

JOSH HARTMANN—THE TECH
Valerie P. Tan '94 takes a swipe on her way to victory against a Middlebury College opponent Saturday.

Three Robberies Reported

No One Harmed in Three Armed Robberies on Saturday Night

By Jeremy Hylton
EDITOR IN CHIEF

Three people were robbed at gunpoint in separate incidents on campus Saturday night, according to Campus Police. No arrests have been made, but the police released descriptions of three suspects.

The robberies were the first reported to the Campus Police this year.

At 9:30 p.m. on Saturday, a visitor to MIT was accosted on Vassar Street next to Building 20, according to the Campus Police. The suspect walked up behind the victim and demanded money from him. The suspect revealed a small hand gun.

The victim said he had no money, and the suspect fled on foot toward Kendall Square. He is described as a black male, 5 feet 10 inches tall, slim build, wearing dark

clothing and a ski mask.

The victim was unharmed.

The other robberies occurred within five minutes of each other at about 2:30 a.m. on Sunday morning. The same two suspects committed both crimes, the police said.

The first robbery took place between the Green Building and East Campus. Two assailants on bicycles approached the victim. One of the suspects demanded money from the victim and showed a small hand gun, according to the Campus Police.

The victim threw his wallet on the ground, the thieves removed \$5, and they rode away on their bicycles.

The Campus Police believe that the same two suspects accosted a third victim on Amherst Alley near Burton House about five minutes later. The pair demanded the victim

open his wallet and through his money on the ground, the police said. One of the assailants also brandished a hand gun.

The victim threw \$11 on the ground and was not hurt. The suspects took the money and rode towards Massachusetts Avenue on their bicycles.

One of the suspects was described as a black male, 5 feet 10 inches tall, thin build, wearing a black, hooded sweatshirt and carrying a small, black hand gun. The other suspect is a black male, 5 feet 8 inches tall, wearing a white or light colored, hooded sweatshirt. Both suspects were riding BMX bicycles and were described as about 16 years old.

The Campus Police contacted Cambridge police, but have not

Robberies, Page 11

Donovan Trial Begins

By Jeremy Hylton
EDITOR IN CHIEF

Jury selection will continue today in the trial of Joseph D. Donovan. Donovan is charged with murder and two counts of armed robbery in connection with the fatal stabbing of Yngve K. Raustein '94 on Sept. 18, 1992.

Jury selection will probably conclude today and the actual trial will begin, according to Jill Reilly, spokeswoman for the Middlesex District Attorney.

The trial will probably last at least a week, but how long is hard to say, Reilly said.

Donovan, Shon McHugh, and Alfredo Velez con-

fronted Raustein and Arne Fredheim G on Memorial Drive near Hayden Library on Sept. 18, 1992. The district attorney's office alleges that Donovan punched Raustein in the face and then robbed him. Velez robbed Fredheim and when Raustein started to get up, McHugh stabbed him.

McHugh was convicted of first degree murder in juvenile court on Oct. 7 and sentenced to 20 years in prison.

Donovan, who was 17 at the time of the murder, and Velez, who was 18, are being tried as adults in

Trial, Page 16

New Bio Building Is On Schedule, Budget

By Ramy Arnaout
STAFF REPORTER

Construction of the new biology building is going well, according to John D. Macomber, president of George B. H. Macomber Co., the company constructing the new building.

"MIT assembled a good team of owner representatives, architects, and contractors," Macomber said. The \$70 million building is currently under budget and on schedule, he said.

In addition, Ames Street is expected to reopen on schedule by Dec. 1, after the completion of the underground tunnel connecting the new building and Building E19, according to Francis A. Lawton, special assistant to the senior vice president and project manager for the new building at MIT.

Construction crews have finished laying down sewer lines, fiber-optic cable, gas lines, and water lines, Lawton said. They have also poured the first casing of concrete for the wall of the tunnel, he added.

The Ames Street tunnel is one of

two tunnels connecting the biology building to existing buildings; the other tunnel will connect to Building 66.

Research biologists from Buildings 16, 18, 56, E17, E25, and the Center for Cancer Research are scheduled to move into the new building by April 1994, according to Lawton.

Site work for the project began in summer of 1991, and construction began later that fall.

The biology building is "an advanced, state-of-the-art facility,

Construction, Page 11

Minorities Join Faculty Slowly

By Rishi Shrivastava
STAFF REPORTER

In September 1991, Provost Mark S. Wrighton announced an Institute initiative to increase the number of underrepresented minority faculty at MIT. Since this declaration, five minority professors were hired in fiscal year 1993, and four were hired in fiscal year 1992.

The initiative continues this year, but no hires have been made in the recently begun fiscal year.

Although the program has increased underrepresented minority

recruitment, Wrighton said that it has not been as successful as he would have liked. Still, he added that the program has helped expose the problem of minority representation and also has increased networking efforts to better target potential minority candidates. Wrighton added, faculty recruiters "are extending themselves in ways I find very appropriate."

