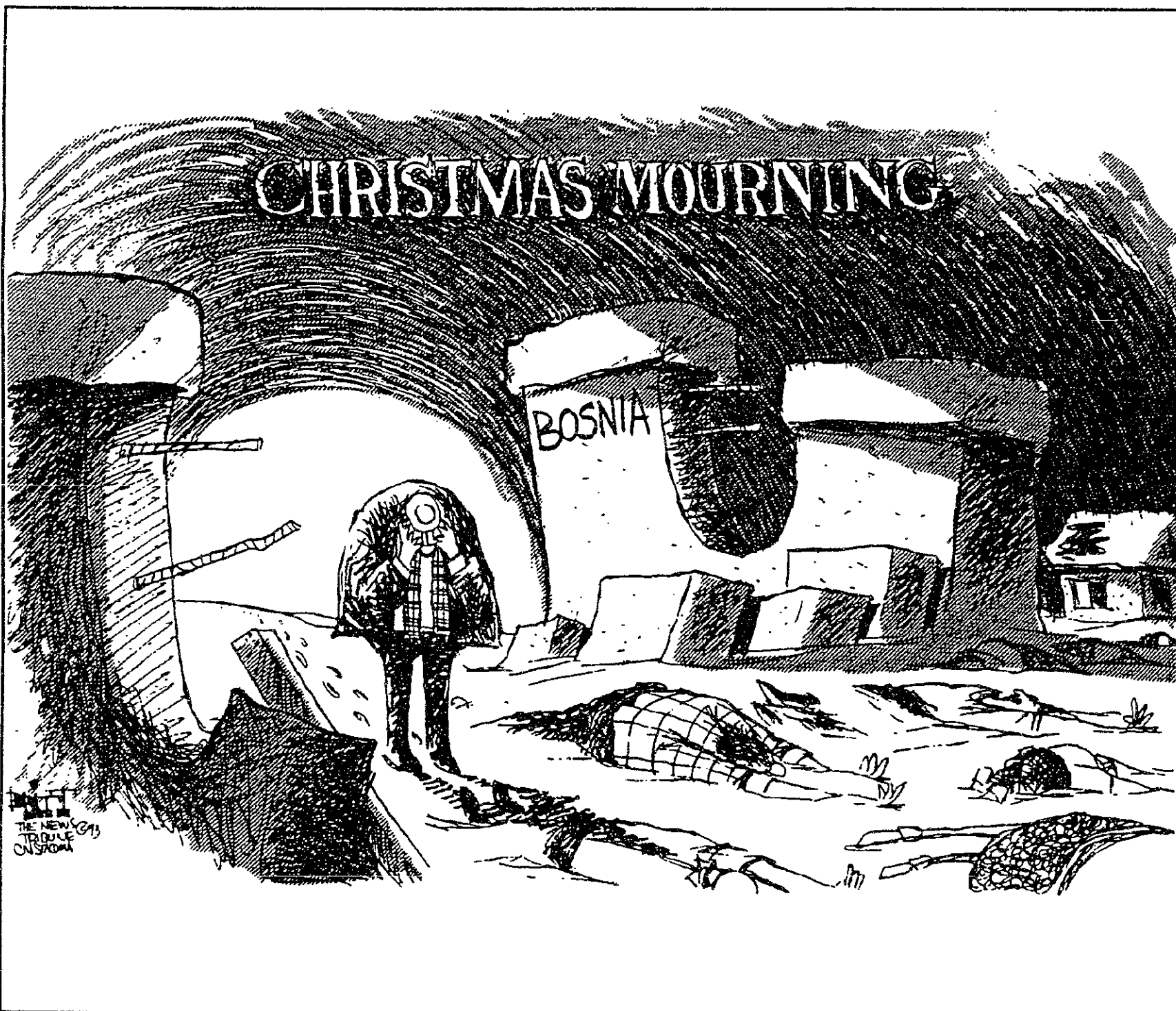
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Dissents, marked as such and printed in a distinctive format, are the opinions of the signed members of the editorial board choosing to publish their disagreement with the editorial.

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

Letters to the editor are welcome. They must be typed, double-spaced and addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or by interdepartmental mail to Room W20-483. Electronic submissions in plain text format may be mailed to letters@the-tech.mit.edu. All submissions are due by 4 p.m. two

days before the date of publication.

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

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These are three-year fellowships for citizens of the United States only. Applicants must not yet have attended graduate school in science or engineering and must have scores from the GRE General Test. **APPLICATION DEADLINE: JANUARY 19, 1994.**

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Jacqueline A. Sciacca
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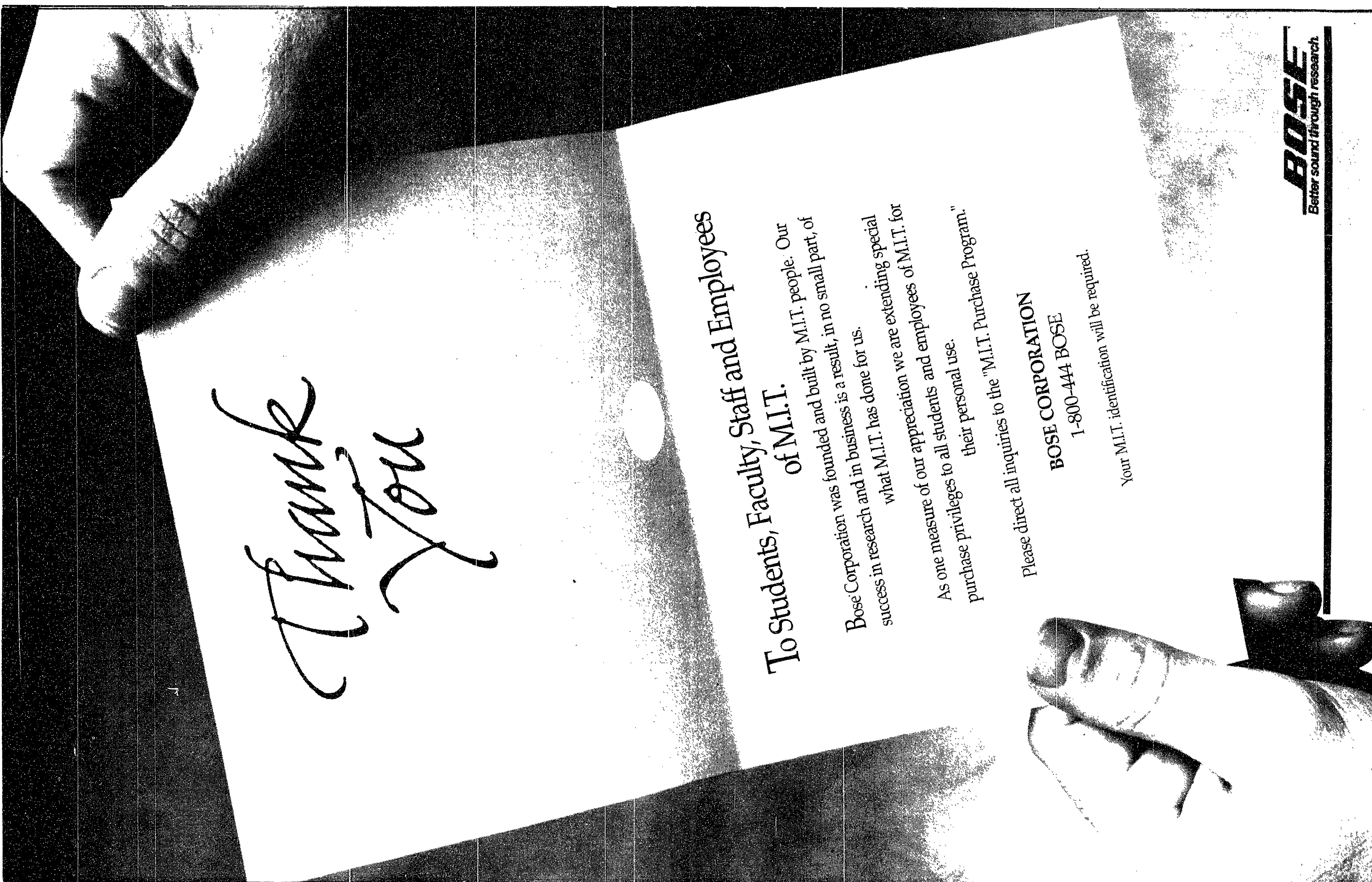
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THE ARTS

Tantalizing plot makes *The Pelican Brief* shine

THE PELICAN BRIEF

Starring Julia Roberts
and Denzel Washington.
Directed by Alan J. Pakula.
Loews Cheri.

By Patrick Mahoney

STAFF REPORTER

Julia Roberts and Denzel Washington star in *The Pelican Brief*, a Warner Brothers film based on the novel by John Grisham (*The Firm*), in which two supreme court justices have been killed, and there seem to be no clues to unmask the murderer.

Darby Shaw, a law student and an admirer of one of the murdered justices, decides to solve the case. She spends weeks doing research and comes up with a suspect and his possible motives. This brief stirs up a lot of concern in the upper echelons of the government, with waves of anxiety washing as high as the White House.

Shaw soon realizes that everyone she shows the brief to seems to end up dead. When she finds herself being followed, she panics and runs. Not knowing whom to trust she turns to Gray Grantham (Denzel Washington), a reporter for *The Washington Herald*.

The plot is well-crafted, leaving a trail of clues for the audience to follow, but withholding the juiciest details until the end. And as a surprising twist, the suspense in this movie is not tied up in the identity of Shaw's and Grantham's pursuers, but in the contents of the mysterious document known only as the Pelican Brief. The murderer is revealed early on, and it is the cleverness of motive and depth of intrigue that keeps the story exciting.

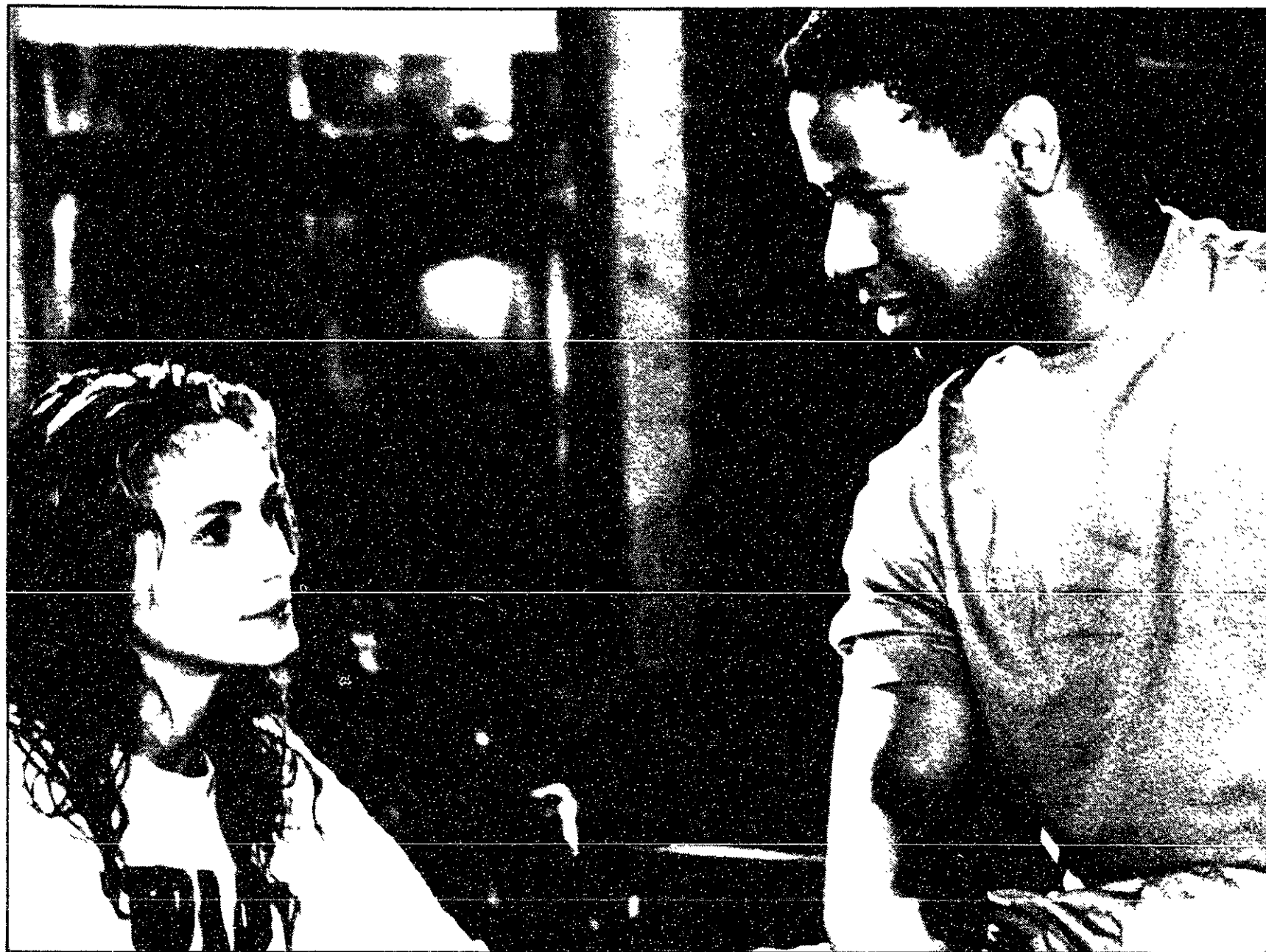
Roberts' performance is nearly perfect. She plays the paranoid student believably: She was just as nervous about meeting the good guys as she was meeting the bad guys. At no point does she have the mysterious intuition that the person she is walking off with is about to try to kill her. The audience gets the impression that she is simply a very bright student who stumbled across something she shouldn't have.

Washington also does a fine job as a reporter for *The Washington Herald*. We see from the start that he is a determined reporter, when he stakes out a phone booth to get a picture of an anonymous source. At first he treats

Shaw as just another story, and it is only after they work together that he develops any sort of relationship with her.

With a beautiful heroine, and a handsome man to save her from peril, it might seem that

this is just another film following a formula. But Grisham's genius for tantalizing plot development lifts the movie out of the mediocre muddle. *The Pelican Brief* thrills in refreshing style.



Law student Darby Shaw (Julia Roberts) tracks down investigative reporter Gray Grantham (Denzel Washington) to seek his help in unravelling a plot involving assassination and political corruption at the highest levels, in *The Pelican Brief*.

The MIT Libraries announce a change in access to

FirstSearch

Starting Monday, January 10, 1994, access to FirstSearch will be available only via Athena, using the following commands:

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add library
tfirst

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Athena accounts are available to all MIT Students, Faculty, and On-Campus Staff. Students and Faculty may register at any Athena Workstation by selecting *Register for an Account* on the login screen. Staff must first contact Athena User Accounts Office, (11-124H), x3-1325, accounts@mit.

People who will be using dialup or telnet to Athena and whose sessions will be less than 15 minutes long should use the **Dialup Express** service. Users can connect to Dialup Express by typing *express* at the CPT (pasta) prompt or by telneting to express.dialup.mit.edu.

.....

For questions about Athena accounts, contact x3-1325, accounts@mit.

For other questions about Athena, call the Athena Consultants, x3-4435, or use *olc*.

For questions about Athena documentation, contact x3-5150, sendpubs@mit.

For questions about FirstSearch, contact Mary Pensyl, x3-7754, mepensyl@mit.

Text of Letter from Higginbotham to Attorney General

The Tech received a copy of this letter written to Attorney General Janet Reno by A. Leon Higginbotham Jr., a former chief judge of the Third Circuit Court of Appeals. Higginbotham's letter was one of many written to Reno by supporters of MIT.

Dear Attorney General Reno:

I had the pleasure of arguing the above-captioned case [USA v. Brown ... MIT, et al.] *pro bono publico* before the Third Circuit on behalf of certain distinguished amici who supported the Massachusetts Institute of Technology. As you are no doubt aware, the Third Circuit has reversed the judgement of the district court and remanded it for further proceeding.

As amici, we think this case is a matter of profound public interest to all of the nation's students whose parents are not affluent, and it is of overwhelming importance to the minority community throughout the United States. Accordingly, on behalf of all the amici, I, and the co-counsel for the other amici, would like to have the opportunity to meet with you to express our hope that the Justice Department will agree to have this case, as to MIT, dismissed with prejudice. We recognize that the normal protocol would require that we submit our

request to Assistant Attorney General Anne K. Bingaman, but it is our understanding that she and some of her deputies have recused themselves.

At the time of the meeting, we would be pleased to present to you a detailed memorandum which notes our reasons for requesting dismissal. However, it seems to me that Judge Weis captured the fundamental wisdom of the policy judgement you must make when he said: "It does seem ironic, that the Sherman Act, intended to prevent plundering by the robber barons, is being used as a means of punishing, not predations, but philanthropy."

I agree with Judge Weis that this case is not fundamentally an antitrust case. I submit, respectfully, it is essentially an anti-civil rights case or, at a minimum, a lawsuit filled without any concern about its potential adverse impact on many who are needy and who would not come to MIT if the universities shifted funds to the smaller number of students who have the most spectacular records. I am convinced that one's impact on the future of this nation and world can not be based on some spacious assumption that one valedictorian is clearly more worthy than two salutatorians. Universities should not have to engage in a bidding war by pay-

ing substantially more to fewer students while other students can not enter because the financial well for scholarship assistance has become dry due to escalated bidding for a smaller number of students that provides financial aid beyond their need. While such bidding wars may make sense in the NBA, they do not aid the mass of poor talented students or the charitable mission of an institution such as MIT.

If this case is allowed to proceed in the future, many talented, but indigent students may not be able to attend MIT because it may not have sufficient resources to offer them financial assistance. MIT is proud of the fact that its enrollment of minorities has increased from three percent thirty years ago to the present record where 18 percent of the enrolled students are from African-American, Native America and Hispanic minority groups. A dismissal of this case will allow MIT to continue its mission of making college education accessible and affordable to a large pool of poor and minority students.

We recognize that the suit was not initiated with the imprimatur of your perceptive judgement as to how best to allocate either the limited financial resources of the antitrust division or the limited financial resources of MIT. There is no honorable

public value in running the risk of retrenching that community at our stellar academic institutions. This suit provides you and the Clinton administration a great opportunity to demonstrate what we know to be your commitment to civil rights and your concerns about expanding the options of the large numbers of talented persons how are poor.

At the meeting in your office, as a matter of courtesy, we would like to have counsel for MIT present so that they can be fully apprised of any positions we have taken. Although I write solely to represent the interests and concerns of the amici I represented before the Third Circuit, I must also not that several congressional and other community leaders have expressed similar concerns about what they view would be a fundamental injustice if the department were to continue to prosecute this case against MIT.

I trust that I and the other amici will have the opportunity to meet with you promptly. Please have someone on your staff advise me as to the dates that would be most convenient for you.

A. Leon Higginbotham Jr.

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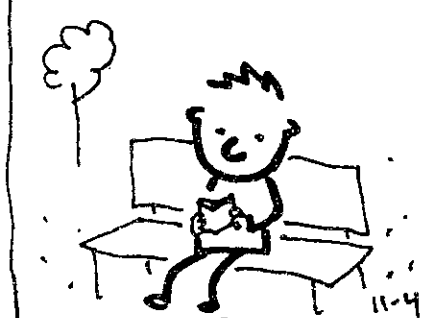
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Jim's Journal**by Jim**

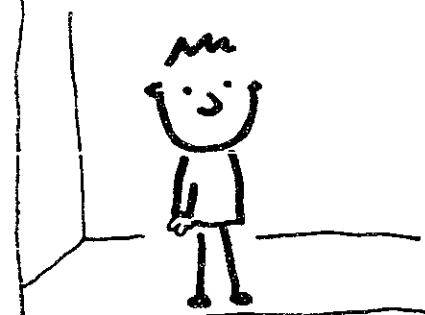
I went outside
to read my book
today.



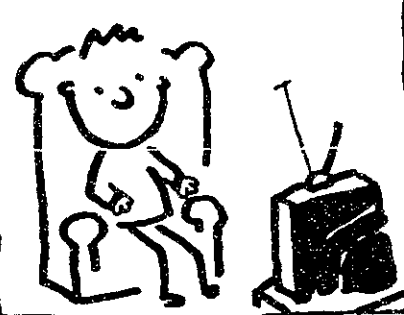
But it was too
cold to be read-
ing outside, so I
came back home.



Once I got home,
I didn't feel
like reading
anymore.



And there was
nothing on TV
either.

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McKinsey & Company, Inc.

Thursday, January 13 Room 4-270
FINANCE
Dr. Amaury Fonseca Junior, (MIT '92, Mech. E.)
J.P. Morgan & Co., Inc.

Tuesday, January 18 Room 2-105
STARTING YOUR OWN BUSINESS
Dr. William T. Townsend, (MIT '88, Mech. E.)
President, Barrett Technology Incorporated

Thursday, January 20 Room 2-105
ENVIRONMENTAL CONSULTING
Dr. David E. Burmaster, (MIT '69, Civil Engineering)
President, Alceon Corporation

Monday, January 24 Room 2-105
INTELLECTUAL PROPERTY LAW
Dr. Holliday C. Heine, (MIT '67, Biology)
Attorney at Law,
Weingarten, Schurgin, Gagnebin & Hayes

All talks at 4 p.m. in the rooms indicated

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POLICE LOG

The following incidents occurred on or near the MIT campus during the period Dec. 4 to Dec. 30:

Dec. 4: Westgate lot, portable radio stolen from a car, \$20; car stolen in Watertown recovered in 275 parking lot; Audrey Street, spare tire stolen from a jeep, \$265.

Dec. 5: Student Center, leather jackets stolen, \$200, \$125; male arrested for stealing a bicycle; West garage, '91 Honda broken into, various items stolen, \$69; McCormick Hall, annoying phone calls.

Dec. 6: Sloan lot, vandalism to '89 Honda; Bldg. E15, computer stolen, \$6,000.

Dec. 7: Bldg. WW15, tools stolen from a van, \$300; Bldg. 38, suspicious activity.

Dec. 8: Bldg. 37, computer parts stolen, \$800; Bldg. 1 bicycle rack, \$100 bicycle stolen.

Dec. 9: Bldg. 66, Powerbook, \$3,000; Eastgate, female arrested for trespassing.

Dec. 10: Ashdown House, leather jacket stolen, \$750; Baker House, wallet stolen, \$50.

Dec. 11: Westgate lot, vandalism to fence; Student Center bicycle rack, bicycle stolen, \$125.

Dec. 12: Burton House bicycle rack, bicycle stolen, \$250; Student Center bicycle rack, bicycle stolen, \$379; Westgate lot, 1) attempted larceny of a Hyundai, 2) '86 Toyota, 3) tire slashed on Volkswagen.

Dec. 14: Bldg. 5, annoying person; Bldg. 7, male arrested for trespassing; Barker Library, wallet stolen, \$20; Student Center, male arrested for breaking and entering.

Dec. 15: Eastgate, received a call for a medical emergency. Upon arrival MIT Police assisted a woman in delivering a baby boy; Hayden Library, suspicious activity.

Dec. 16: Tang Hall, bicycle stolen, \$199; Bldg. 16, vandalism to computer equipment, \$600.

Dec. 17: Bldg. E38, wallet stolen, \$11; Albany open lot, '86 Toyota stolen.

Dec. 21: New House, suspicious person.

Dec. 23: Bldg. 13, microwave oven stolen, \$150; Kresge lot, car cover stolen from a car, \$120.

Dec. 24: DKE fraternity, window broken; Bldg. 39, \$100 stolen.

Dec. 27: Bldgs. 1 and 16, suspicious activity.

Dec. 28: ATO fraternity, breaking and entering, stereo equipment stolen; Bldg. NW16, harassing phone calls.

Dec. 29: Bldg. 7, annoying phone calls; West garage, vandalism to door locks of a Toyota.

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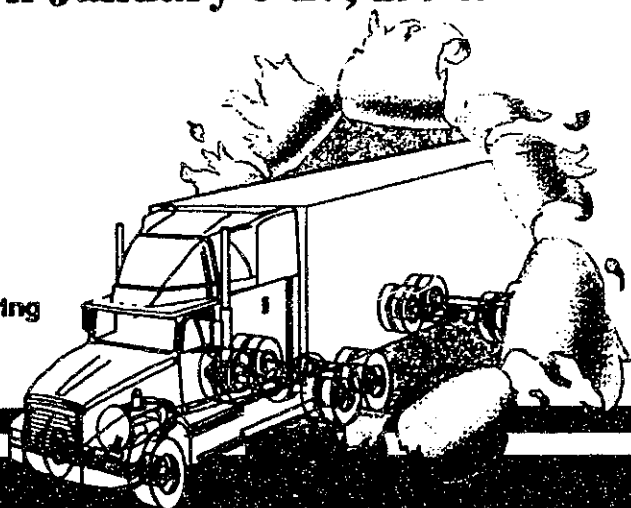
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Mechanical Engineering
Department



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Institute Applauds "Major Victory" in Overlap

Overlap, from Page 1

to meet the need of their students.

In deciding the amount and composition of financial aid awards, these schools will be permitted to exchange the financial information of overlap students via a central computer.

Schools will be able to compare the figures they received regarding family and student assets, income, allowances against assets and income, number of family members, and the number of siblings in colleges. They are explicitly prohibited from discussing the amount of family contribution or the mix of grants and self-help for individual applicants.

Schools are also prohibited from collaborating in setting tuition or

faculty salary levels.

"MIT's policies in the short run will remain the same — a commitment to need-blind admissions and need-based aid," Vest said. "In the long run, we hope that we will once again be able to work directly with other leading universities to strengthen mutual commitment to these policies."

Gass said that while it is too soon to have new discussions beginning, "over some period of time ... schools which are willing and able to will voice their interest." Gass concluded, given time "there will be a renewed form of Overlap."

"We stood to gain a future in which the access of America's brightest students to MIT and other fine universities would be based on their intellectual abilities rather than their financial capabilities. We also

stood to demonstrate that there are limits to federal intrusion in the affairs of private institutions," Vest said.

According to both Vest and Gass, reaction to the settlement has been overwhelmingly supportive.

"In general, there is real support and real happiness with the result," Gass said. "Everybody views it as a major victory."

"Everywhere I go, I am stopped by people supporting and congratulating us," Vest said.

"I am very proud to be a member of this university," Vest said. "We stood up for the principles we believe in. ... We are also extremely grateful for the support we have received from those who have no MIT connection but who have shared out strong belief in the principles of need-based financial aid."

Negotiators Avoid Second Trial

By Jeremy Hylton
EDITOR IN CHIEF

The settlement reached in the Overlap antitrust lawsuit last December came after months of negotiating aimed at avoiding a trial scheduled to begin in March.

The Justice Department challenged the Institute's practice of sharing financial aid information about prospective students with other universities that offered admission to those students.

The trial scheduled for March would have been MIT's second appearance before the U.S. District Court in Philadelphia. In June 1992, District Judge Louis C. Bechtle ruled that the Overlap meetings violated the Sherman Antitrust Act, but in September 1993 an appeals court ordered a new trial.

In a 2-1 ruling, the 3rd U.S. Circuit Court of Appeals decided that Bechtle had erred by taking only a "quick look" at the argument's offered by MIT in defense of the Overlap arrangement.

The appeals court found that the district court was obliged to more fully investigate the procompetitive and noneconomic justifications proffered by MIT.

"It really put [the Justice Department] into a tailspin when the 3rd Circuit Appeals Court took their arguments out from under them. ... It provided significant impetus to settle the case," said Michael Gass, a lawyer representing MIT.

The Justice Department, then headed by Richard P. Thornburgh, began its investigation of the financial aid practices of 57 colleges and universities in 1989. Eventually it focused on 23 eastern schools, including MIT and the Ivy League schools, known as the Overlap Group.

The Overlap Group, formed in 1958, met each spring to negotiate financial aid packages for students accepted at more than one of the Overlap schools.

The individual financial aid packages were adjusted at the meeting to make each package similar or identical. The overall process for calculating aid was also the same at each school.

The Overlap Group stopped meeting in March 1991, and two months later the eight Ivy League members signed consent decrees stating that they "will no longer collude or conspire on financial aid."

Students Receive Scholarships

Rao, from Page 1

cine and a necessity for pursuing any work in public policy."

Rao encourages MIT students to apply for the Marshall scholarship. He feels that many people avoid applying because they think they

lack a strong humanities background. "I think there are many well-qualified people at MIT who could get this scholarship. You just need to convince [the scholarship committee] that a technical background is a great asset and be able to convincingly communicate your views."

Gregory McMahan '93, a chemical engineering major, and Gerald A. McDermott G, both won Fulbright scholarships. According to *Tech Talk*, McMahan is currently studying physical science in Osaka, Japan, while McDermott is studying political science in Prague, located in the Czech Republic.

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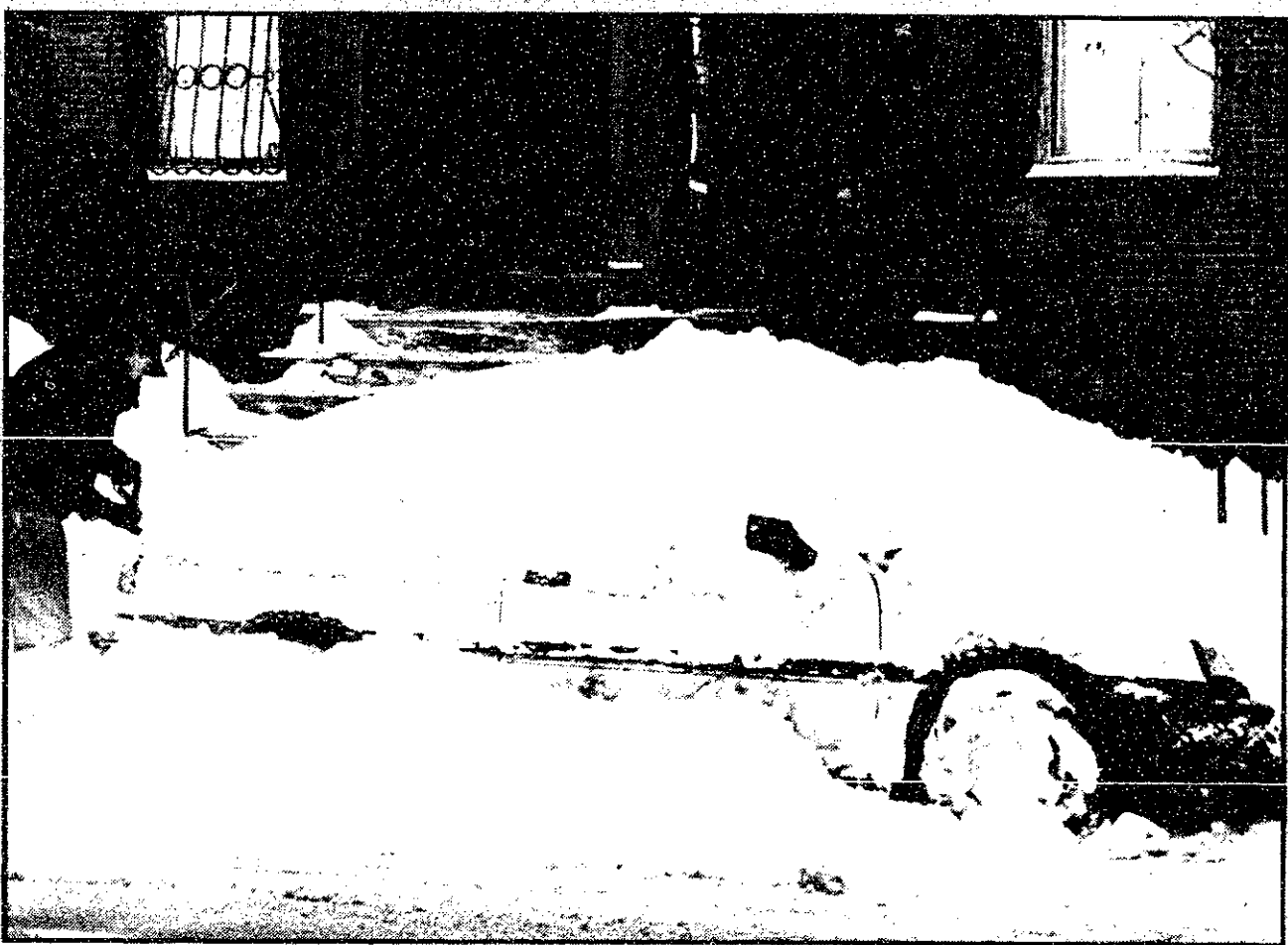
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Snow covered cars line Beacon Street in Boston.

SHERIFF IBRAHIM—THE TECH

Inventor Donates \$6.5M to Institute

By Daniel C. Stevenson
ASSOCIATE NIGHT EDITOR

On Monday, inventor Jerome H. Lemelson established the \$500,000 Lemelson-MIT Prize as part of a \$6.5 million innovation and invention program he is funding at the Institute. Lemelson and his wife also endowed a professorship, 10 graduate research fellowships, and eight undergraduate awards.

"We've established the Lemelson-MIT prize to encourage young people in this country to seek careers in invention and innovation — to inspire their ingenuity," said Lemelson, who holds over 500 patents and is America's most prolific, living inventor.

The annual contest, which is open to American citizens, is the country's largest prize for invention and innovation and will first be given in early 1995.

The \$30,000-undergraduate

awards will be given to 10 students each year. The undergraduate awards are for "undergraduates at MIT who have exemplified innovation or invention in some way," according to Annemarie Amparo, who will be the program director of the Lemelson-MIT Prize.

The research fellowships will be given to 10 graduate students on a staggered basis — \$30,000 a year for two years. This is still not completely definite, Amparo said.

Former Dean of the Sloan School of Management Lester C. Thurow was named the first holder of the \$2 million Jerome and Dorothy Lemelson Professorship on Monday. "This chair will give MIT the opportunity to spearhead initiatives that will help to foster inventions and innovations that clearly provide real-world benefits," Presi-

Donation, Page 13

Overlap Agreement Limits Cooperation

By Eric Richard
CONTRIBUTING EDITOR

While many have praised the Institute and the Justice Department for reaching a settlement in the Overlap suit against MIT, university officials across the country are expressing concern over the limitations of the agreement.

The agreement includes a guideline requiring schools to commit to policies of need-blind admissions and full need-based aid in order to participate in cooperative financial aid arrangements. Officials fear this stipulation because many schools cannot afford to make these commitments and will be excluded from making cooperative aid arrangements.

"MIT should be applauded by all educational institutions for having pursued this case so intensively," said Neil L. Rudenstine, president of Harvard University and chairman of the Ivy League.

"At the same time, the practical effect of today's agreement, unless followed by additional action, will be severely limited. Under the new agreement, it would be financially impossible for all but a very small

handful of the nation's colleges and universities to participate in the kind of cooperative arrangements that the settlement defines as acceptable," Rudenstine continued.

In 1991 The Justice Department charged MIT and 22 other schools, including the Ivy Leagues, with violating the Sherman Antitrust Act by discussing and agreeing upon the financial aid packages of individual students who had been offered admission to more than one of the schools.

On Dec. 22, MIT and the Justice Department agreed to settle the case and outlined a mechanism by which non-profit colleges would be allowed to cooperate in financial aid agreements. However, the agreement stipulates that all schools engaging in such cooperation must commit to policies of need-blind admissions and full need-based aid.

The new system

The final agreement "enhances competition between colleges on the quality of education," said President Charles M. Vest. "It re-established

Overlap, Page 13

MIT Investigates Involvement In Past Radiation Experiments

By Jeremy Hylton
EDITOR IN CHIEF

A continuing investigation into human radiation experiments done by MIT and Harvard University researchers in the late 1940s and early 1950s has shown that subjects in at least two of the experiments were not exposed to dangerous levels of radiation.