Underrepresented minorities include African Americans, Mexican Americans, Puerto Ricans, and Native Americans.

The increase in underrepresented minority faculty came at a time

when the total number of professors hired dropped from 58 to 43. During this period, the number of recruited Asian Americans, who are not considered underrepresented minorities, dropped from 5 to 1.

The lack of minority faculty members, however, is seen at universities nationwide. This is mainly because few underrepresented minorities earn PhDs in a given year.

For example, only "one or two minority students graduate with PhDs in Aeronautics and Astronautics" in the United States annually,

said Head of the Department of Aeronautics and Astronautics Earl M. Murman in 1991.

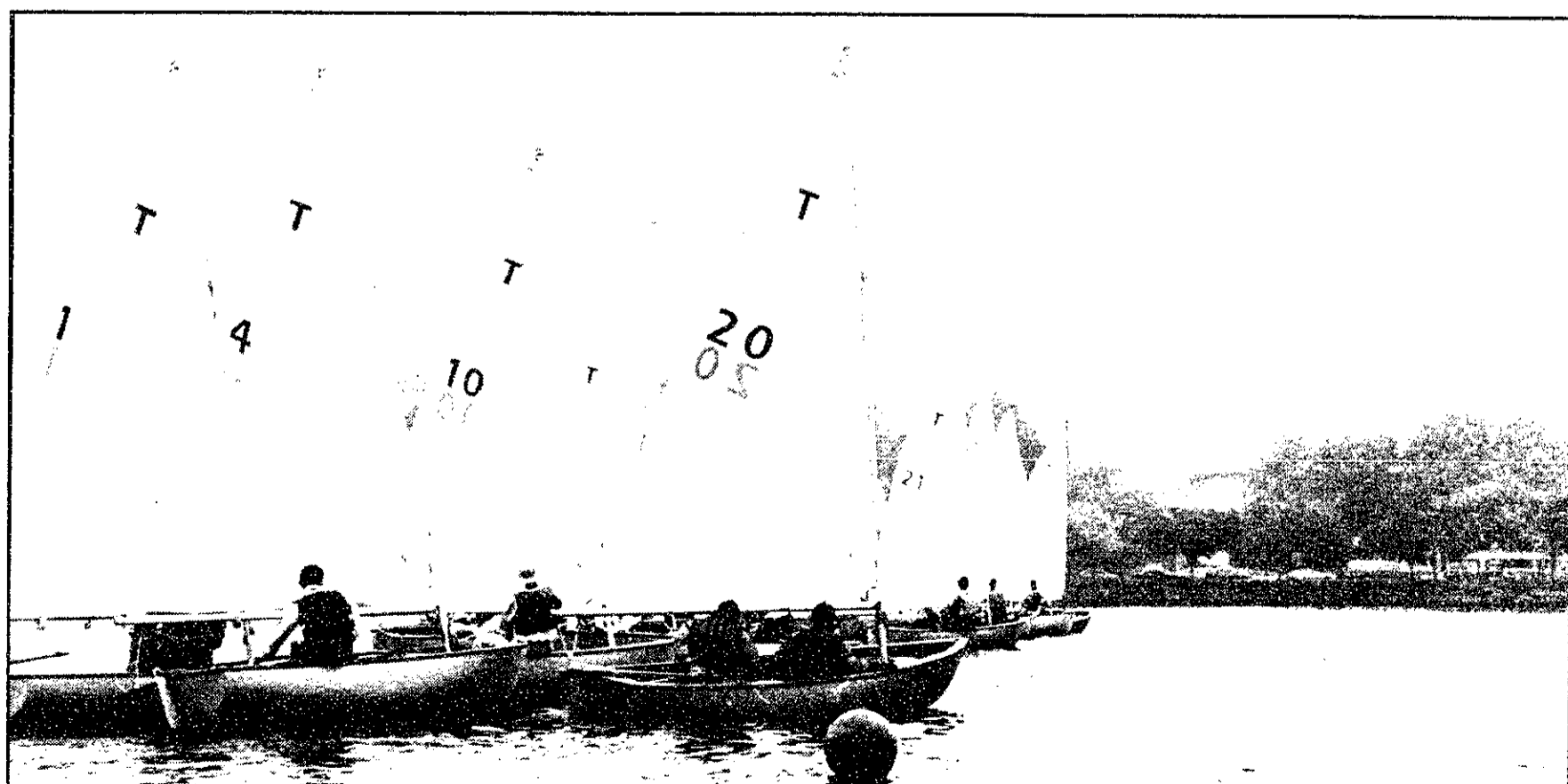
Also, few minorities with PhDs choose to work in academia. Instead, they often accept more lucrative industry jobs. Wrighton said that MIT needs to encourage PhDs to enter academic professions.

Wrighton attributed the drop in Asian hiring to inevitable yearly fluctuations in hiring practices, and he reinforced the need to increase

Minority, Page 13

Feature

A memorial service will be held in the MIT Chapel for Adam M. Krieger '95, who died this summer after a 4-year battle with bone cancer. The service will begin at 9 p.m. Friday night. Krieger lived at Delta Kappa Epsilon, and questions about the service should be directed to the fraternity at 494-8683.