Professor of Physics J. David Litster PhD '65, vice president and dean for research, studied experiments performed on as many as 125 retarded residents of the Walter E. Fernald State School in Waltham, Mass., by the late Professor of Nutrition Robert S. Harris.

"So far I think we can make the statement that no one was harmed. Whether we would do those experiments today is a different question. My guess is probably not," Litster said.

Litster is still studying the results of two other experiments. In one experiment, pregnant women were given radioactive iodine. In the other experiment, subjects were given radioactive isotopes of iodine.

The experiments, and similar ones done across the country at

about the same time, have received much public attention and criticism recently because much of the research was performed on subjects who had little understanding of the risks involved.

Subjects apparently unaware

In a statement issued last week, President Charles M. Vest said, "I was sorry to hear that at least some of the young people who participated in this research and their parents apparently were unaware that the study involved radioactive tracers."

Though Vest and Litster are concerned by the ethical implications of the research, they both emphasized that the research aided scientists' understanding of nutritional processes.

"It is important to recognize that the purpose of these studies was to improve understanding of nutritional processes in order to promote health of young people, and that the radiation exposure appears to have been well within today's limits," Vest said.

Litster has two goals for his investigation, which he hopes to

conclude within a week. First, he wants to "ascertain what risk people were exposed to, so we can determine if there was any harm done," he said.

Information from MIT's records will also be used to help identify the people used as subjects in experiments and to determine exactly what exposure to radiation they had. "If we can at least tell people, 'We don't know who you are, but clearly this is the worst that could possibly have happened to you' and it turns out not to be that bad — that will help people," Litster explained.

A Massachusetts state task force is also investigating several radiation experiments, and Senator Edward M. Kennedy (D-Mass.) will hold a hearing at the Fernald school tomorrow.

Litster is cooperating with the other investigations, but believes that most of the information that could help identify subjects will be found in Fernald school records.

Studies of calcium, iron

The two experiments conducted

Radiation, Page 10

Conference for Black Women to Be Held at MIT

By Sarah Y. Keightley
NEWS EDITOR

A national conference focusing on issues concerning black women in academia — the first of its kind — will be held at MIT this Thursday, Friday, and Saturday.

"Black Women in the Academy: Defending Our Name 1894-1994" will include keynote speakers in Kresge Auditorium and presentations around campus. Among the headline attractions is a keynote address by Lani Guinier.

"This is an extraordinary event for MIT," said Robin W. Kilson, professor of history and women's studies and one of the meeting's organizers. It will go "a long way to changing the image of MIT for minority faculty across the nation," she added.

Organizers are expecting about 2,000 people to attend, according to Kilson. "People are enormously excited," she said. She noted that it

is quite an event to get people to come to Boston in the middle of January.

People are coming from all over the country, from community colleges to Ivy League schools, Kilson said. Scholars will also be coming from South Africa and the Netherlands. Though the conference is targeted at black women faculty, organizers expect a diverse group of people to attend.

Forum for sharing experiences

The main purpose of the conference is to create a forum for black women in academia to share their experiences and their work and to network with others in similar fields.

The conference has no central focus. Instead, about 200 participants will be presenting papers on a wide variety of topics, Kilson said. Presentations will concern topics such as "career issues, getting jobs, getting through graduate school," she said. Also, some presen-

ters will discuss issues "of wider interest to black women in general." This includes politics, the fates of Anita Hill and Lani Guinier, reproductive policy, and welfare policy, she said.

Kilson said she does not anticipate one particular highlight for the meeting. Rather, "the whole conference is the highlight."

The conference will feature three keynote speakers: Lani Guinier from the University of Pennsylvania Law School — President Bill Clinton's candidate to head the Civil Rights Division of the Justice Department before he withdrew her nomination; Dr. Johnnetta Cole, president of Spelman College; and Professor Angela Davis of the University of California Santa Cruz.

In addition to these speeches, more than 60 panels, workshops, and round-table discussions

Women, Page 12

INSIDE

■ Dormitory network will go online in less than a week. Page 12

■ IAP seminar gives advice on how to find a UROP. Page 12

■ Calendar of this week's Campus Arts events. Page 8

■ Schindler's List is powerful look at the Holocaust. Page 6

WORLD & NATION

Israel Agrees on Functions Transfer in West Bank, Gaza Strip

LOS ANGELES TIMES

TABA, EGYPT

Israel has agreed on the transfer of most civilian government functions in the occupied West Bank and Gaza Strip to a new Palestinian self-governing authority, and negotiators made progress on some of the most difficult issues blocking an agreement on Palestinian autonomy, delegates said Tuesday.

"I hope we'll be able to really consider it a milestone that has been accomplished on the way to doing this agreement," chief Palestinian negotiator Nabil Shaath said of the agreements now covering almost every aspect of civilian administration in the occupied territories; the areas since 1967 have been in the Israelis' hands.

Meeting for the second day in this Egyptian Red Sea resort, negotiators attempted to go beyond the crucial security issues that for months have stymied agreement on Palestinian autonomy. Instead, they sped their way through other nagging issues — from economics to who controls the telephones — that have also remained in dispute.

After a long, closed meeting between Shaath and Israeli delegation chief Maj. Gen. Amnon Shahak, Palestinian negotiators said they expected to reach agreement this week on 37 of 38 areas of civil administration in Jericho and Gaza, which will pass into Palestinian hands for a five-year period of autonomy once an agreement is concluded.

Judge Finds USAir Negligent In 1992 Crash that Killed 27

NEWSDAY

A federal judge in Cleveland ordered a verdict of guilty against USAir Tuesday in a multimillion-dollar negligence suit stemming from the March 1992 crash of Flight 405 at New York's LaGuardia Airport that killed 27 people.

U.S. District Judge Thomas D. Lambros issued the directed verdict after the conclusion of testimony in a 1½-month jury trial that combined more than 30 lawsuits. Lambros did not explain his ruling, but observers said he apparently decided USAir was negligent after testimony that it had declined to give its crews the most up-to-date de-icing chemical available because of the cost.

Flight 405, its wings heavily iced, was unable to gain altitude while taking off in a snowstorm and crashed into Flushing Bay, killing 27 and injuring 24 other passengers and crew members. The National Transportation Safety Board said the crash was caused by a buildup of ice on the wings.

Pledge Signed to Combat South Africa's Escalating Violence

THE WASHINGTON POST

PRETORIA, SOUTH AFRICA

President Frederik W. de Klerk and Nelson Mandela, president of the African National Congress, issued a joint pledge Tuesday to combat South Africa's escalating political violence.

After a four-hour meeting, the two leaders struck a note of cooperation — even optimism — on an issue that has been in bitter contention between them. Both were adamant that despite the escalation of violence, they did not see a threat to the nation's ability to hold a free and fair election on April 27, when blacks for the first time will be able to vote in South Africa.

De Klerk said he had received "important inputs from the ANC's side," and Mandela said "a great deal of progress" had been made.

Although details will not be disclosed until next week, de Klerk made clear they would join in launching an initiative on "community policing" — an effort to establish some level of community control over police in black townships, where they are often viewed as perpetrators rather than protectors.

WEATHER

Relentless Winter

By Marek Zebrowski
STAFF METEOROLOGIST

A fairly swift-moving low pressure system will track just south of the Cape, bringing unsettled weather to our region for late Wednesday and early Thursday.

This system is forecast to strengthen significantly once it is over the Maritimes, allowing cold air to become reestablished over our region once again by early Friday. Another possible disturbance will most likely pass to our east by later Friday, and in its wake the coldest air of the season will rush in for a brutally frigid ending to yet another wintry week.

Today: Thickening clouds with snow arriving towards dark. Another tricky evening commute shaping up: a coating of snow will turn to slush in eastern and southern coastal sections whilst inland portions are likely to get sleet and freezing rain. Total accumulation: 2-5 inches depending on location. High of 33°F (1°C), northwesterly winds shifting to southeast, 10-15 mph (16-24 km/h).

Thursday: Precipitation ending by midday, some breaks in overcast by afternoon. High of 38°F (3°C), winds returning to northwest.

Friday: Chance of flurries or some light snow, especially near the coast and on the Cape, then clearing, becoming windy and much colder. High in mid to low 20s (-4 to -5°C) lows near 10°F (-12°C) in the city, in single digits (-14 to -16°C) north and west. Strong northerly winds will produce dangerous windchill temperatures.

Saturday: Mostly clear and bitterly cold. Highs in mid-teens (-10°C) lows near 0°F (-18°C) in town, -5 to -10°F (-20 to -23°C) outside metropolitan area. Continued windy with severe windchills.

Sunday: Continued fair and extremely cold with highs likely not to exceed single digits (-14 to -12°C) and lows near or below 0°F (-18 to -20°C).

Gore Calls for All-Inclusive Information Superhighway

By John Lippman
and Amy Harmon

LOS ANGELES TIMES

LOS ANGELES

Vice President Al Gore told a meeting of the corporate elite of Hollywood and the telecommunications industries Tuesday that the disadvantaged should not be left stranded on the shoulder of the information superhighway.

Speaking at a University of California, Los Angeles, conference, Gore said that the Clinton administration is willing to break down regulatory barriers to permit telephone and cable TV companies to compete in offering a broad array of interactive services, but only on condition that the information highway toll is not too steep.

More than 2,000 communications industry executives packed the meeting to hear Gore and powerbrokers such as cable TV's John C. Malone and Hollywood mogul Barry Diller.

While industry executives generally praised Gore's remarks, there was no broad consensus reached at the summit and some worried about too much government interference. "The devil will be in the details, but basically what we heard was right on," said Bell Atlantic chief executive Raymond Smith, one of the most aggressive proponents of the interactive future.

Although everyone agreed that the information superhighway is coming soon, there was little consensus about how it will evolve, how much it would cost, or how quickly people will be able to access

it through their computers, telephone or television sets.

Some said the venue was a good one for often adversarial government and industry leaders — FCC chairman Reed Hundt also addressed the crowd — to hash out their respective roles in building the nation's new infrastructure.

"They're attempting to demystify this so people won't be scared into creating legislation," said Michael Milken, who is involved in interactive education projects.

Yet members of the Hollywood crowd seemed unsure of their place in the sparring between phone, cable and computer executives over how digital age entertainment and information will be delivered. "I feel like an English major in an organic chemistry course," said Disney Co. Chairman Michael D. Eisner.

"This isn't about programming," whispered HBO chief Michael Fuchs to his neighbor.

Perhaps because of its locale smack in the middle of the film and TV industry, many of the participants said they expect entertainment applications to drive the building of the information superhighway.

"Entertainment is going to be the core of every one of these opportunities," said Jeffrey Katzenberg, chairman of Walt Disney Studios. The perpetual gap between Hollywood and Silicon Valley was also in evidence.

Edward McCracken, Silicon Graphics' chief executive who flew down from San Francisco to be on a panel, met with some puzzlement when he arrived unescorted at the

front door through which the common members of the audience were entering. "I don't have a bodyguard or anything," he told the guard apologetically, digging out his VIP badge.

The large turnout, however, reflected the growing importance of the superhighway debate.

Gore said the Clinton administration's regulatory packages will contain provisions that encourage private investment, foster competition, and provide open and equal access to new networks. The legislation, he added, is designed to "avoid creating a society of information haves and have-nots."

The vice president, who is spearheading the administration's telecommunications policy, urged the media leaders to wire every school, library, hospital and clinic to the information superhighway by the end of the decade.

Replied Ted Harbert, president of ABC Entertainment: "Schools can't even afford chalk, and they are talking about putting a personal computer on every desk."

Others were more receptive.

Time Warner Chairman Gerald R. Levin said Gore's call to wire all the schools, libraries and hospitals was in fact largely a reality. "We are much of the way there already," he said, noting that more than 80 percent of schools within Time Warner cable systems service area were already hooked up. "We don't want to see an information aristocracy," he said.

NATO Leaders More Willing To Act against Bosnian Serbs

By Daniel Williams
and Ann Devroy

THE WASHINGTON POST

PRAGUE, CZECH REPUBLIC

After trying to keep the issue at bay, the United States joined its allies Tuesday in sharpening a threat to use airstrikes in Bosnia, with President Clinton asserting that Western resolve to turn threats into action is stronger than before.

At the NATO summit conference in Brussels, allied leaders formally repeated a pledge made in August to bomb Bosnian Serb militias to "prevent the strangulation of Sarajevo" and other areas of Bosnia under siege. After French and British leaders pressed the issue at a dinner late Monday, a more specific call was added: for NATO's military command to "urgently" produce plans to unblock the town of Srebrenica, where Canadian peacekeepers are stranded, and to free the airport in Tuzla to receive relief supplies.

"Everybody who voted for it recognized that air power might be used," Clinton said at a news conference Tuesday. He pointedly warned that the West had to keep its pledges or look increasingly powerless. "I don't know if the threshold is lower, but there are more instances in which air power can be used," he said.

The new warning came in a communique approved by all 16 member states at the end of a two-day NATO summit conference in Brussels, before Clinton traveled to Prague for meetings with leaders of the Czech Republic, Poland, Hungary and Slovakia.

The NATO statement reflected the ability of France in particular to make the deteriorating situation in Bosnia a focal point of the summit,

overcoming U.S. efforts to play it down.

The United States supported the language, but only "if we were prepared to follow through, on the theory that we should not say things that we do not intend to do," Clinton said.

The ambiguity over airstrikes highlighted the difficulties in making decisions when political resolve for clear action is missing. NATO Secretary General Manfred Woerner directly referred to the issue in his closing statement Tuesday when, referring to designs to set up NATO for new roles, he said, "We have made NATO fit for action. The main thing still is the political will and determination of our member nations."

There appeared to be a bit of bluff in Tuesday's NATO threat. British and U.S. officials said it is unlikely bombs will fall, because they expect the Serbs to ease up on the two towns mentioned in the communique. They noted that after August, following the allied warning, the Serbs temporarily eased a siege of Sarajevo.

U.S. officials said the French and British were being hypocritical in specifying Tuzla and Srebrenica, since the two countries have long opposed NATO airstrikes for fear of endangering their own peacekeeping troops in Bosnia. Moreover, Tuzla and Srebrenica were included under the August threat of air action.

Reporters pressed Clinton and other U.S. officials on why the Serbs should take new warnings seriously when the West has failed to act before. Clinton responded by appearing to cast the United States as a detached observer of a psychological shift among the British and

French.

He acknowledged there is still disagreement on actually using force. "Some of us, I think it's clear, were stronger than others about the appropriateness of it," he said.

A senior U.S. official said the French and British want to threaten airstrikes only for missions that are limited to a specific military objective, such as opening a road. Bombing to help ease a siege in Sarajevo might bring on a major escalation in fighting — something London and Paris fear, the official added.

French Foreign Minister Alain Juppe said Secretary of State Warren Christopher lobbied him as late as Friday night to put talk of airstrikes aside. Sunday night, French, British and other diplomats assured Christopher that reference to airstrikes in the communique would be limited to a reaffirmation of the August threat.

Yet, at dinner Monday night, French President Francois Mitterrand and British Prime Minister John Major pressed for action at Tuzla and Srebrenica. After Clinton agreed, the precise wording was worked out in intense lower-level discussions early Tuesday.

In its final actions, NATO approved the Partnership for Peace to cooperate with armies from the former East Bloc in hopes of bridging longstanding divisions and eventually offering membership in the alliance to some. But they stopped short of granting membership and security guarantees to the so-called Visegrad nations — Poland, Hungary, the Czech Republic and Slovakia, all former Soviet satellites that fear Russian expansion and agreed to cooperate in their security policies.

Aides Conclude Clintons Must Disclose Whitewater Dealings

By David Lauter
and John M. Broder
LOS ANGELES TIMES

WASHINGTON

Senior White House officials have concluded that President Clinton and first lady Hillary Rodham Clinton must abandon their insistence on withholding documents related to their involvement in the Whitewater real estate project and begin disclosure promptly after the president's return from Europe, aides said Tuesday.

In a sign that Clinton may be ready to heed his aides' advice, the president noted, in a televised interview Tuesday night, that he had agreed earlier to cooperate with Justice Department investigators. But "people said that's not enough, so I think we have to evaluate that and see where we are," he said.

The aides, frustrated over the pounding the White House has taken on the issue, also said they increasingly believe Attorney General Janet Reno should appoint an independent prosecutor to look into

allegations about Whitewater and the failure of the related Madison Guaranty Savings & Loan in Arkansas. Reno has opposed such a move so far, but it has been advocated by a growing number of senior Democrats in Congress.

Mrs. Clinton and members of the senior staff have met several times to discuss the issue in recent days, according to officials who say the first lady has modified her insistence that the papers are private and should not be released.

Some White House officials continue to argue that the president should resist calls to release the papers, saying the demands are politically motivated and that yielding would weaken him and the prerogatives of the presidency. But that camp appears to have dwindled in recent days as administration officials have watched steady criticism wear away Clinton's support within the capital.

The perception that the White House is trying to hide something has driven a raft of stories about White-

water ever since the disclosure, shortly before Christmas, that a file relating to the investment had been in the office of White House lawyer Vincent Foster on the day he committed suicide and had been taken out of his office subsequently by White House counsel Bernard Nussbaum.

After some initial delay, the president agreed to turn over that file and related papers to Justice Department investigators but has refused to make them public. David Kendall, Clinton's personal lawyer, negotiated with the Justice Department to deliver the documents under a subpoena, a move aimed at preventing leaks.

Whitewater was a real estate development company in which the Clintons invested with a friend, James B. McDougal, and his wife, Susan, in 1979. McDougal owned the Madison Guaranty thrift, which was seized by federal regulators in 1989 at a cost to taxpayers of at least \$47.6 million. The real estate deal went sour as well, and the Clintons have said they lost \$68,900.

Salinas Calls for Negotiations, Truce with Southern Indians

By Tracy Wilkinson
LOS ANGELES TIMES

MEXICO CITY

President Carlos Salinas de Gortari's government, struggling to put down a deadly Indian rebellion in southern Mexico, stepped up peace efforts Tuesday with a call for a truce and an offer to listen to the guerrillas' demands.

Salinas' newly appointed peace negotiator, former Mexico City Mayor Manuel Camacho Solis, sounded a conciliatory note in his first public remarks, even suggesting the Zapatista National Liberation Army, as the guerrillas call themselves, could be recognized as a legitimate force.

"They are a reality," Camacho said in a news conference. "If we are going to reach an end to the conflict, we have to talk to them."

Recognition as a legitimate "belligerent" force is one of several demands the Zapatista rebels set forth in a five-page statement delivered late Monday to a newspaper in Chiapas, the impoverished southern state where the rebellion broke out New Year's Day.

The Zapatista rebels also said they were willing to begin talks with the government, if a cease-fire is declared and the Mexican Army stops its "indiscriminate bombings" and withdraws from Chiapas. If the conditions are not met, they said,

they would "continue their advance to the capital."

The statement was signed by the elusive Marcos, identified as the leader of the Zapatista rebels. Marcos used the statement to correct reporters, who have been referring to him as "Comandante," saying he was merely a "sub-comandante."

Camacho, who has a reputation as an able negotiator whose skills were honed in the political fights that go with running this ungovernable capital, declined to comment on the specific demands presented in the rebel statement until he could verify its authenticity. But he was careful not to rule out any condition.

Russia, Latvia Avoid Armed Crisis

LOS ANGELES TIMES

MOSCOW

It was a scenario many of Russia's neighbors dread, the kind of incident that, in the worst of imagined cases, might bring Russian troops marching in to occupy a tiny country.

According to officials on both sides, that is what nearly happened in Latvia this week when a zealous local official sent the militia to surround a Russian military compound, arrest two Russian generals and pack them off in handcuffs to be summarily deported.

Before Latvia apologized Tuesday, Russia's Defense Ministry had put an airborne division on combat alert and warned Latvian President Guntis Ulmanis that troops were ready to cross into his country in 15 minutes if the militia stood its ground.

Retreat came swiftly, nobody got hurt and the official who started it all was fired.

But the scuffle highlighted the insecurities that have prompted some newly independent nations on Russia's western flank to seek protection in NATO — an appeal that prompted the 16-nation Western alliance Monday to offer them a "Partnership for Peace" that stops short of full membership.

The strong showing of ultra-nationalist in Russia's parliamentary elections last month has especially alarmed the three Baltic states — Estonia, Latvia and Lithuania — seized by the Soviet Union in 1940.

The incident in Latvia could also lend weight to Russian President Boris N. Yeltsin's appeal that the West allow his country a special role in policing former Soviet areas.

New York Police Superintendent Likely Pick to Head DEA

LOS ANGELES TIMES

WASHINGTON

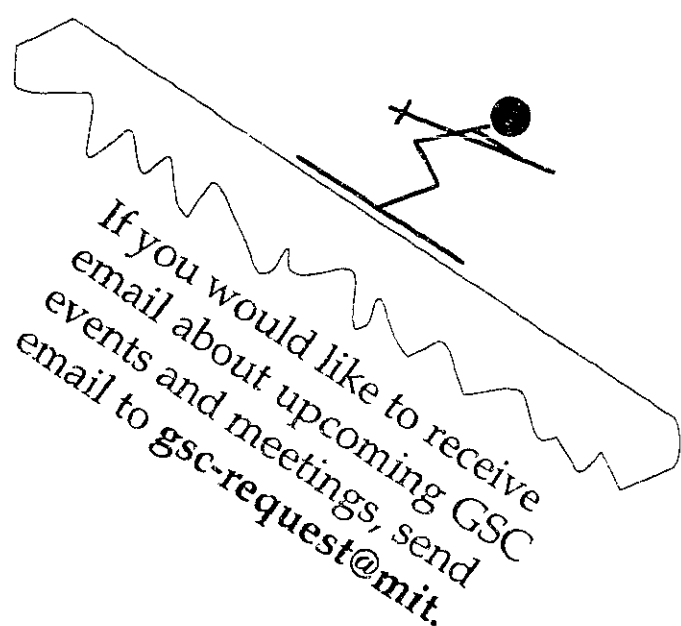
New York State Police Superintendent Thomas Constantine is expected to be tapped this week by President Clinton to head the Drug Enforcement Administration, administration sources said Tuesday.

Constantine, whose appointment requires Senate confirmation, would succeed former U.S. District Judge Robert C. Bonner, a Bush administration appointee who resigned in October to return to practicing law in Los Angeles. The DEA chief oversees a 3,500-agent organization whose mission is to enforce the nation's drug laws. The agency operates in 53 countries and all 50 states.

Assuming Constantine is confirmed for the post, he will inherit a job that will have been altered slightly as a result of Vice President Al Gore's "reinventing government" effort. Initially, Gore's task force had proposed merging the DEA into the FBI to enhance its effectiveness and efficiency. But that idea met with resistance from the organization and some law enforcement experts. Instead, Attorney General Janet Reno gave FBI Director Louis Freeh authority to ensure that the two agencies work more closely together in their drug-fighting efforts.

Constantine, who acknowledged in November that he was under consideration for the post, speculated then that the administration's interest in him stemmed from his experience with anti-drug campaigns in New York. The 54-year-old Buffalo, N.Y., native has been a member of the state police force for 31 years.

Constantine could not be reached for comment Tuesday.



Ski Trip to Waterville Valley, NH!

The first GSC ski trip this year will be on Saturday, January 29. Contact Stan Reiss(x3-6165, sjreiss@athena), Roger Kermode(x3-0341, woja@media) or the GSC office (x3-2195, gscadmin@mit) for more information.

Sign up starts Thursday, January 13 at the GSC office (50-220)

Academic Projects & Policies Committee

First meeting on January 25 at 5:30 pm in the GSC lounge (50-220). New members needed and welcome! Contact Assef Zobian, aazobian@mit, for more details.

Graduate Student Council

Orientation Committee

Meeting this Thursday, January 13, at 5:30 pm in the GSC lounge (50-220) to finalize plans for **spring orientation**. Everyone is welcome. Dinner provided.

This year I resolve to get more involved with the GSC.

There is a **new support group** for MIT women post-docs and graduate students forming this spring term. If interested, contact **Holly Sweet** (491-5733 or x3-7786) by February 1st for more information.

Good thing I'm a grad student, otherwise I might have to leave my lab and freeze in this lovely Boston weather!

OPINION

Letters To The Editor



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Fight AIDS with Awareness, not Morals

World AIDS Day is not a commemoration of HIV "victims" as A. Arif Husain put it in his column ["Other Diseases Overshadowed by AIDS", Dec. 7]. World AIDS Day is a unified worldwide effort to support people living with AIDS, including friends and family of those infected with HIV. It is meant to educate the public on prevention and urge people to take action against the spread of this disease.

Despite all efforts, there are those who will treat this disease as a moral issue instead of the public health matter it has been all along.

We are making a big deal out of AIDS, but that is because it is a big deal. AIDS is now the leading cause of death among men between the ages 25 and 44 in the United States, and the fourth leading cause among American women in the same age group, according to the Center for Disease Control's *Morbidity and Mortality Weekly Report*.

Husain says that cancer and heart disease take more lives across the globe, but fails to realize that the target age group that AIDS debilitates does indeed make it the world's greatest killer. Because of its devastating effects on the 25-44 year old age group, it is destroying a large portion of the world's most economically, intellectually, and artistically productive people.

Although many MIT students may not yet belong to this age group, this statistic reflects the number of people with AIDS, and not nec-

essarily all those infected with HIV. We need to act responsibly now to prevent ourselves from becoming another statistic in a few years.

AIDS is also taking a huge toll on the health care system and has the potential to wreak political havoc in many developing countries. We need to make it our job to bring attention to AIDS.

The good news is that we are not "stuck" as Husain said, when it comes to HIV infection. The majority of cases are preventable. However, if Husain claims that AIDS awareness and education programs are "worthless propaganda" and that money for research "compromise(s) the lives of millions by diverting scarce resources," how else are we to prevent the spread of HIV infection?

From my experience as a Medlink here at MIT, many people still do not know exactly what constitutes risky behavior. Even for those who do know, there is evidence that they have yet to reconcile their own behavior with their knowledge and reality. In a survey of Boston University students, 80 percent said that they knew that condoms help prevent HIV infection. But 72 percent of Boston University students admitted that they do not always use condoms ["Time to Act," *World AIDS Day Newsletter*, Dec. 1]. This is evidence that awareness and education are still direly needed if we are to prevent the spread of this disease.

We must resist the inclination to regard AIDS as a moral issue. Are sick people any less deserving of assistance and support just because someone has chosen to pass a moral

judgment on them? HIV is a virus. It does not discriminate, so why should we be selective about giving assistance?

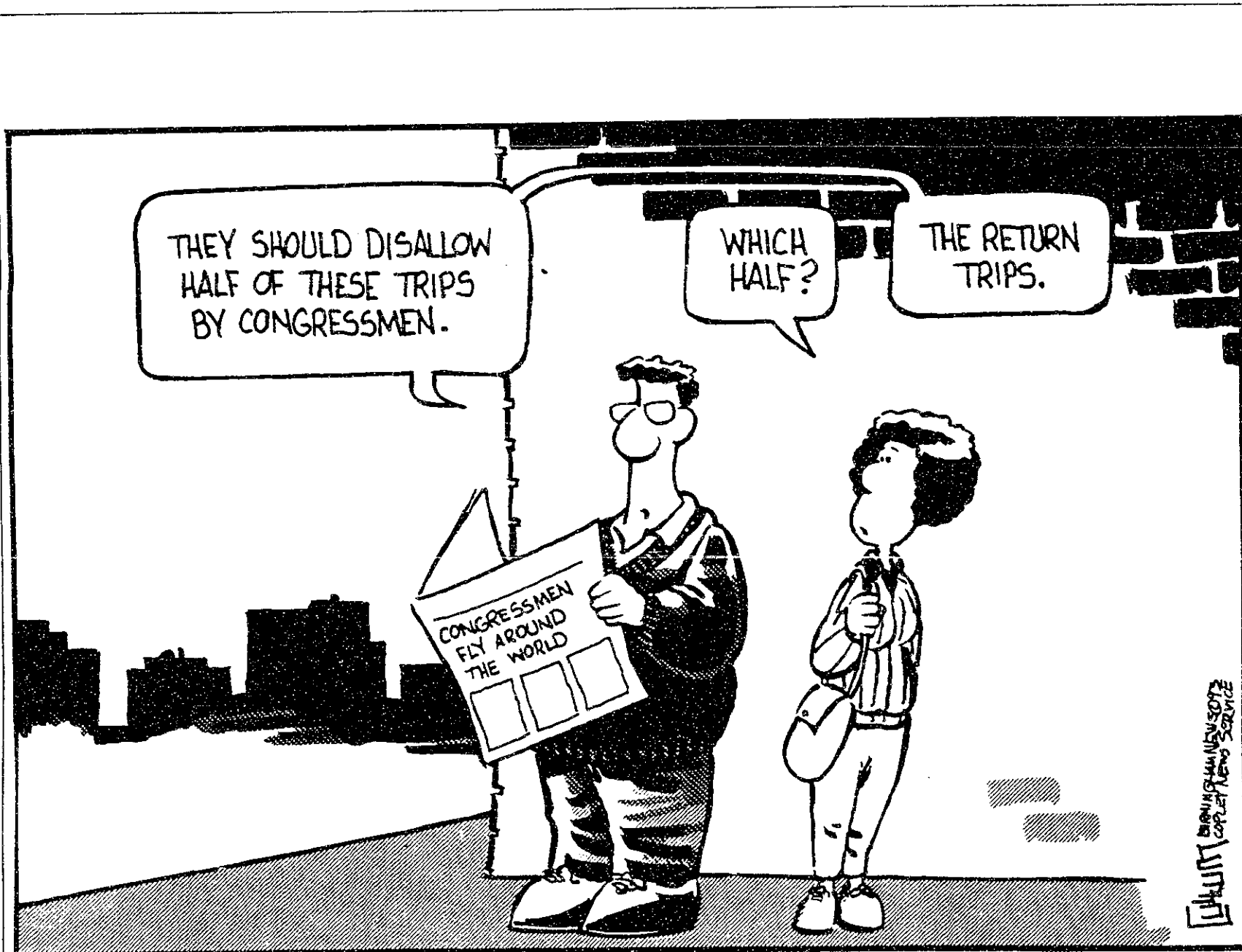
Every awareness and education campaign I have observed has made it clear that complete abstinence is the only foolproof method of prevention. However, proselytizing campaigns tend to fall on deaf ears. Therefore, other forms of education, what Husain merely calls "attention," are used to fulfill one goal — to reach as many people as possible with the education and skills necessary to reduce the risk of getting HIV.

The true nature of our preoccupation with the disease is not what Husain claims — a refusal to give up promiscuous behavior. It is fear — fear that this disease will touch our lives in some way. This fear comes from the fact that this is the first time we, as a developed nation, have had to deal with an infectious disease on this scale in decades. In addition, there does not seem to be any magic bullet, like the lifesaving antibiotic or effective vaccine, on the way soon.

However, because so many cases are completely preventable, we must persist with what Husain calls "worthless propaganda." We call it education and prevention. Whatever form it takes, it fights something as insidious as HIV itself — an "out of sight, out of mind" attitude.

For more information or resources on HIV, members of the MIT community can contact the Health Education office (E23-205), Med-stop (3-123), or talk to a Medlink in their living groups.

Yvonne R. Chan '95



Opinion Policy

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

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

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

Letters to the editor are welcome. They must be typed, double-spaced and addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or by interdepartmental mail to Room W20-483. Electronic submissions in plain text format may be mailed to letters@the-tech.mit.edu. All submissions are due by 4 p.m. two

days before the date of publication.

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

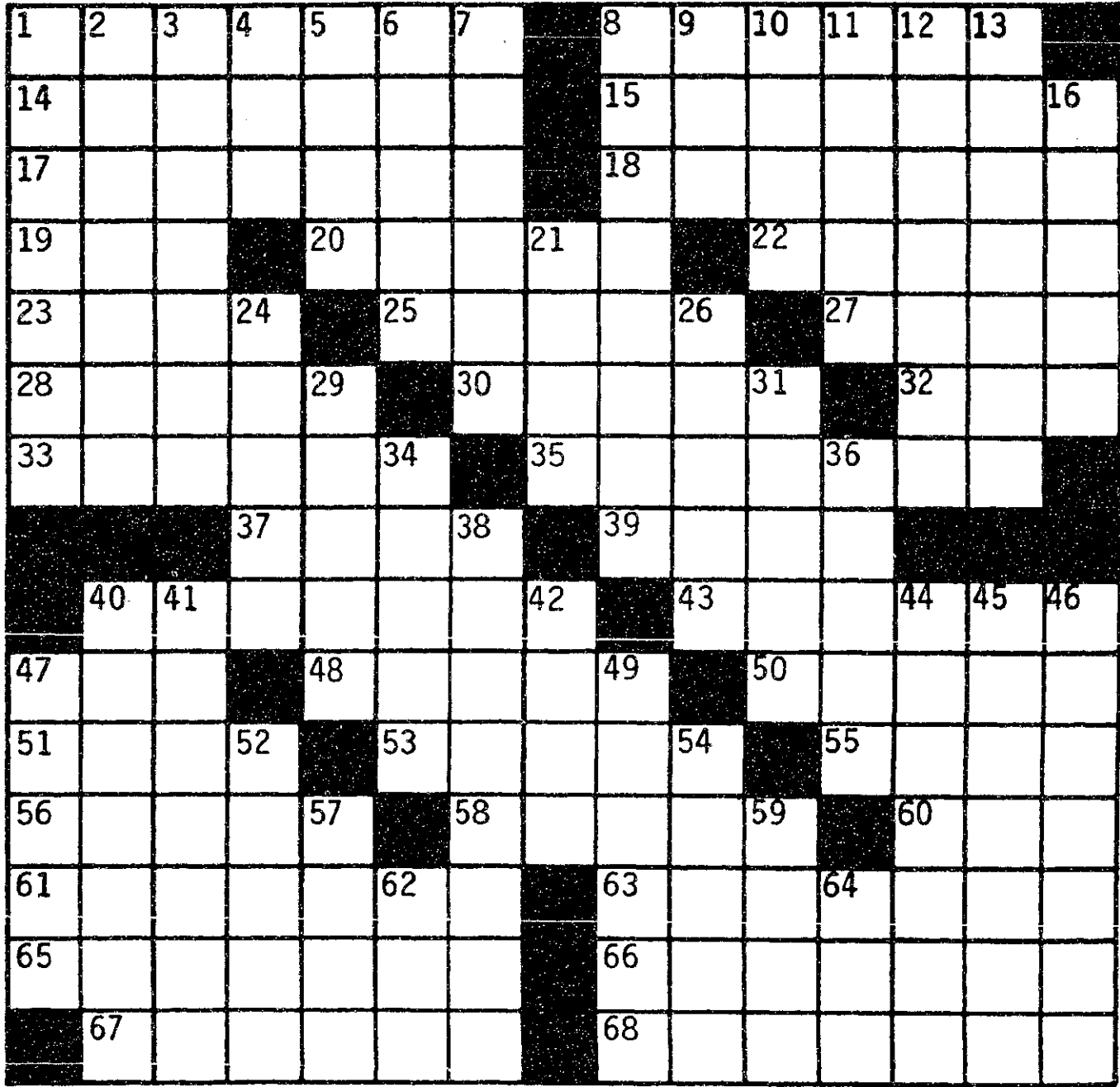
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THE ARTS

Images of Holocaust despair haunt *Schindler's List*

SCHINDLER'S LIST

Starring Liam Neeson, Ralph Fiennes, and Ben Kingsley.

Directed by Steven Spielberg.

Written by Steven Zaillian.

Loews Nickelodeon.