THOMAS R. KARLO—THE TECH
Still winds made for a long Smith Trophy race Sunday morning, as the boats line up for the start. MIT tied with Brandeis University for third place.

WORLD & NATION

Ozone Hole over South Pole Deeper But Smaller This Year

THE WASHINGTON POST

WASHINGTON

The annual ozone hole over the South Pole opened deeper this year than has been measured before but over a smaller area, government scientists reported Monday.

At the center of the hole, which covered about half of the Antarctic land mass, the ozone concentration dropped to 44 percent of normal in late September and early October, according to measurements by NASA's Total Ozone Mapping Spectrometer, which is orbiting Earth aboard a Russian satellite. The actual ozone level, however, may have been lower. According to measurements on a balloon flown from the ground on Oct. 6 by the National Oceanic and Atmospheric Administration, the ozone level fell to 39 percent of normal.

The previous record low, 49 percent of normal, was measured in 1991.

"It sounds alarming, but you have to remember that the center, where the depletion is greatest, is a relatively small area," said Jay R. Herman, a NASA atmospheric scientist at the Goddard Space Flight Center in Greenbelt, Md. "The worst is over now and ozone levels are already increasing." As the intensity of sunlight increases, new ozone — which absorbs ultraviolet radiation — is manufactured.

The ozone hole was expected to be bad this year because of changes in atmospheric chemistry and global air circulation brought on by the eruption of Mt. Pinatubo in the Philippines in 1991. If those effects behave like the smaller effects of a previous eruption, they should diminish significantly before the next hole opens.

The hole was also expected to be worse because of a roughly two-year cycle in global wind patterns which this year would have favored low ozone levels in any case.

These smaller fluctuations modify a general trend toward increasing ozone destruction that is expected to reach its worst around the year 2000. Then, as a result of CFC cutbacks mandated by the Montreal Protocol, the ozone layer is expected to heal itself and become thicker.

Georgia Seeks Russian Military Aid

THE WASHINGTON POST

BATUMI, GEORGIA

Georgian leader Eduard Shevardnadze said his army was collapsing and appealed for Russian military help Monday after forces loyal to his main rival captured a vital railroad town Sunday.

Shevardnadze, who is now facing a full-scale civil war, issued the appeal to Russia a day after fighters of ousted president Zviad Gamsakhurdia captured Samtredia, a western Georgian town with a rail junction linking the country's Black Sea ports with the capital, Tbilisi. "Our army has virtually disintegrated," Shevardnadze told Georgian state radio.

"I pin definite hopes on Russia," said Shevardnadze, who earlier sent his prime minister to Moscow for talks. "We must decide how ... these two countries should counter what can be called an invasion of Georgia, an attack against its freedom and independence. The form, scope and strength of this will be decided today and tomorrow."

Diplomats have said they believe Shevardnadze is seeking heavy weaponry from Russia to halt Gamsakhurdia's advance.

Shevardnadze's decision to call on Russia is a sign of his deteriorating military position, and a further indication that his political future, and Georgia's, are in Moscow's hands.

Gamsakhurdia's forces, which control perhaps a third of the country, are still moving eastward and are now reported to be within 15 miles or so of Georgia's second-largest city, Kutaisi. If they capture it, they will cut Georgia virtually in half, sever the capital's supply lines and imperil Shevardnadze's hold on power.

In addition to the civil war, Shevardnadze is grappling with a tide of about 200,000 refugees who fled the westernmost Georgian region of Abkhazia last month after separatist rebels there, aided by forces from Russia, captured the provincial capital, Sukhumi.

Before Sukhumi was captured, Shevardnadze warned that its fall could lead quickly to the dismemberment of Georgia, a former Soviet republic about the size of West Virginia with a population of 5.4 million people. His prediction appears to be coming true.

In an interview last week, Shevardnadze said he was prepared to face Gamsakhurdia in an election. But Gamsakhurdia's position has been that he is already the legally elected president.

Gamsakhurdia, a Soviet-era dissident, became a nationalist hero by pressing for Georgian independence and became Georgia's first popularly elected president in May 1991. But within a few months he alienated many Georgians by arresting scores of journalists and opposition leaders, many of whom he labeled "spies." He displayed what Elizabeth Fuller, a specialist on Georgia at the Radio Free Europe/Radio Liberty Research Institute in Munich, called "blatant chauvinism and a messianic view of Georgia's world mission."

WEATHER

More clouds and rain midweek

By Michael Morgan
STAFF METEOROLOGIST

An anticyclone will settle over the area today. As the high begins moving offshore tonight and tomorrow, moisture will begin to return from the south.

Today: Mostly sunny and cooler. High near 60°F (16°C). Winds northwest 5 - 10 mph.

Tonight: Increasing clouds and cool. Low 43°F (6°C).