By Patrick Mahoney

STAFF REPORTER

Having grown up as an Irish Catholic in a middle class family, I may not be the most qualified person to comment on a movie about the Holocaust. Then again, although I knew almost nothing about the Holocaust going into the movie, I must say that even I was moved. I was not ready for

a movie which told such a horrific story so masterfully. The images, the people, and even the detestable actions of "the final solution" were all incredibly laid forth by director Steven Spielberg.

The film is done entirely in period black and white. Spielberg begins the film by using newsreel-like footage, and uses that to lead into the story. The technique fits perfectly, and by the middle of the film we don't notice it anymore. Only the end of the film is in color, where Spielberg moves from the freeing of the Jews at the end of the war to a present day shot of many of the descendants of the Schindler Jews.

The images that Spielberg presents look

real. The Jewish ghettos presented may or may not be accurate representations, but they were certainly believable. The images of the people, the streets, the clothing with Jewish stars on the sleeves; all of these are images that Spielberg crafts into a very moving ensemble. Everything is painstakingly crafted to give an overall impression of gloom and despair, yet Spielberg makes sure that the occasional glimpse of hope and faith survives.

The one word that comes to mind describing this movie is powerful. Spielberg makes you see and feel the Holocaust through the actions of Oskar Schindler (Liam Neeson), a Polish businessman who uses Jewish laborers to make pots and pans for the war effort. At

the start of the film, Schindler is no more than a capitalist who sees the advantage of employing Jews because they work for lower wages. Later, we vaguely get the impression that he cares about the Jews he employs, but it isn't until the very end that we actually have any idea of the length to which he will go on behalf of his underprivileged employees.

Neeson delivers a convincing act by making his changes very subtle. Many of the things that he does, such as accepting workers who are old or unskilled, he does through his plant manager, Itzhak Stern (Ben Kingsley). Schindler gives an air of disappointment when

Schindler's, Page 9

Philadelphia entertains with slick but timely message

PHILADELPHIA

Starring Tom Hanks, Denzel Washington,

Jason Robards, Mary Steenburgen,

and Joanne Woodward.

Directed by Jonathan Demme.

Written by Ron Nyswaner.

Loews Copley.

By Scott Deskin

ASSOCIATE ARTS EDITOR

Hollywood's decision to back a movie like *Philadelphia* signifies a major change in social consciousness. The movie is quite candid with its subject matter, namely the AIDS epidemic. Not only does it confront the medical aspect of the AIDS crisis but also tackles the social view

that the general public takes toward people afflicted with the disease.

In this broad sense, *Philadelphia* is a success. Director Jonathan Demme, riding high after his success with *The Silence of the Lambs*, does a good job in depicting the social plague that accompanies those with AIDS. The film's title presents an "everytown" sort of setting, a city that is as open to equality and brotherhood as it is prone to racial mistrust and discrimination.

After a quick glimpse of Philadelphia's streets through the film's opening credits, the story enters the world of Andrew Beckett (Tom Hanks), a young, vital attorney on the fast track for success in a high-powered urban

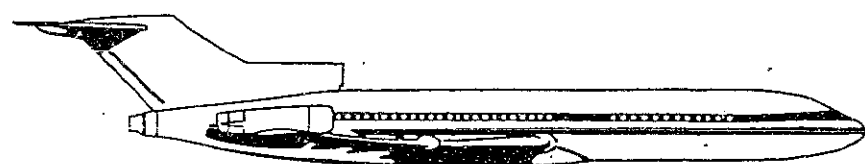
law firm. Beckett's life is far from ideal, however, as he is forced to conceal his homosexuality and his HIV-positive status from his employers, who later condemn his "deviant" behavior in private. His health inevitably deteriorates and, in the midst of handling a major case for the firm, Beckett is suddenly fired, seemingly without just cause.

Beckett's subsequent suit against his former colleagues for AIDS discrimination leads him to seek counsel, after many rejections, from Joe Miller (Denzel Washington). Miller is, at first glance, a world apart from Beckett's interests: He is a small-time personal injury lawyer, better known for television commercials than for legal talent. Miller is also a homophobe, and the chain of events that turn

his emotions in line with Beckett's case is far from unexpected but also is poignant and subtly directed.

The movie's strong points are mainly attributable to the emotional power of the subject matter; yet, the film also suffers from the handling of the material, sometimes mistaking maudlin sentiment for emotional warmth. The effort to make the film topical and accessible to an audience at times seems more slick than heartfelt. The film's courtroom scenes are so carefully constructed that the arguments made by Miller about the public distrust of AIDS, clearly a social issue, is more stilted than inspired.

Philadelphia, Page 9



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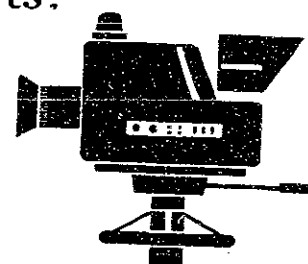
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ON THE SCREEN

— BY THE TECH ARTS STAFF —

★★★★: Excellent
 ★★★: Good
 ★★: Average
 ★: Poor

★★★★½ Malcolm X

Spike Lee has translated the complex life of Malcolm X into a fascinating and involving epic which, like most of Lee's work, raises more questions than it does answers. Despite occasional lapses into excess and the omission of some of Malcolm's more incendiary remarks, the film is a well-balanced portrayal of a man who went through many different phases, each flawlessly acted out by Denzel Washington, in an attempt to right the injustices done to blacks. Although the film, like Malcolm, never comes to a truly workable solution, it expresses the racist problems at the roots of society more powerfully than any other recent movie. *LSC Sunday*

★★★ Mrs. Doubtfire

After a messy divorce, Daniel Hillard (Robin Williams) will do anything to see his kids again. His plot involves becoming a woman. As Mrs. Doubtfire, he manages to turn around his life and the lives of others. Williams' hilarious performance and a few touching scenes make up for a dismal beginning and much run-of-the-mill slapstick. —Craig K. Chang. *Loews Cheri*

★★½ A Perfect World

Kevin Costner plays Butch Haynes, a

criminal with a soft spot for kids. The movie is the story of how Haynes comes to take Phillip — a 7-year-old Jehovah's Witness whom he has kidnapped — as his son. Haynes protects the child as they proceed across the state of Texas fleeing from the state troopers, led by Clint Eastwood, who are pursuing Haynes. Although Costner does a very good job as Haynes, the movie falters with several other problems. Among these are a poorly defined role for Eastwood and curiously undeveloped setting of November 1963. Both of these serve only to distract the audience from the interaction between Haynes and Phillip. —PM. *Loews Copley Place*

★★½ The Pelican Brief

Julia Roberts is a law student who has created a legal brief which details her ideas on who recently murdered two Supreme Court justices and how it relates to the president. Denzel Washington is a reporter for the *Washington Herald* whom Roberts contacts when her lover and his friend are killed after they see the brief. Roberts is near perfect, and plays the stressed and paranoid student to the hilt. Washington is convincing in his role as the determined reporter who will stop at nothing to get a story. The strength of the film is in its ability to carefully develop its plot and keep the audience's attention until the contents of the brief are revealed at the very end. —PM. *Loews Cheri*



Shorty (Spike Lee) is arrested for theft in *Malcolm X*.

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A TRUE STORY FROM THE DIRECTOR OF "MY LEFT FOOT"

DANIEL DAY-LEWIS EMMA THOMPSON

"A BRILLIANT FILM. RIVETING."

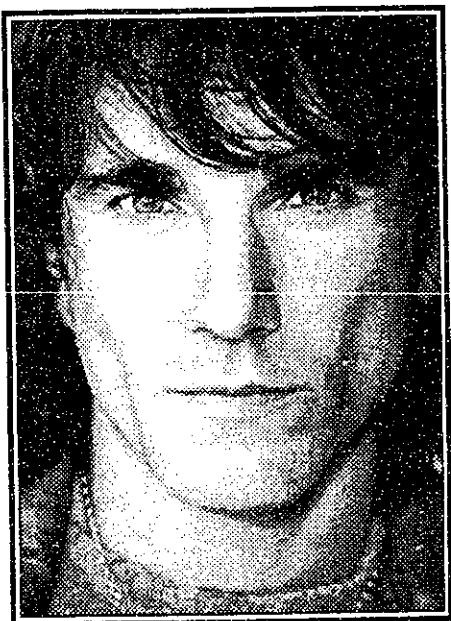
Daniel Day-Lewis gives another dazzling performance in what is so far the role of his career."
 Janet Maslin, NEW YORK TIMES

"A GRIPPING TALE... AN IMPASSIONED MOVIE."

Daniel Day-Lewis's Gerry Conlon is a rich creation."
 David Auer, NEWSWEEK MAGAZINE

"DANIEL DAY-LEWIS IS BRILLIANT."

A splendid ensemble of actors and some of the year's most skillfully kinetic filmmaking."
 TIME MAGAZINE



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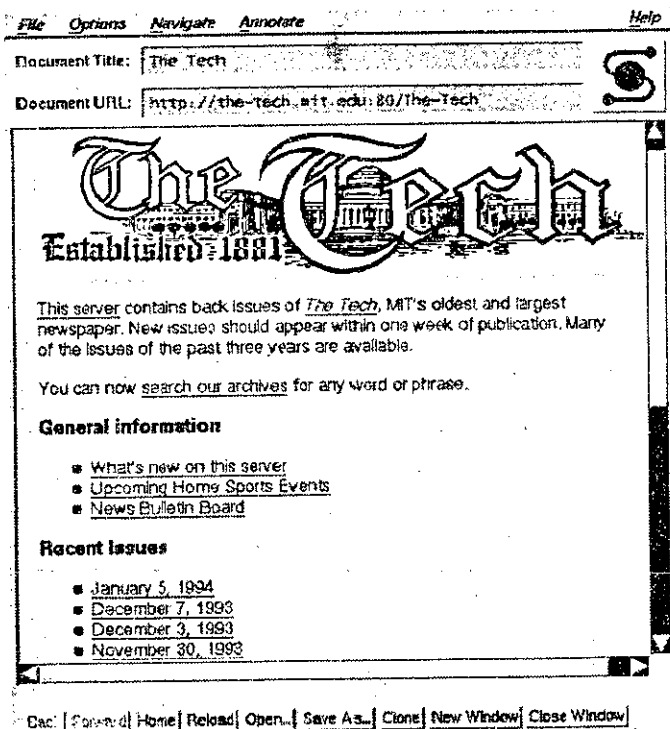
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CAMPUS ARTS

JANUARY 12 — 18

Theater

Teresa Ralli Lecture/Demonstration. Lecture/demonstrations with Teresa Ralli, a leading actress and member of the internationally acclaimed Peruvian theater company Yuyachkani, visiting artists-in-residence at MIT. Ralli will demonstrate her physical and vocal expertise through theory exercises and interactions with traditional and modern masks and costumes.
Jan. 13, 3 p.m. — Kresge Little Theater
Jan. 18, 8 p.m. — Killian Hall (14W-111)
—Information: 253-5623

Visual Arts

Dan Graham: Public/Private. American conceptual artist Dan Graham uses film, video, performance, architectural models, and glass and mirror structures to engage the viewer in recognizing the physical, psychological, and social interactions that occur within public and private spheres. The works included in this 30-year retrospective exhibition underscore the artist's continuing fascination with interior and exterior space and the adjustments viewers make when anticipated boundaries are removed.

Maria Fernanda Cardoso: Recent Sculpture. Colombian artist Maria Fernanda Cardoso creates elegant, Minimalist-inspired sculpture from materials exotic to a North American audience, such as preserved frogs, snakes, lizards, and addresses cross-cultural communication, particularly as it relates to the presentation and interpretation of art, as well as the often-charged relationships between humans and other species.
Exhibitions run Jan. 15 through Mar. 27
Opening Reception: Jan. 14, 5-7 p.m.

Music

MIT Festival Jazz Ensemble Performance at IAJE Conference. The MIT Festival Jazz Ensemble will participate in the 21st Annual International Conference of the International

Association of Jazz Educators to be held at the Sheraton Boston Hotel and Towers and the Hynes Convention Center, Jan. 13-16. The conference, which features concerts and clinics, will also focus on the music industry's products and services and the technology used in jazz and jazz education.

Jan. 13, 11 a.m. (FJE performance) — Sheraton Boston Hotel Grand Ballroom, 39 Dalton St., Boston.

Journey Into a Dream: Musical Tribute to Martin Luther King. Annual Martin Luther King Celebration/Tribute performed by jazz vocalist Semenya McCord and Associates.

Jan. 15, 8 p.m. — Kresge Auditorium (Call to confirm.)
—Information: 253-2700

MIT Composers Ensemble
Original compositions by MIT composers. Featured on the program are: Chris Adler '94, David Alt '93, Adrian Childs '94, Alan deLeSpinasse '94, Dan Hosken '90, and Dan Schmidt '91. Additional musicians for this concert include Dianne Ahmann G, clarinet; Deb Kreuze '91, soprano; and Bernadette Meiler (Harvard), violin.
Jan. 15, 2 p.m. — Killian Hall

Film

Japanese Tuesday Nights at the Flicks: "The Golden Age of the Samurai."
In Japanese with English subtitles. Presented by the MIT Japan Program/Japanese Language Program at MIT. Room 2-105.
—Information: 253-2839.

Sword of Doom. Kihachi Okamoto's 1966 classic about a vile, brooding loner of the Tokugawa period.
Jan. 18, 7 p.m.

Kagemusha. Akira Kurasawa's acclaimed epic drama of feudal conflict in 16th-century Japan.
Jan. 18, 9 p.m.

Museum Exhibits

Strobe Alley: Optical Alchemy. Full-color fluorescent photographs of corals and anemones by Charles H. Mazel SM '76, a research engineer in the Department of Ocean Engineering, taken at night during underwater dives. Matched pairs of images offer a comparison between the subject under "normal" reflected-light photography and under illumination with ultraviolet light. (Ongoing)
—Information: 253-4444

Hart Nautical Gallery:
55 Massachusetts Ave, Weekdays 9-8
—Information: 253-5942

Course 13, 1893-1993: From Naval Architecture to Ocean Engineering. The development of the Department of Naval Architecture from its early years to 1970 when its name changed to the "Department of Ocean Engineering." Exhibition includes historic photos, models, and computer graphics, and highlights a sampling of current research including that performed by the department for Bill Koch's '62 successful America's Cup campaign with *America3*. (Ongoing)
Boston Fisheries 1900-1920. Photographs documenting Boston's T Wharf area.

MIT Museum:
265 Massachusetts Ave.,
Tues-Fri 9-5 p.m., Sat-Sun 1-5 p.m.
Requested donation: \$2.
—Information: 253-4444
The Works of Charles H. Woodbury. After several years on tour, this major retrospective of the oils, watercolors, etchings, and drawings of Charles H. Woodbury returns to the MIT Museum. Artist/Teacher Charles H. Woodbury (1864-1940) was born in Lynn, graduated from MIT in 1886 and

established himself in Ogunquit, Maine in 1888, where he founded the Ogunquit art colony. This collection of Woodbury's work was described by New York art dealer Beth Urdang as "gorgeous and illuminating." (No definite closing date)

Crazy After Calculus: Humor at MIT. The history of MIT "hacks."

Doc Edgerton: Stopping Time. Photographs, instruments and memorabilia documenting the invention and use of the strobe light by the late Harold E. Edgerton ScD '27.

Holography: Types and Applications. Scientific, medical, technical, and artistic imaging drawn from the work of the Spatial Imaging Group at the Media Lab.

Light Sculptures by Bill Parker '74. Vivid interactive light sculptures, each with its own personality and set of moods.

Math in 3D: Geometric Sculptures by Morton G. Bradley Jr. Colorful revolving sculptures based on mathematical formulae.

MathSpace. Hands-on exploration of geometry is the theme as visitors tinker with math playthings.

**** All events free unless otherwise noted ****

If you would like your MIT arts event to appear in future listings, call The Tech at 3-1541 and ask for Ann or Michael or send e-mail to arts@the-tech.mit.edu.



"Soft Sand" by Charles H. Woodbury

Are you concerned about safety at MIT?

Do you need some extra cash?

Then you'll be glad to know that coming this semester is:

SAFEWALK

MIT Student Escort & Patrol Service

The primary objectives of the service will be to:

- Escort individuals who need to get to potentially unsafe or unguarded areas of the campus (e.g. cars, labs, ILGs).
- Supplement the MIT Campus Police patrolling efforts in the interior of campus by serving as extra "eyes and ears".

Paid positions will be available for:

- **Student Administrator** — One student per semester will be responsible for payroll, scheduling, and other administrative duties.
- **Dispatchers** — One student per night will be responsible for answering calls and contacting escorts.
- **Escorts** — Each two-member escort team will ensure safe transit across campus for persons requesting an escort.

Training sessions will be held in early February and service will begin in mid-February.

For application forms or more information, please contact either:

- Susan Ipri, x3-3772, slipri@mit.edu
- Ken Porter, 730-8211, kporter@mit.edu

C++ Programmer

Needed to assist in designing and developing a prototype for a database retrieval system. Extensive experience in C++ and Windows™ applications development required.

Send cover letter and resume to
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Spielberg masterfully directs historical drama

Schindler's, from Page 6

he learns about many of the practices that Stern is engaged in. But at no point does he ask Stern to stop, and later in the film we see that he actively instructs Stern to do things that he would have frowned upon earlier. All this time, he maintains the illusion of being a practicing member of the Nazi party. In the end, he has changed to the point where he begs other businessmen to help to "purchase" more Jewish workers for his new armaments factory.

The film is extremely graphic. Spielberg captures much of the "randomness" of the

killings that occur within the concentration camps. The audience *sees* the progression from forced registration, to life in the ghettos, to life in the camps. Spielberg takes us vividly through each repulsive stage.

Neeson is superb. He shows no emotion, exactly as we would expect. His transformation from esteemed member of the Nazi party to a "righteous" man who saves a thousand Jewish people is adequately slow and well developed. Perhaps the most important reason that he is so believable is that until the very end, we never see the emotional side of him. He appears to be a simple businessman, but at

the end, when he relocates his business to Yugoslavia, we understand that he really isn't. He doesn't care about business. He has other, more important concerns.