Wednesday: Cloudy and cool. Rain arriving from the southwest. High 56°F (13°C). Low 49°F (9°C).

Thursday: Rainy and cool. High 58°F (14°C).

President Scolds Congress for Interfering with Somalia Policy

By Ruth Marcus
and Helen Dewar

THE WASHINGTON POST

WASHINGTON

President Clinton warned Congress Monday against interfering with his military decisions in Haiti or Bosnia and said he would not rule out the use of force in Haiti.

"I thought I ought to say clearly today that I would strenuously oppose such attempts to encroach on the president's foreign policy powers," Clinton said in an interview with radio reporters. "The president must make the ultimate decision" about committing U.S. troops, he said.

With United Nations sanctions against Haiti set to take effect at midnight, Clinton said it would be "an error" for him to rule out military options there. He cited the presence of 1,000 U.S. citizens, that Haiti "is very much in our backyard" and the threat of a new flood of refugees.

At the same time, Clinton noted that the Haitian government under Prime Minister Robert Malval "has not asked for that (U.S. military intervention) and does not want that."

Clinton's comments on presidential authority were prompted by a new round of congressional proposals to place restrictions on use of U.S. troops.

Senate Minority Leader Robert J. Dole, R-Kan., plans to offer an amendment that would require congressional authorization before troops could be sent to Haiti. The

proposal would include exceptions to the requirement for advance approval, including evacuating American citizens, assuring the safety of U.S. troops and maintaining national security if there is no time for a congressional vote.

Another amendment, proposed by Sen. Don Nickles, R-Okla., would require congressional authorization after March 1, 1994, for participation of U.S. forces under foreign command in U.N. peace-keeping operations. Dole also has a proposal to require congressional authorization before U.S. troops can be sent to Bosnia.

Secretary of State Warren Christopher Monday warned Serbian leaders that a two-month-old NATO threat to use air strikes remains in force.

In a letter to Dole and Senate Majority Leader George J. Mitchell, D-Maine, Clinton said he had "grave concern" about such restrictions.

"I am fundamentally opposed to amendments which improperly limit my ability to perform my constitutional duties as commander in chief, which may have unconstitutional provisions and which, if adopted, could weaken the confidence of our allies in the United States," Clinton said.

He said imposing limits on his power as commander in chief "would provide encouragement to aggressors and repressive rulers around the world who seek to operate without fear of reprisal."

Last week, Clinton fought off a congressional proposal to require

U.S. forces to be out of Somalia before the date he had set, March 31. But the spate of amendments reflects the degree of congressional uneasiness and dissatisfaction with the administration's handling of foreign policy.

Dole told a news conference that Clinton expressed concern to him in a telephone conversation earlier in the day about the proposed restrictions and was sending administration representatives to Capitol Hill to "see if there is some common ground."

Clinton's Senate allies also were considering possible alternatives to the Dole and Nickles proposals, which were expected to be voted on as early as Tuesday.

While some fine-tuning of the proposals was possible, Dole said, there is "pretty broad bipartisan support" for his proposal on Haiti and Nickles's to restrict assignment of U.S. forces under foreign command. "I think I have the votes," he said.

Dole, who helped rescue Clinton from defeat on his Somalia policy last week, denied that he was trying to "micro-manage" foreign policy, return the country to isolationism or embarrass the president in demanding a congressional vote before U.S. forces are committed to Haiti.

Dole contended that Congress set precedents during Republican administrations in tying strings to administration policy in Central America and elsewhere and said he was sympathetic to the resistance of all presidents to congressional encroachments: "If I were the executive, I would oppose it."

Most Trial Verdicts Released In Reginald Denny Case

LOS ANGELES TIMES

LOS ANGELES

On Monday, most of the verdicts in the trial of Damian Monroe Williams and Henry Keith Watson were released.

Some convictions were for lesser crimes that are automatically included in the primary charge. For instance, the primary charge of assault with a deadly weapon carries a misdemeanor charge of assault. Also, in some cases a lesser, related charge underlies the primary charge.

Damian Monroe Williams

Williams was charged with 10 counts involving Reginald O. Denny and six other alleged victims. The verdicts on those counts:

VICTIM: Reginald O. Denny
Primary charge: Willful, deliberate and premeditated attempted murder

Verdict: Still deliberating.
Punishment: Life in prison
Primary charge: Aggravated mayhem

Verdict: Not guilty of aggravated mayhem; guilty on lesser charge of simple mayhem.

Punishment: 2 to 8 years for simple mayhem. (Could have been life in prison for aggravated mayhem.)

Primary Charge: Robbery
Verdict: Not guilty

Punishment: Could have been 2 to 5 years (with possibility of an additional 3 years for intentional infliction of great bodily injury and 1 year for use of a deadly weapon).

VICTIM: Alicia Maldonado
Primary charge: Assault with deadly weapon

Verdict: Not guilty of assault with deadly weapon; guilty of lesser charge of misdemeanor assault.

Punishment: A maximum of 6 months and/or \$1,000 fine for misdemeanor assault. (Could have

received 2 to 4 years for assault with deadly weapon.)

VICTIM: Jorge Gonzalez
Primary Charge: Assault with deadly weapon

Verdict: Not guilty of assault with deadly weapon; guilty of lesser charge of misdemeanor assault.

Punishment: 6 months and/or \$1,000 fine for misdemeanor assault. (Could have received 2 to 4 years for assault with deadly weapon.)

VICTIM: Terrance Manning
Primary Charge: Assault with deadly weapon on a firefighter

Verdict: Not guilty
Punishment: Could have received 3 to 5 years

VICTIM: Fred Mathis
Primary charge: Assault with deadly weapon on a firefighter

Verdict: Not guilty
Punishment: Could have received 3 to 5 years

VICTIM: Fidel Lopez
Primary charge: Assault with deadly weapon

Verdict: Not guilty of assault with deadly weapon; guilty of lesser charge of misdemeanor assault.

Punishment: 6 months and/or \$1,000 fine for misdemeanor assault. (Could have received 2 to 4 years for assault with deadly weapon.)

VICTIM: Takao Hirata
Primary charge: Assault with deadly weapon

Verdict: Not guilty of assault with deadly weapon; guilty of lesser charge of misdemeanor assault.

Punishment: A maximum of 6 months and/or \$1,000 fine for misdemeanor assault. (Could have received 2 to 4 years for assault with deadly weapon.)

Primary charge: Robbery

Verdict: Not guilty.
Punishment: Could have received 2 to 5 years

Henry Keith Watson

Watson was charged with five counts involving Denny and two other victims. The verdicts on those counts:

VICTIM: Reginald O. Denny
Primary charge: Willful, deliberate and premeditated attempted murder

Verdict: Not guilty of premeditated attempted murder; guilty of lesser, related charge of misdemeanor assault.

Punishment: A maximum of 6 months and/or \$1,000 fine for misdemeanor assault. (Could have received life in prison for premeditated attempted murder.)

Primary charge: Robbery
Verdict: Not guilty

Punishment: Could have received 2 to 5 years (with the possibility of 3 years for the intentional infliction of great bodily injury).

VICTIM: Larry Tarvin
Primary charge: Assault with deadly weapon

Verdict: Still deliberating.

Punishment: 2 to 4 years (with the possibility of 3 additional years for intentional infliction of great bodily injury).

Primary charge: Robbery
Verdict: Not guilty

Punishment: Could have received 2 to 5 years (with the possibility of 3 years for the intentional infliction of great bodily injury).

VICTIM: Alicia Maldonado
Primary charge: Assault with deadly weapon

Verdict: Not guilty.
Punishment: Could have received 2 to 4 years.

Breast Cancer Activists Deliver Petition, Concerns to Clintons

By Amy Goldstein
THE WASHINGTON POST

WASHINGTON

In the throng of breast cancer survivors and their supporters at the Ellipse here Monday, Fred Miccio stood alone, clutching a large photograph of a smiling woman with long brown hair.

The woman in the picture, Maria, his wife of 20 years, would have been 45 Monday. She died of breast cancer last month.

"I felt perhaps I could do something," said the Syracuse, N.Y., utility company dispatcher, who had gathered with others near the White House to ask President Clinton for more federal research funds to treat and eventually cure breast cancer. "Somebody has to speak out."

Miccio, a novice at activism, as were many at Monday's rally, was in the nation's capital to add his voice to the growing political clout of a movement dedicated to pre-

venting, treating and curing a disease that now affects one woman in nine. Women and their families, who once hid their struggle with breast cancer, offered the most tangible proof to date that they have become an effective lobbying bloc.

Two years ago, when a small delegation of breast cancer activists tried to give President Bush 140,000 signatures seeking more research funds, they never knew whether their petition got beyond the White House security gate.

But Monday, leaders of the National Breast Cancer Coalition, a grass-roots group that didn't exist three years ago, had a personal audience with President Clinton and first lady Hillary Rodham Clinton and gave them petitions containing 2.6 million signatures.

As the spread of the disease accelerates, such political activity has grown. Far more prevalent than the AIDS epidemic, from which the

new activists are borrowing many of their strategies, breast cancer causes 46,000 deaths in the U.S. each year, and 182,000 new cases annually.

During the meeting in the White House East Room, President Clinton said that Donna E. Shalala, secretary of health and human services, would convene a meeting in December to begin drafting a "national action plan" for preventing, diagnosing, and treating breast cancer. He also signed a proclamation making Tuesday National Mammography Day, encouraging the breast X-rays that often help detect the cancer early.

In response to lobbying pressure, federal subsidies for breast cancer research have increased from \$90 million last year to about \$400 million today.

According to Visco, the National Institutes of Health has asked for \$449 million for breast cancer research next year, but the coalition is seeking \$659 million.