Kingsley, too, does a fine job. He plays the clever, almost devious, accountant excellently. We see that he is more concerned with saving others than with saving himself. He seems to know all the rules of the game and how to use all of them to his advantage.

Ralph Fiennes also excellently portrays Amon Goeth, the Commandant of the labor camp, who is unswerving in his hatred of the Jewish race and in his dedication to the Nazi

party. Fiennes' spiteful attitude and uncontrollable temper serve to emphasize the brutality with which the Germans treated their prisoners.

Above all, this movie functions well as a history lesson. Coming in knowing only a small portion of what happened in that grim section of human history, I found that I left with a much greater understanding of what it was like. You don't need to know anything about the Holocaust to be able to benefit from watching this movie. On the contrary, this may be one of the better ways to learn about it. It certainly is much more convincing and powerful than any history book I have read.

Hanks, Washington save film from Hollywood whitewash

Philadelphia, from Page 6

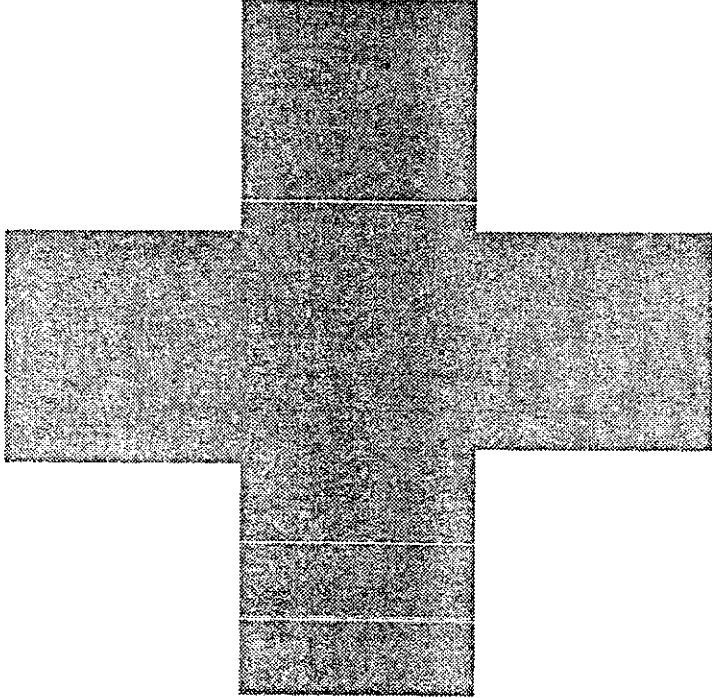
Some of the casting moves are obvious. The fact that Washington's character is black allows to him to view the subject of discrimination, on any grounds, with greater clarity. Joanne Woodward, as Beckett's mother, con-

veys genuine feeling as the family matriarch who supports her son's battle in court. And Jason Robards, who fits in effortlessly into the firm's old-boys network of senior partners, is a safe choice for the main adversary.

Hanks, though, delivers a powerful performance as the lawyer who is determined to win

his case even as his own life begins to fade. Hanks makes the audience see beyond the make-up and thinning hair of an AIDS victim to a person of greater importance — a victim of prejudice. Hanks and Washington are both excellent, and together they help overcome some of Demme's heavy-handed direction to

create a lasting image of justice and emotion fighting the system. *Philadelphia* is not the revelation on AIDS that it was hyped to be, nor is it the flawless piece of social commentary it could have been, but it still carries enough emotion and power to affect an audience deeply.



Blood Drive

Wednesday, January 12
10:00a.m. - 5:00p.m.

La Sala De Puerto Rico - Student Center

Contact T.C.A. at 3-4885 or the American Red Cross
at 1-800-258-0025 ext 2095 or 2092
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Do you teach? Do you plan on teaching some day? Then check out this monthful of provocative sessions. Open to all -- faculty, graduate students, undergraduate students, and staff.

Monday	Tuesday	Wednesday	Thursday	Friday
I A P January 1994			6 <i>Getting Students Hyper-Excited About Putting Theory to Practice</i> Alex Slocum 2pm, 35-225	7 <i>Building Confidence and Morale</i> Steven Lerman 11am, 2-105
10 <i>Working with Students (and with Students' Problems)</i> Robert Randolph and Kirk Kolenbrander 11am, 10-280	11 <i>Outrageous Ideas: Rethinking the Basic Elements of a Course</i> Mark Schuster 11am, 16-134	12 <i>Science Teaching Forum: What's There to Discuss?</i> Daniel Goroff and Brian White 2pm, 16-134	13 <i>(A Little) Writing, Everyone? Ten Painless Gimmicks</i> Travis Merritt, Les Perelman, and Ian Waitz 2pm, 16-134	14 <i>Teaching a Recitation Section: Tips to Ensure Success and Save Time</i> Donald Sadoway and Jackie Acho 2pm, 16-134
17 <i>Institute Holiday: Martin Luther King, Jr. Day</i>	18 <i>Good Teaching: At what cost? At what benefit?</i> Hermann Haus and Frank Solomon 2pm, 2-105	19 <i>Teaching Laboratory Subjects</i> Jennifer Caulfield and Jonathan Wilker 2pm, 2-105	20 <i>Teaching People to Think</i> Shaoul Ezekiel 11am, 2-105	21 <i>Teaching in English — Your Second Language</i> Suzanne Koons 11am, 10-280
24 <i>Should You do it With a Computer?</i> Greg Jackson 11am, 6-120	25 <i>Producing and Teaching a Successful Subject</i> Daniel Kemp 11am, 6-120	26 <i>How to Speak</i> Patrick Winston 11am, 6-120	Sponsored by Undergraduate Academic Affairs and the Dean of the Graduate School. Contact: Peggy Enders: 7-133, x3-3561	

Researchers Exposed Boys to Small Radiation Doses

Radiation, from Page 1

by Harris at the Fernald school investigated the way the body absorbs calcium and iron. Litster calculated the level of radiation exposure in the experiments from four papers and a PhD thesis written about the experiments.

To understand how the body picks up iron from food, a radioactive iron tracer was placed in the breakfasts of 17 residents over a period of 40 months. The residents ranged in age from 12 to 17.

The radiation the subjects were exposed to varied with their body

weights, in the same way that blood alcohol levels is a function of weight. The smallest of the youths in the experiment, who weighed 70 pounds, received a 330 millirem dose, slightly higher than the 300 millirems Boston residents receive each year from background radiation. (See box for explanation of radiation exposure measurements.)

The average dose for the youths was 230 millirems. The largest subject, who weighed 135 pounds, was exposed to 170 millirems. All the doses were well below both guidelines at the time and today's guidelines for radiation exposure.

The second experiment studied the way calcium is absorbed from milk. The researchers gave 45 youths small doses of radioactive calcium that ranged from about 4 to 12 millirems.

The results of the experiments provided valuable insights into nutrition, Litster said. "They did learn some interesting things from these experiments. ... Certainly the calcium studies laid the groundwork for all kinds of follow-up studies involving calcium, metabolism, trying to understand osteoporosis."

Control of diet necessary

In published reports, the Fernald school experiments have been criticized because they were performed on a segregated population of mentally ill or deficient subjects. One Massachusetts mental health official described them as "barbaric."

Litster said he thought that characterization was unfair. He said he doubted that anyone involved placed a lower value on the lives of the subjects because they were retarded.

The choice of the Fernald school

as site of the experiment was rather one of convenience, Litster suggested. "You needed to have people whose diet was carefully controlled, and you needed to collect all their waste products. And people who were all living together in an institution made a very convenient set of subjects," he said.

Still, Litster said that the research would be more seriously questioned today. "People's attitude towards radiation has changed and I think people's attitudes towards medical experimentation involving especially children and mentally defective people has also changed," he said.

Litster explained that all experiments on human subjects carried out at MIT today are reviewed by the Committee of the Use of Humans as Experimental Subjects. The Committee and other government and medical bodies enforce more stringent standards for radiation experiments and experiments involving children than were in place in the 1940s and 1950s.

Consent procedures different

Securing the informed consent of subjects was "up to the ethics of the individual investigator" at the time the experiments were carried out, Litster explained.

"None of our MIT people were medical people, so that ... they would naturally collaborate in some way with a medical person," Litster said. "The procedure in those days was that the medical person who provided access to the patients was the one who was responsible for the informed consent process."

According to a report published in *The Boston Globe*, parents of the youths at the Fernald school were probably not told that the nutritional experiments their children would be participating in involved radioactive tracers.

Part Time Programming Position

Software company founded by MIT grad and located in Kendall Square is seeking a part-time programmer to work with PC relational databases. Candidates must have good programming skills and knowledge of one or more relational database languages. Hours are flexible, with an average time commitment of 12 hours per week. Compensation will be competitive. **This position could lead to full-time employment next summer.** Please mail/fax resume or letter with qualifications. All responses must be received by January 19th. Interviews will be conducted during Independent Activities Period.

GEOSEGMENT SYSTEMS

One Kendall Square
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Cambridge, MA 02139
(617) 494-8835 fax

Radiation Exposure in Millirems

5000	The current yearly limit for exposure for adults who work with radioactive materials.
500	The current yearly limit for minors working with radiation. Set at 10 percent of the adult limit.
400	Natural background radiation in Denver each year.
330	Highest dose received by subject of iron experiment at Fernald school.
300	Natural background radiation in Boston each year.
230	Average dose of subject in Fernald iron experiment.
170	Lowest dose of subject in Fernald iron experiment.
30	Approximate exposure from radioactive elements occurring naturally in the body.
12	Greatest exposure caused by Fernald calcium experiments.
10	Exposure received during flight from Boston to California.
2	Dose the body receives from a chest X-ray; the chest receives a higher dose.

The radiation exposure of youths at the Walter E. Fernald School — as a result of experiments conducted by MIT researchers — was calculated by Dean for Research J. David Litster PhD '65 from the researchers' published findings.

The table below lists the approximate exposure caused by the experiments, and by a variety of other natural and medical causes.

Radiation exposure is measured by the rem, which is calculated so that values from different kinds of radiation can be compared. A rem is equivalent to one rad applied uniformly to the whole body; one rad equals the deposition of one erg of energy per gram of matter.

The highest dose of radiation received by any of the subjects was 330 millirem. The equivalent increase in the lifetime risk of fatal cancer it caused is 1 in 2,000. The normal lifetime risk of contracting fatal cancer is 1 in 5, and the lifetime risk of contracting some cancer, fatal or otherwise, is 1 in 3.

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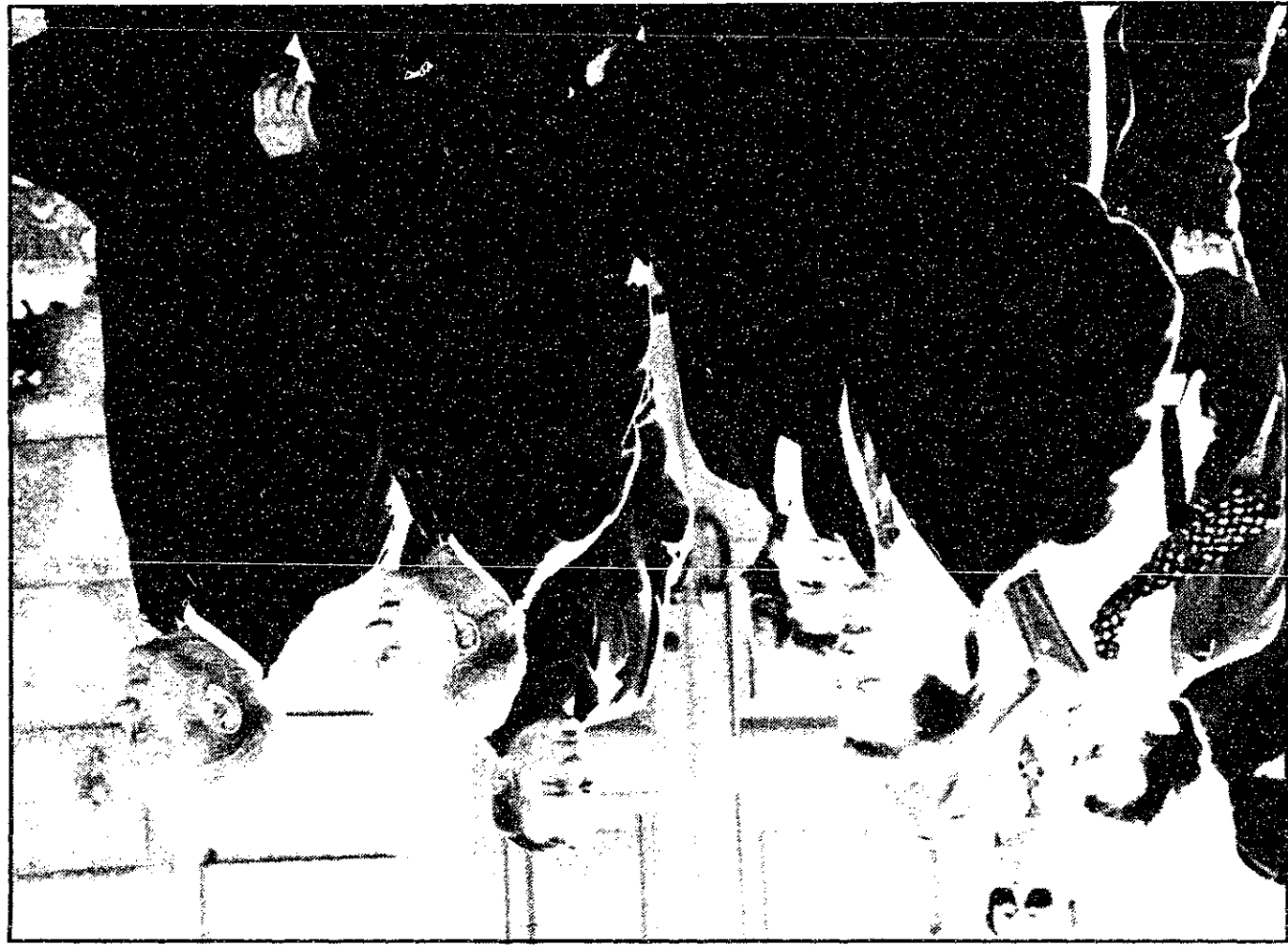
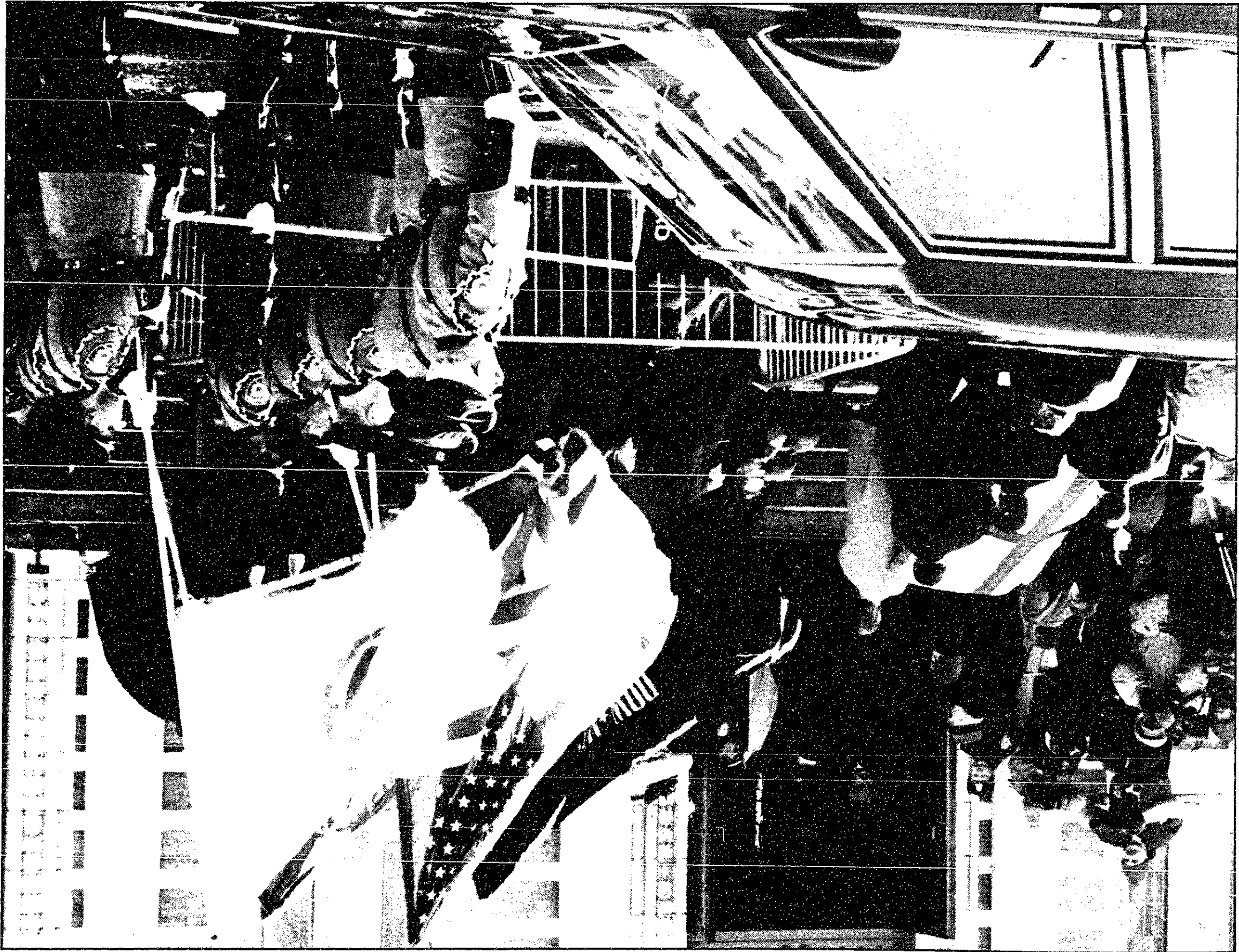
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O'Neill Laid to Rest

More than 1,700 attended the Monday morning funeral mass of Thomas P. "Tip" O'Neill at St. John's Church in North Cambridge, after serving as the Speaker of the U.S. House of Representatives from 1977 to 1987. Vice President Al Gore, former Presidents Gerald R. Ford and Jimmy Carter, current Speaker Thomas S. Foley, Foley's predecessor Jim Wright, and over 100 current and past Congressmen attended the funeral.