U.S. Warns Serbia That NATO Will Fight to Protect Sarajevo

By Daniel Williams
and Barton Gellman
THE WASHINGTON POST

WASHINGTON

After a weekend round of severe artillery attacks on Sarajevo, Secretary of State Warren Christopher warned Serbian leaders Monday that a two-month old NATO threat to protect the city remains in force.

Christopher's unilateral warning came after 10 days of unsuccessful U.S. efforts to persuade the European allies to issue a similar warning on behalf of the NATO alliance. Alliance sources disclosed Monday that Robert E. Hunter, the U.S. ambassador to NATO, on Oct. 8 began urging that NATO reaffirm last summer's threat to bomb Serb positions in Bosnia-Herzegovina if the strangulation of Sarajevo persisted.

The Clinton administration fears that last weekend's bombardment of Sarajevo — the first substantial Serb attack since August — together with a new upsurge in interference with U.N. relief convoys, may mark the start of what one official called a Serb attempt "to seal off the whole central Bosnian area." A second official said the Christopher warning was meant to "nip in the bud" any Serb offensive.

Washington also is concerned that the Serbs are testing Washington's resolve in the wake of a domestic uproar over botched interventions in Somalia and Haiti, a senior State Department official said.

Christopher cabled his warning to Slobodan Milosevic, the president of Serbia, which is the chief arms supplier for the breakaway Bosnian

Serbs. He reminded Milosevic that NATO bombing plans, approved last August, continue in place, a State Department official said.

The shelling, coupled with obstruction of relief convoys "may indicate a new attitude ... that would have very grave consequences," department spokesman Michael McCurry said.

In August, a reluctant NATO, under heavy prodding by the United States, endorsed a plan to use air strikes to knock out Serb artillery if the Serbs renewed their siege of Sarajevo and other Muslim towns. Defense Secretary Les Aspin PhD '66 will meet later this week with his counterparts in Brussels, an administration official said, and that meeting will offer "a better test of NATO's political will."

Exiled Somali Intellectuals Hold Controversial Meeting

LOS ANGELES TIMES

NAIROBI, KENYA

The "Somali Intellectuals Forum," the group of wise men and women that the United Nation publicly has said holds a key to Somalia's future, convened its first public meeting here Monday on the crisis tearing apart what is left of their homeland next door.

Perhaps predictably, less than 30 intellectuals showed up, dwarfed together in a cavernous Nairobi hotel ballroom that seats hundreds. They listened patiently through the morning to the hollow echo of speeches largely rehashing how their once-proud nation self-destructed in a descending spiral of clan wars, famine and desolation, which ultimately drove out this educated backbone of their society.

Then, the afternoon session exploded in fiery debate. Suddenly it was clear that this little gathering was, in fact, a living symbol of both the forces that destroyed Somalia from within and those that continue to block its recovery.

It was not until noon that Nairobi-based intellectuals loyal to warlord and U.N. nemesis Mohamed Farrah Aidid learned, through a Somali grapevine in this nation that hosts 300,000 Somali exiles and refugees, that they had been excluded from the forum. Their instant conclusion: The U.N. deliberately conspired to keep them out.

"We are intellectuals. We want to participate if there is some good attempt underway to solve the Somali problem. But nobody invited us here," declared Ahmed Mukhtar Aden, a spokesman for Aidid's Somali National Alliance. He and a dozen other supporters gate-crashed the conference, which was endorsed by the U.N., and which the Aidid loyalists said represented only clans and tribes opposed to Aidid.

Aspin Plans First Comprehensive Revision of Nuclear Doctrine

THE WASHINGTON POST

WASHINGTON

Secretary of Defense Les Aspin PhD '66 has authorized the first comprehensive review of the country's doctrine on nuclear weaponry since the end of the Cold War, according to a senior defense official.

The review is meant to take a fresh look at the number, type and targets of all such arms remaining in the U.S. arsenal, with the aim of producing "a new national policy" that will be submitted to President Clinton for his approval, the official said.

The review will be the first to address what several officials called an anomaly of existing U.S. nuclear weapons policy: Although the size of the U.S. arsenal has shrunk by thousands of weapons since the mid-1980s and will drop much further under arms treaties signed under President Bush, the official "presidential guidance" governing their targeting and employment in any war has not been updated since 1981.

As a result, all U.S. nuclear weapons planning and operations are formally governed by National Security Decision Directive 13, signed by President Ronald Reagan at a time when Moscow had troops in Afghanistan and Berlin was a divided city.

The purpose of the review, which is to be conducted jointly by civilian experts at the Defense Department and military officers assigned to the Joint Staff, is to design the long-term structure of the U.S. nuclear arsenal, including how many weapons will be based on submarines, bombers or intercontinental-range ballistic missiles.

To be placed on a mailing list to receive email about upcoming GSC meetings and events, send email to gsc-request@mit.edu.

GSC General Meeting this Wednesday, October 20 at 17:30 in the GSC office, 50-222. Free pizza!

Graduate Student Council

- ☞ Are you tired of flickering fluorescent lights?
- ☞ Have you been staring at a glowing CRT too long?
- ☞ Do you look out the window and sigh a lot?

If the answer to any of these questions is "yes," then you need to get away from the lab and enjoy the fresh air and beautiful views of New Hampshire! The GSC is organizing a trip to Franconia Notch, on **Saturday, October 23rd** for only **\$5** (or \$10 for guests and post-docs). We'll provide transportation, leaving MIT at 8:30 AM and returning around 8 or 9 in the evening; you need to bring warm clothes, hiking boots, water, and lunch. There will be two trails, one more demanding than the other, so you can have a good time whether you want a stroll in the country or a hike in the hills. Sign up at the GSC Lounge, room 50-222, 2nd Floor Walker Memorial. Call x3-2195 or send email to sjreiss@mit if you have any questions.

OPINION



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Letters To The Editor

Shultz Confused United Nations, NATO

In Gabriel Riopel's article ["Shultz Discusses Foreign Policy," Oct. 15] he reports Shultz as talking about "Russia's refusal to allow Poland from joining the United Nations." Shultz knows better than that. Poland was always a member of the United Nations, and there are no plans to change this. In fact, Russia exerted pressure on Poland not to join NATO. Please clarify the difference before you meet a Pole.

Uli Knirsch G



Super Collider Project Must Continue

By Daniel Stevenson
COLUMNIST

On Jan. 30, 1987, the Reagan White House approved funding for the superconducting super collider, setting in motion one of the most ambitious scientific projects of the century and prompting a far-reaching debate about funding for pure research and "big science" projects. With the proposed 20 trillion volt accelerator, high energy physicists will have an incredibly powerful new tool to make monumental discoveries about the fundamental make-up of matter.

At the same time, however, we are in a tremendous government financial crunch, with hundreds of worthwhile social, economic, and scientific programs vying for pieces of an ever-shrinking funding base. Many lawmakers raise important questions about the validity of a large expenditure for science during times of economic hardship. During a House debate last June about funding for the SSC, Rep. Marge Roukema (R-NJ) accused the government of building "an \$11 billion toy for a select number of high-energy physicists," and Rep. Jack Reed (D-RI) emphasized that "we have a budget deficit and sluggish economy, and we simply cannot afford these projects."

The truth is, however, that we simply cannot afford to pass up this incredible scientific opportunity. Despite a huge budget deficit, despite pressing domestic concerns, and despite opposition from many scientists and legislators of both political parties, we must make the tough decision to continue the superconducting super collider. America has long been a world leader in science, especially in high energy physics, and it would be a great

folly to abandon this lead by scrapping the SSC.

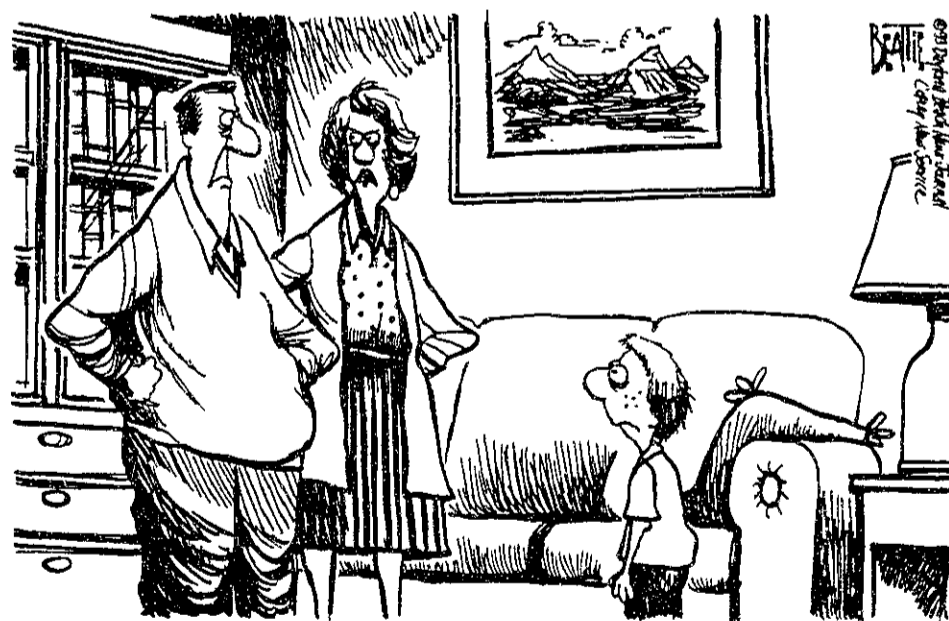
The scientific benefits of the SSC are immeasurable. At least one discovery that is guaranteed by experiments at such high energies is the mechanism for electroweak symmetry breaking, a discovery that would shed new light on physicists' "standard model" of elementary particles. Often, however, the most important discoveries of particle accelerators are quite unexpected. The Bevatron accelerator, built in the 1950s, was mainly motivated by the search for antiprotons, which it found, along with a wide variety of unexpected new strongly interacting particles. In a similar vein, experiments at the SSC are expected to discover, along with electroweak symmetry breaking, important facts about the missing dark matter in the Universe, new particles within the subatomic quarks, and countless other significant observations.