Many also stood outside in the 15°F cold, listening to the private mass over loudspeakers erected outside the church. O'Neill was buried later in a cemetery on Cape Cod.



Photos by Thomas R. Karlo

IAP Seminar Gives Advice: How to Get a UROP

By Daniel C. Stevenson
ASSOCIATE NIGHT EDITOR

"You'll have to start somewhere — professors are not just like you," said Claude J. Poux, an administrator for the Undergraduate Research Opportunities Program, advising an undergraduate interested in getting involved in research.

Poux spoke yesterday afternoon in 6-120 as part of an IAP seminar entitled *UROP Exploration: How to, When to, Why to, Where to, Who to*. Poux presented guidelines for finding a UROP (see chart) and discussed résumé writing and UROP procedures.

UROP seekers should physically visit their prospective UROP faculty adviser, Poux advised. "Don't call, just show up on their doorstep," he said. "I can't underscore enough the impact you'll make on the faculty."

Poux counseled students to clip a snapshot of themselves to their résumé so that the professor will have a face to associate with the description. He also suggested that prospective researchers familiarize themselves with the professor's work and ask about current research papers.

When applying for a UROP, think about "what might captivate you"

Poux said. He encouraged students to have some sense of their interests before talking to a professor.

Credit, pay, or volunteer

Poux described the three kinds of UROPs available for students: credit, pay, and volunteer. Credit might not be a feasible option for first-year students, said Poux, because of credit limits.

To receive pay for a UROP, students need to first discuss with their supervisor whether or not the lab or the UROP office will provide funding. The minimum wage for research is \$6.90 an hour, but some students, especially computer science majors, can make up to \$17 per hour, according to Poux. For a regular UROP, expect to work between eight and 15 hours a week, Poux said.

Students who do not choose or want credit or pay UROPs can choose volunteer UROPs instead. "Volunteer UROPs are encouraged for people who are not sure they want to immerse themselves in the research enterprise," Poux said. Such UROPs would involve "hanging around the research area" or shadowing a researcher.

In addition, freshmen who want

to have a summer UROP should have previous UROP experience, Poux noted. A volunteer UROP starting in February or March would be a "launching pad to a full summer UROP."

Of the 15 weeks available for summer UROPs, students are expected to work for 12 weeks, Poux said. In response to a question about summer housing costs, Poux acknowledged that "UROP does not pay for your housing," but inexpensive housing options are available, including renting rooms at fraternity houses and cooperative living group arrangements.

Résumé guidelines

Several students at the seminar asked about the recommended content of a résumé. Poux advised keeping the size down to a single page, but "if what you have to put down is really of substance" two pages can be used. Some tricks to fit more content on a single page are using 0.5 inch margins and 10 point text, but no smaller.

For high school activities, Poux suggested listing only those activities or achievements which were particularly outstanding or in which the student held one of the top two

positions.

For students who are applying for UROPs in two diverse areas, Poux recommended preparing two different résumés, one geared to each area.

Feedback in the form of UROP evaluations is important, Poux said. "Basically we're interested in frank, honest, direct feedback about your experience." The evaluations are "99 percent confidential" according to Poux. The only time evaluations are used outside of the UROP program are for conflict resolution, and

then only with the student's consent, Poux said.

Poux advised prospective researchers to visit their professors and submit their proposals as soon as possible, as the review of UROP proposals for the spring term begins on Jan. 14. For summer UROPs, the review process begins April 1, and on Registration Day for the fall term.

If students have any questions, Poux encouraged them to call the UROP office at 253-7306, or send electronic mail to urop@mit.edu.

Basic Guidelines for Finding a UROP

1. Have a résumé ready.
2. Obtain copies of recent publications in the field.
3. Do not call faculty members to inquire about UROPs. And if they request that you set up an appointment, do so.
4. Talk to administrators and ask them to suggest faculty that you might approach.
5. Be ready to talk about your interests.
6. If you want to propose your own project, make sure that the faculty member is interested in supervising your work.
7. Read the UROP bulletin board in the Infinite Corridor.
8. Visit the UROP Office at 20B-140 for assistance.
9. Once you have found a UROP, come to the UROP office to secure the proper forms to complete your application.

UROP OFFICE

On-Campus Resnet to Be Activated Next Tuesday

By A. Arif Husain
STAFF REPORTER

Resnet, the newest addition to MIT's growing electronic network, will go online next Tuesday. The service will allow students to conduct many functions available on Athena from their personal computers.

The ongoing project, started last summer, has already connected all of the off-campus independent living groups and Huntington Hall to MITnet. This latest installment will span the undergraduate dormitories. Information Systems, the Institute-employed group in charge of the project, hopes Resnet will alleviate some of the load on the campus Athena clusters, according to Resnet Support Coordinator Michael L. Barrow.

"Resnet is intended to extend the network to the residences," Barrow said. "Students will get access to files, and will be able to communicate with other students around the world," he added. "Hopefully [students] will soon start contributing information to the Internet in addition to gathering it."

Using Resnet, students who own Macintoshes and DOS-based computers with appropriate networking hardware will have access to news, mail, and general information archives anywhere on the global Internet. Aside from the basic ethics policy mandated by IS, usage will be unrestricted. With applications such as TechMail, Gopher, Mosaic, and Zephyr available for distribution, Resnet users will be able to emulate many of their Athena activities on their own systems.

"Personally, I find Resnet to be amazing," said Erik L. Nygren '96. "While many students will find that they have absolutely no use for it, others will find it very useful and will wonder how they ever lived without it."

The physical infrastructure of Resnet is comprised of 10 megabit-per-second optical fiber extended from a router on MITnet to each of the 10 undergraduate dormitories. Repeaters in the dormitory phone closets link the drops, via twisted-pair Ethernet cabling, to each room. Hardware will be provided to accommodate a connection for

each resident of multi-occupancy rooms.

Off-campus ILGs will gain access to Resnet through a frame-relay system using 56 kbps lines leased from NYNEX. Huntington Hall is connected with a 1.54 Mbps leased line. A link was provided to each ILG in September, but internal distribution of the service was left for each group to decide. While the leased lines are not as powerful as their on-campus counterparts, they provide ample service, and are the most effective method of networking such a widely dispersed group, Barrow said.

How to access Resnet

Students interested in accessing Resnet must meet with one of the Residential Computing Consultants assigned to their dormitory, Barrow said. Nineteen such consultants, all undergraduates, were hired by IS Distributed Computing and Network Services to help people use Resnet. The RCCs will provide their constituents with a network address, software, and any external

wiring needed.

In a further push to reduce some of the surplus load on the Athena network, most of the computers supporting modem dial-in access will be converted to express systems. Express keeps usage down by limiting access time to 15 minutes when more than 10 users are logged in. In this way, students will be encouraged to use their own systems as much as possible, using the dial-up service only when necessary, Barrow said.

While Resnet will be available to most students on Tuesday, residents of MacGregor House crowded lounges may face some delays in their connection due to an internal misunderstanding, said RCC Rupert C. Young '94. Both the network contractors and the engineering staff reported the successful installation of network ports in the MacGregor lounges. Upon recent inspection, however, IS found the rooms to be deficient. Attempts will be made to remedy the situation as soon as possible, Young said, but it may take a few weeks.

Conference Focuses On Black Women

Women, from Page 1.

will take place.

Original idea for the conference

Kilson came up with the idea for the conference "through [her] personal frustration through the sense of isolation as a black woman." There are few black female faculty members, especially here at MIT, she noted.

Furthermore, when she went to academic conferences, she felt isolated because few black women were present. With this conference, black women can have the "experience of being in the majority instead of the minority for a change."

She came up with the idea four years ago, then found collaborators to help her plan the conference. Evelyn M. Hammonds, professor of the history of science, is the other organizer. The conference is sponsored by MIT, Wellesley College,

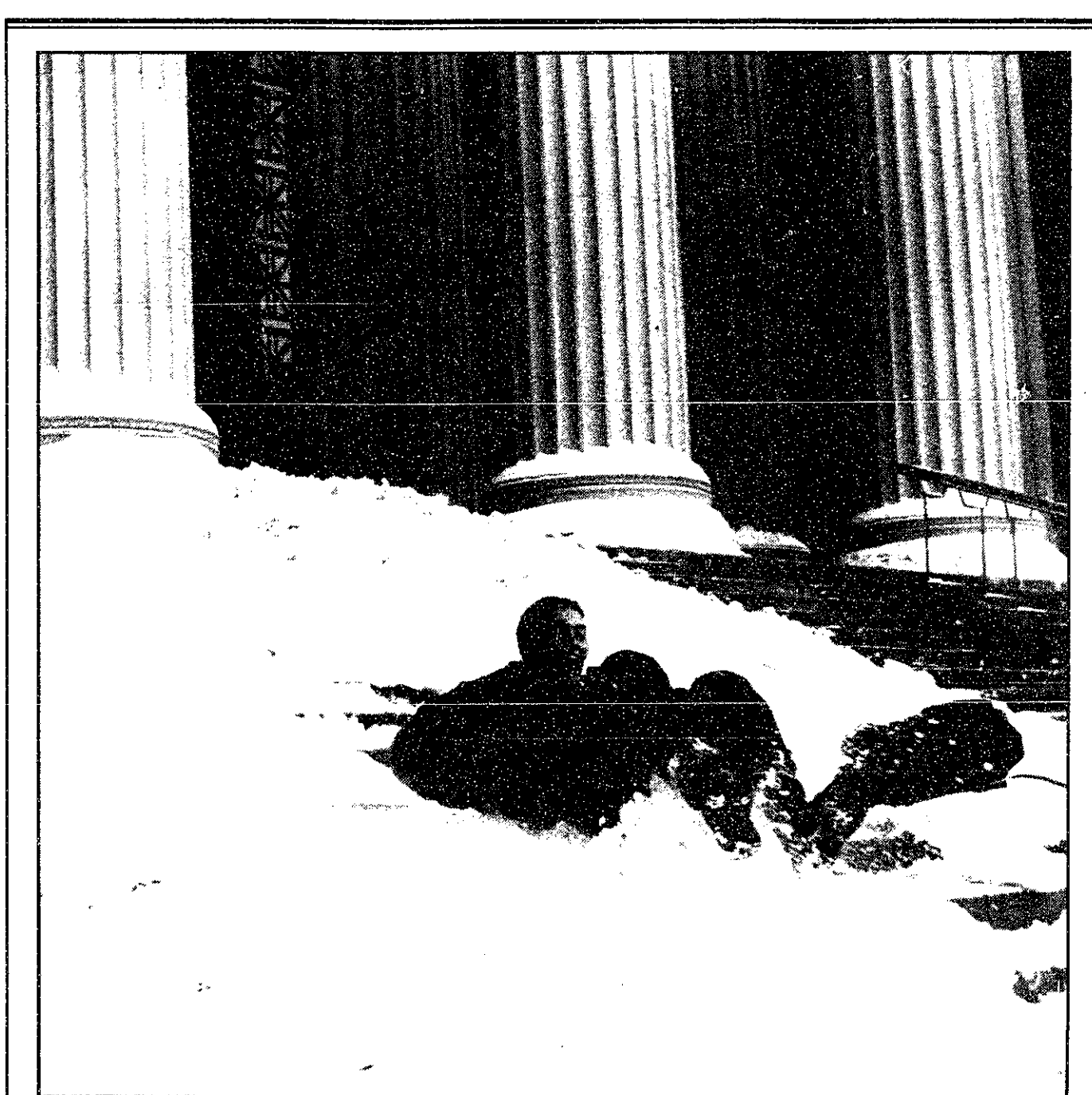
Radcliffe College, and several foundations.

If there were a prototype to this conference, it would be a small meeting held about 20 years ago at Radcliffe College, Kilson said. One hundred people attended the event.

Because of the great amount of planning required and the high costs, the conference will not be an annual event, Kilson said. Planning this conference has "taken up 14 months of my life," she said.

Kilson hopes another school will take on the project three to five years from now. A likely choice would be Spelman College in Atlanta, she said. Spelman is a college for black women.

Though it is still possible to register for the conference, people should be aware that registration has exceeded the capacity of Kresge, Kilson said. Interested people could still see the keynote speeches via video monitors in designated over-



A student sleds down the new slopes at 77 Massachusetts Ave.

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The Tech
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Guidelines Favor Rich Schools

lap, from Page 1

principle that colleges, in award-
their funds for scholarships, can
w the same principles that the
government has followed in
er education. That principle is
because those funds are limited,
ncial aid in the form of loans
grants are awarded to students
could not attend college with-
financial assistance.”
“This commitment [to providing
financial aid] ensures that stu-
ts will not lose the opportunity
attend MIT or other participating
leges because they or their fami-
s cannot afford to pay,” said
bert E. Litan, deputy assistant
orney general for the Antitrust
vision of the Justice Department.
Rudenstine objected to this argu-
ent. “For the overwhelming
majority of American colleges and
iversities, fulfilling these twin
edges — however desirable in
eory — is in fact an economic
possibility.”
“Philosophically and economi-
lly, that is the stumbling block,”
id Dan Bedderton, director of
nancial aid for Princeton Universi-
While Bedderton said that
inceton does not have a problem

committing to providing such assis-
tance to its students, he felt many
smaller schools would not be so for-
tunate. “When it comes down to the
bottom line of pocket books ...
many of them would say they can-
not afford it.”
Michael Gass, attorney for MIT,
said the issue of limited financial
resources in smaller schools pre-
sented difficulties. “We’ve been try-
ing to look out for other colleges as
well,” Gass said. “The benefits of
this mechanism should be available
to anybody.”
Small colleges react
“I see the issues that MIT fought
for as being fairly fundamental to
financial aid,” said Joe Paul Case,
dean of financial aid at Amherst
College. “However, I am concerned
that [under the settlement] this is
limited to only institutes with vast
financial resources.”
While Case did not predict any
immediate changes in Amherst’s
financial aid policies, he did say that
Amherst was “interested in what
Overlap did” and currently provides
both need-blind admissions and full
need-based aid.
“I am concerned about the
specifics of who may participate,”
Case said. “It seems to me that

[these issues have been] rather fun-
damental to the direction of finan-
cial aid over the last four decades,
and in that sense, it results in a
falling short of what I had hoped
for.”
Walter H. Moutlon, director of
financial aid for Bowdoin College,
said that Bowdoin also currently
uses need-blind admissions and full
need-based aid. However, he said
that these policies are based on
year-to-year resources and said,
“there is no way we can guarantee”
being able to provide these services.
Moutlon said that the require-
ment imposed by the settlement
“substantially reduced the value of
the decision.”
“If you make that pledge, you
don’t know whether you will be
able to make it for any period of
time,” said Mary Patterson McPherson,
president of Bryn Mawr Col-
lege, in *The Chronicle of Higher
Education*.
“The settlement agreement
reached ... by the Justice Depart-
ment and MIT is a first step —
though only a first step — toward
recognizing the importance of cer-
tain cooperative arrangements
among colleges and universities for
student financial aid,” Rudenstine
said.

Donation to Fund Scholarships

Donation, from Page 1

lent Charles M. Vest said. “Thurow
can provide extraordinary leader-
ship in this regard.”
MIT and Lemelson were “a per-
fect match” because of the insti-
tute’s tradition of innovation,
Amparo said.
“MIT is an ideal partner because
of its longstanding commitment to
fostering the spirit of invention and
the development of technological
innovation and the international
respect it commands,” Lemelson
said.
Lemelson holds the fourth high-
est number of patents in American
history. Elihu Thomson, a former
electrical engineering professor at
MIT and acting president from 1920
to 1922, holds the second highest,
behind Thomas A. Edison.
Lemelson’s holds patents for the
camcorder, the compact disk, the
magnetic tape drive mechanisms
used in walkmans, VCRs, cordless
telephones, and fax machines.
‘Innovation crisis’
America is facing an innovation
crisis, said Lemelson, referring to a
recent survey that found almost 75
percent of high school students
would rather be in show business

than be an inventor.
“We must convince our nation’s
young people that the field of inven-
tion can be far more rewarding —
financially and in other respects —
than most of our young people
think,” Lemelson said.
Lemelson “has a grand vision
here of trying to make invention as
salient as being an athletic hero to
young people,” said Glen L. Urban,
dean of the Sloan School of Man-
agement. Lemelson’s initiative is
“very good for Sloan,” Urban said.
“It is consistent with our strategy to
support innovation in organiza-
tions.”
In the future, organizations are
going to have to be inventive to
compete, according to Urban. “The
critical success factor will be inno-
vation,” he said.
Success in invention and innova-
tion is linked to economic success,
Lemelson said. “By growing our
own technology and rewarding
American inventors with protectable
patents, we create jobs at home and
capture revenue streams throughout
the globe.”
The program at MIT is an integral
part of Lemelson’s plan. “The
prize program and MIT’s other
commitments to stimulating inven-
tion can set a precedent that other

influential American institutions can
follow to ensure America’s future
economic success,” Lemelson said.
Lemelson’s MIT venture is part
of a \$10 million initiative that
includes a series of projects at
Hampshire College in Amherst,
Mass. Projects include the National
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the Lemelson Fellowships. The fel-
lowships support student entrepre-
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Puzzle, page 5

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Frank Caserta, Jr., Ph.D. '79
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Many biological systems appear to be fractal in shape. Examples
include the chick embryo circulatory system and the structure of the
human bronchial tree. This lecture will introduce a diffusion-limited
growth model which predicts the shapes of such fractal biological
systems.
Contact: Frank Caserta, Jr., PhD., Physiology Department R410, 80
East Concord Street, BU Medical Center, Boston, MA 02118, 638-
4348.

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Hrand Saxenian '47
Thursday, January 20, 2:30 - 4:30 PM, in Room 10-105

This will be a seminar on personal and group creativity, both in
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Contact: Hrand Saxenian, (508) 369-9292

Cold Fusion: Anomalous Heat and Developments Continue
Mitchell R. Swartz '70
Saturday, January 22, 1994, 8:30 AM - 5:00 PM, Room 6-120

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from D20 and palladium. Newer related technologies have
developed. The history, material science and engineering of this
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JI Chang '96 recovers the ball during the junior varsity men's basketball game against the Coast Guard Academy. THOMAS R. KARLO—THE TECH

MIT Relay Teams Show Strong Start

Relay, from Page 16

started off slowly, allowing his opponent to gain a lead of a few body lengths. On the second leg, Edgar Ngwenya '97, seemed to close the gap, but lost some time while passing the baton on to Patron.

When the Bates runner seemed to be in control of the race, Patron found a miraculous burst of speed, and passed him on the backstretch of his second, and last lap. Patron sped onwards, allowing the anchor, Dan Corcoran '94 to cruise along his leg, and finish with a comfortable margin of victory. The winning time was 3:36.07, five seconds ahead of the Bates team.

In terms of excitement, the best seemed to be saved for last, in the 3,200-meter relay. For this race, MIT went up against Bates and Westfield State with two teams. The first consisted of Duran, Rob Casadonte '94, Seto, and Hardy. Darley, Dan Helgeson '97, Pratt, and Crain made up the second team.

The first MIT team started out in second place, but took the lead early in the second leg. The second MIT team, which seemed to start out far behind, surprisingly caught up, putting MIT's teams in first and second at the hand-off between the second and third legs.

Neither team could hold its lead, though, as Westfield State

came to the front during the third leg. Close to the final hand-off, while the first MIT team started falling behind, the second team started to pick up steam. Matters were left to Crain, the Engineers' top miler. With a separation of 50 meters, Crain ran a steady pace, slowly closing the gap. The strategy worked, as Crain passed his tiring adversary on the homestretch of the final lap winning with a time of 8:24.96 minutes, with a margin of victory of 0.90 seconds. Hardy brought a third place finish for MIT's first team.

The Beaver Relays served as a warmup for the more important events later in the season, according to coach Halston Taylor. He was pleased with the outcome. "There was a very competitive spirit, and a lot of team spirit," he said.

The team spirit was obvious during the final events. However, Taylor also added that while the performances were good, they will have to be better later in the season. Taylor and his team look to be competitive in NCAA Division III New England regional competition, and in the Quad Cup.

The next event for the men's track team will be Saturday, when it travels to Bates College for a dual meet. The next home meet will be on Jan. 22 with Bowdoin College, Colby College, Westfield State, and Worcester State.

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**MIT ENTERPRISE
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SPORTS

Men's track team shows all-around strength

By Dan Wang
STAFF REPORTER

The men's track team enjoyed quite a bit of success at the Beaver Relays, the team's first event of the year. Although team points were not tabulated, many of the team members captured individual victories at the Jan. 9 races against athletes from Bates College, Fitchburg State College, Stonehill College, and Westfield State College.

MIT runners had considerable success in the track events, winning all but two. In the opening race, the 3,000-meter run, Craig Sarney of Bates smashed his best time of the season, winning with a scorching time of 8 minutes, 54.44 seconds. MIT's Arnold Seto '96 spent the early part of the race in the front, helping set the blistering pace with Sarney.

Seto could not keep up with Sarney, who pulled away with five laps to go. Seto was passed by teammate Jesse Darley '95, who crossed the line in second place, ten seconds behind the winner. Seto ended up in third, followed by Carlos Duran '94.

The mile run seemed like a replay of the 3,000. Ethan Crain '95 started out well, but Pat Sullivan of Bates stayed with him until the final sprint. Sullivan proved to be stronger in the sprint, and placed a

comfortable distance between himself and Crain at the finish line. Crain, who has run a sub-four minute mile this season, posted a 4:28.50 second-place result. Jerry Pratt '94 finished third, with a time of 4:40.90. In this race, MIT runners took five of the top seven places.

Photo finish in hurdles

The next event, the 55-meter high hurdles, was a photo finish. The top three finishers, Matt Robinson '94, Edward J. Cho '93, and Colin Page '95, each received a time of 8.31 seconds. The photograph showed Robinson crossing the line first. Paul Ogagan completed an MIT sweep of the top four, coming in at 8.32 seconds.

The sprint events, the 55-meter dash, 200-meter dash, and 400-meter dash, had some many entrants that they were run in heats. In the 55-meter dash, qualifying for the final heat was based on either a top finish or time in preliminary rounds. Placings were based on heat times for the other two races.

In the 55-meter dash, Matt Sandholm '96 won, finishing in 6.64 seconds, with a fairly comfortable margin of victory. Sandholm completed a double by winning the 200-meter dash. In the 400-meter dash, Marcelo Targino '96 ran his best time of

the season, edging out Dan Corcoran '94.

Ed Patron '95 caused some excitement in the 800-meter run when he decided to attack at the beginning of the final lap. Patron's speed seemed to fade on the home stretch, but he had already established enough of a lead to edge a competitor from Bates at the finish line. Patron's time of 2:03.15 was only 0.12 seconds better than his pursuer. Kimathi Hardy '97 headed the pack, finishing third, with a time of 2:05.63.

Strong in field events

In the six field events, the Engineers were able to attain at least a second-place finish in every one. In the 35-pound weight throw, John Wallberg '96, the only MIT representative to make the final round, finished second, with a throw of 48 feet, two and a half inches. However, he was no match for Joe Welch, of Bates College, who won with a 54 foot seven-and-a-quarter inch toss. Coming into the Beaver Relays, Welch was heavily favored to win, based on results earlier this season.

The shot put ended in the same finishing order, with Welch and Wallberg finishing 1-2 again. This time, Welch put forth a heave of 41

feet two-and-a-half inches, almost four feet behind the winning throw. Antonio Morales-Pena '97 added a fifth place finish.

The Engineers fared much better in the other field events. First, they dominated the high jump and pole vault. MIT captured the top four places in the pole vault, led by Robinson, who cleared a height of 14 feet. Robinson owns the MIT indoor track record for the event, with a 16 foot, 3 three-and-a-half inch jump last year.

In the high jump, MIT's winning effort was led by Andy Ugarov '95 and James Kirtley '94, who finished 1-2, clearing heights of 6 feet, 3 inches and 6 feet, 1 inch, respectively. Hung Hoang '96 finished third with a jump of 5 feet, 11 inches.

Hoang, though, won the long jump held later in the day. His 20-foot, 6 and three-quarter-inch leap for victory was only one-and-a-half inches better than the second place finish. The next highest MIT placing was fifth, by Elliot Hui '95, who jumped exactly 20 feet.

In the triple jump, the final field event of the meet, Jason Desmaris of Fitchburg State captured first place. Morio Alexander '95 was the top MIT finisher, placing second with a jump of 41 feet, 6 and-a-half inches, losing by a little less than

four inches. Hui, Ugarov, and Hoang showed their versatility in field events by finishing third through fifth.

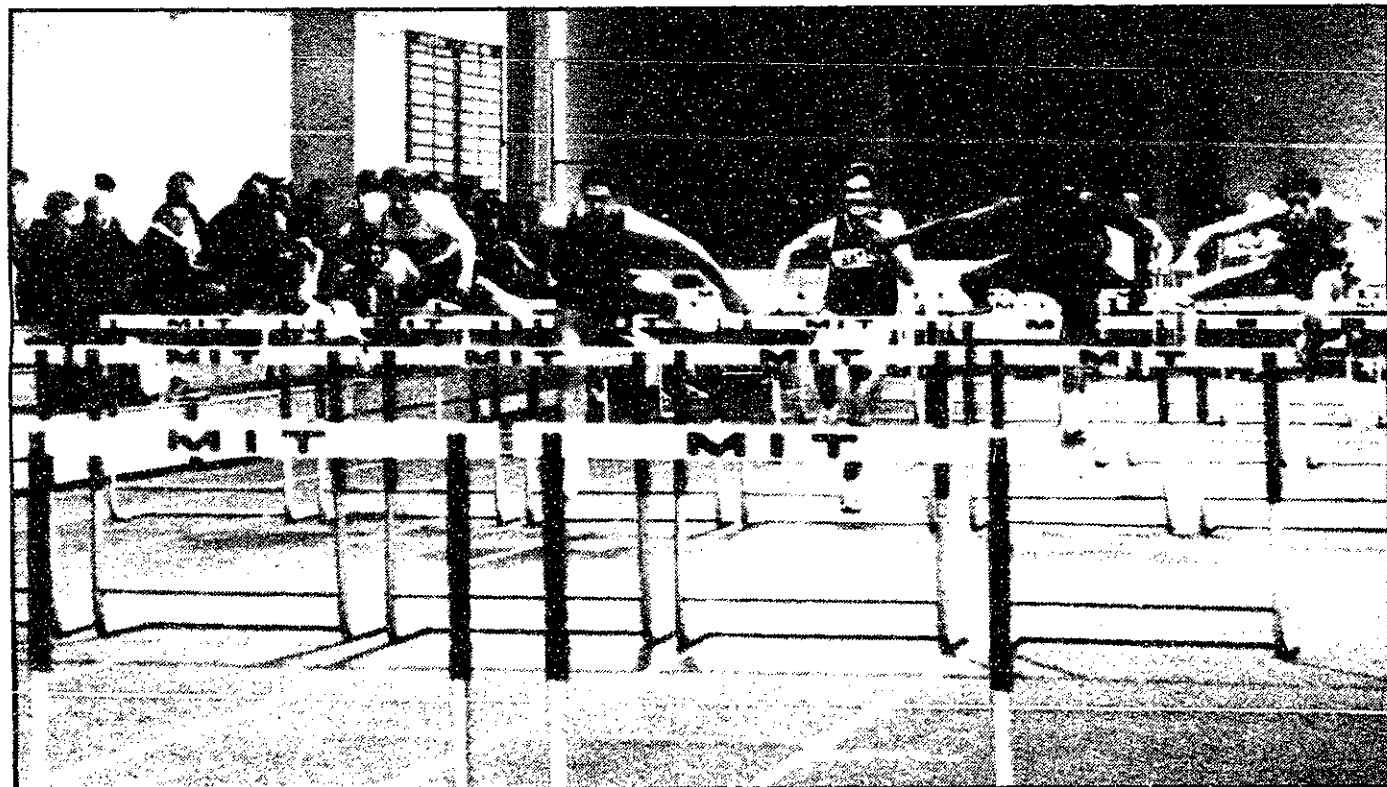
Feldman wins 5,000 meter

The events at the end seemed to be the most exciting, with the help of a large cheering section of Engineers who had already completed their own events. The last individual track event, the 5,000-meter run, had only three competitors, but still generated much team support and excitement. Josh Feldman '97, the top MIT runner in the event, started out strongly, taking a lead which he would keep for the duration of the race.

Feldman's teammate, Sateyn Shah G traded second place with Casey Connolly of Westfield State for most of the race. However, Shah seemed to tire late in the race, and dropped back with about seven laps to go. Feldman posted a time of 16 minutes, 42.1 seconds, winning by a little more than 50 seconds.

Both of the relays featured impressive come-from-behind victories for the Engineers. The next event, the 1,600-meter relay, consisted of only two teams, pitting MIT against Bates. MIT's Kirtley

Relay, Page 14



The Beaver Relays were held Sunday in Johnson Athletic Center. MIT athletes won 11 in of 16 events in the men's track team's first competition of the season.

Women's Hoops Goes 1-1

By Michelle Green

TEAM MEMBER

The women's basketball team travelled to the Coca Cola Classic hosted by Catholic University of America in Washington DC last weekend. The Engineer's beat St. Elizabeth College in the consolation final, after losing their opening game to Catholic University.

In the Engineer's first game, they lost to host Catholic after a valiant battle. Catholic hit key free throws at the end of the game to pull ahead of MIT with a final score of 72-66.

In the consolation game against St. Elizabeth, the MIT team showed its strength with an 88-52 victory. Both C. J. Doane '95 and Kristin Ratliff '95 were named to the all tournament team. Doane scored 29 points in the Saint Elizabeth game, while pulling down nine rebounds.

Ratliff showed her strength with two consistent games, especially on the boards. She pulled down 18 against Catholic and 17 against St. Elizabeth. The team plays its next game tomorrow at Rockwell Cage against Brandeis University.

Men's Basketball Downed by Coast Guard

By Dan Wang
STAFF REPORTER

The men's basketball team dropped a 70-63 decision to the United States Coast Guard Academy, last Saturday, before a crowd of 117 (really, check the book) at Rockwell Cage. The team's record for the season is now 3-6 overall, and 1-2 in the Constitution Athletic Conference.

The game had been fairly close for most of the game, despite play that coach Leo Osgood described as "sluggish." But MIT never had the lead, falling behind late in the first half, and was down 39-34 at halftime.

At the beginning of the second half, the Engineers deficit climbed to 11 points before MIT went on a scoring run, closing the gap to 51-50 at one point. The Engineers had numerous chances to score and take the lead, but were unable to put the ball through the hoop.

MIT and Coast Guard exchanged baskets, keeping the score fairly close. Late in the game, though, the Bears started penetrating the defense of the Engineers — despite the use of a full-court press and various zone defenses by the Engineers. The

results were some easy baskets, which allowed the Bears to increase its lead and gradually pull away. As the game closed, MIT's three-pointers wouldn't fall, and the Coast Guard players iced the victory by converting Engineer fouls to points.

For the second half, the Engineers had a better free throw percentage, with 56 percent to Coast Guard's 45 percent. But they missed important baskets down the stretch, which would have made the game closer. With less than five minutes left to play, and MIT down 57-62, guard Randy Hyun '95 was fouled on a three-point field goal attempt, giving him three chances from the charity stripe. Unfortunately, he missed the first two before making the last one. The Bears' lead which could have been cut to two, was now four, which turned out to be insurmountable.

The statistics seemed to tell a big part of the tale. The team made 17 field goals on 50 attempts, and shot 68 percent from the line. The Bears, meanwhile, made 48 percent of their shots from the field. The Bears made only six more shot attempts, but connected on

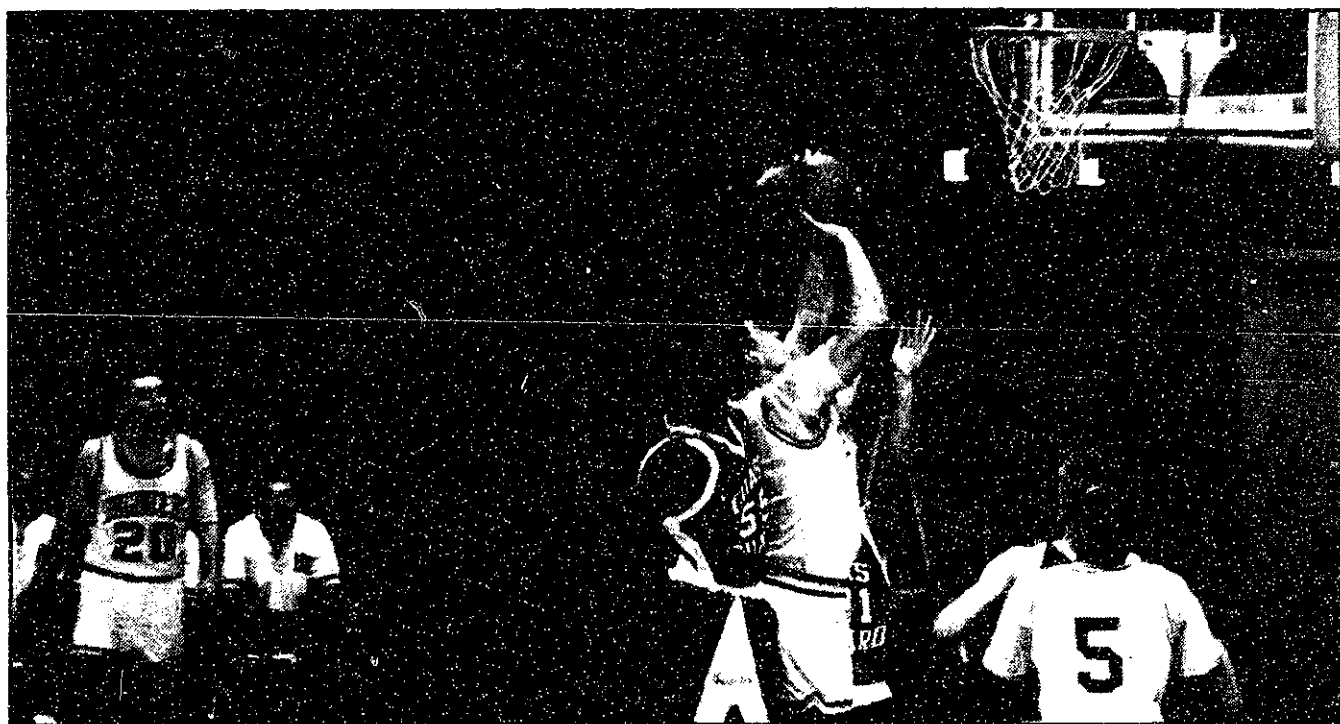
ten more of them than the Engineers.

Center Keith Whalen '96, who played almost the entire game near the basket, made only 4 of 13 shots from the field, while leading the team with 17 points. This figure, as well as the overall team

shooting, indicated numerous scoring opportunities that MIT was not able to take advantage of. Whalen and forward Joe Levesque '95 tied for the most rebounds, both grabbing seven boards. Forward Tim Porter '96 also scored in double figures, with 14 points, which

included four three-pointers.

The Engineers' next home game is Saturday afternoon, against Pratt Institute. The Engineers will play its next conference game on Jan. 19 versus Western New England College, also at Rockwell Cage.



Keith Whalen '96 attempts a shot against the unrelenting Coast Guard defense during the men's basketball game Saturday. MIT lost 63-70.