Despite these scientific benefits, several scientists, including Nobel laureates, argue that it is the continuation rather than the termination of the SSC that will most likely doom science in the United States. They maintain that such large spending in one subfield limits research in other equally worthy areas. Though the \$11 billion price tag is high, it does not represent a serious neglect of funding for other sciences. For example, the National Institutes of Health alone receives more than \$10 billion annually. It is also unusual for deficit reduction in science to be targeted at the SSC, rather than more expensive and less scientifically and strategically useful projects such as the space station and the Sea Wolf submarine, whose only saving

grace appears to be heavy commercial and political interest.

Opponents to the collider also stress the fact that large pure science projects can have no real economic benefits. To the contrary, the SSC has already resulted in the transfer of important technologies to industry in areas such as magnetic levitation transportation, medical imaging systems, and superconducting magnetic energy storage, along with countless other applications as widespread as information storage, proton therapy, and image processing. Money spent on the collider actually produces as many jobs as money spent in other areas. Along with the construction jobs required to build the facility, experiments would provide research opportunities for the next generation of high energy physicists, keeping this group of highly gifted and historically productive scientists in the United States.

Although the proposed new accelerator represents a huge expense by a debt-laden government, although it has few obvious short-term benefits, and although it is opposed by strong group of legislators and scientists, the superconducting super collider cannot be compromised. It will bring new technology into industry, it will create and keep science jobs, and it will maintain the United States at the forefront of high energy physics research. However, as Nobel laureate Steven Weinberg says in his book *Dreams of a Final Theory*, the real reason for the continuation of the SSC project is "a sense that without it we may not be able to continue with the great intellectual adventure of discovering the final laws of nature."



"Should we send him to bed without supper, or make him watch Chevy Chase's talk show?"

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THE ARTS

Songfest was crowded, muggy — and exuberant

SONGFEST

Cross Products, Muses,
Chorallaries, Logarhythms.
Room 10-250.
Oct. 16.

By Scott Deskin

Outside, the night was cool and mild, but within the walls of 10-250 it was humid. Throngs of MIT parents and students filled the room to capacity; the reviewer of this performance had to secure a seat atop the rear auditorium railing to avoid being choked out completely. The starting time was advertised as 7 p.m., but in fact was closer to eight o'clock.

The performance was worth the wait. The four a cappella groups that performed engaged the audience with their tried-and-true formula of songs, anecdotes, and screwball humor.

First up were the Cross Products, and they gave a spiritually heartfelt offering of songs. "The Reason We Sing" was their opener, and provided an enlightened message for the remainder of their act. A short interlude into Christian history provided the basis of "Daughter of Zion," a piece written in four-part harmony that was a perfect example of a cappella performance.

Next were the Muses, MIT's all-female singing group. They opened in a jubilant chorus of "Gimme the beat boys, free my soul, I want to get lost in your rock and roll," and stirred up the audience a bit. Further excursions into soul and R&B, like "In the Midnight Hour," may not have brought anything new to Wilson Pickett's version, but evoked nostalgic pleasure nonetheless. And if the Muses didn't cover Fleetwood Mac's "The Chain" with seamless assurance, their humorous rendition of "Happy Together," using props as visual aids to the lyrics, revived the buoyant approach in their singing.

Then the Chorallaries took over. Their



YUEH Z. LEE—THE TECH

The Cross Products performed in 10-250 for the Family Weekend Songfest.

strange choral chants in the opening song showed the cohesiveness of their "wall of sound." Their skits were primarily vehicles for inventiveness, and some even were integrated into the songs (like the laundry-room romance, "Why Don't We Both Share a Load"). Of course, the Chorallaries performed their signature piece, "We Are the Engineers"; but, it was on songs like "Me and Julio Down by the Schoolyard" and the encore, "Africa," that they really came together as an ensemble and showed the audience the key to the synth-pop meshing of their harmonies.

The last group, the Logarhythms, seemed to have a tough act to follow. They incorporated more of the Chorallaries' example of vocal drum beats and staccato notes, but on the second song, "From the First Hello," had a successful take at barbershop-like harmonizing. One of their skits, which detailed a freshman's attempt to open an account and make a deposit at the local bank (sperm bank, that is), brought the house down. They were less impressive in a medley of the Spin Doctors' three greatest hits, which seemed to be an unnecessary nod to contemporary pop and

rock. However, for their two encores, "Steamroller" and especially "Closer to Fine," the Logarhythms came back to a more acoustic-based batch of songs, which suited the group perfectly.

The four groups sang for a combined total of over two hours. The stuffiness inside the room, however, did not stifle the exuberance of the singers. The Songfest did not contain very many surprises, but it did provide a satisfying mix of songs which pleased the audience. In short, it did what every good performance should do; that is, entertain.

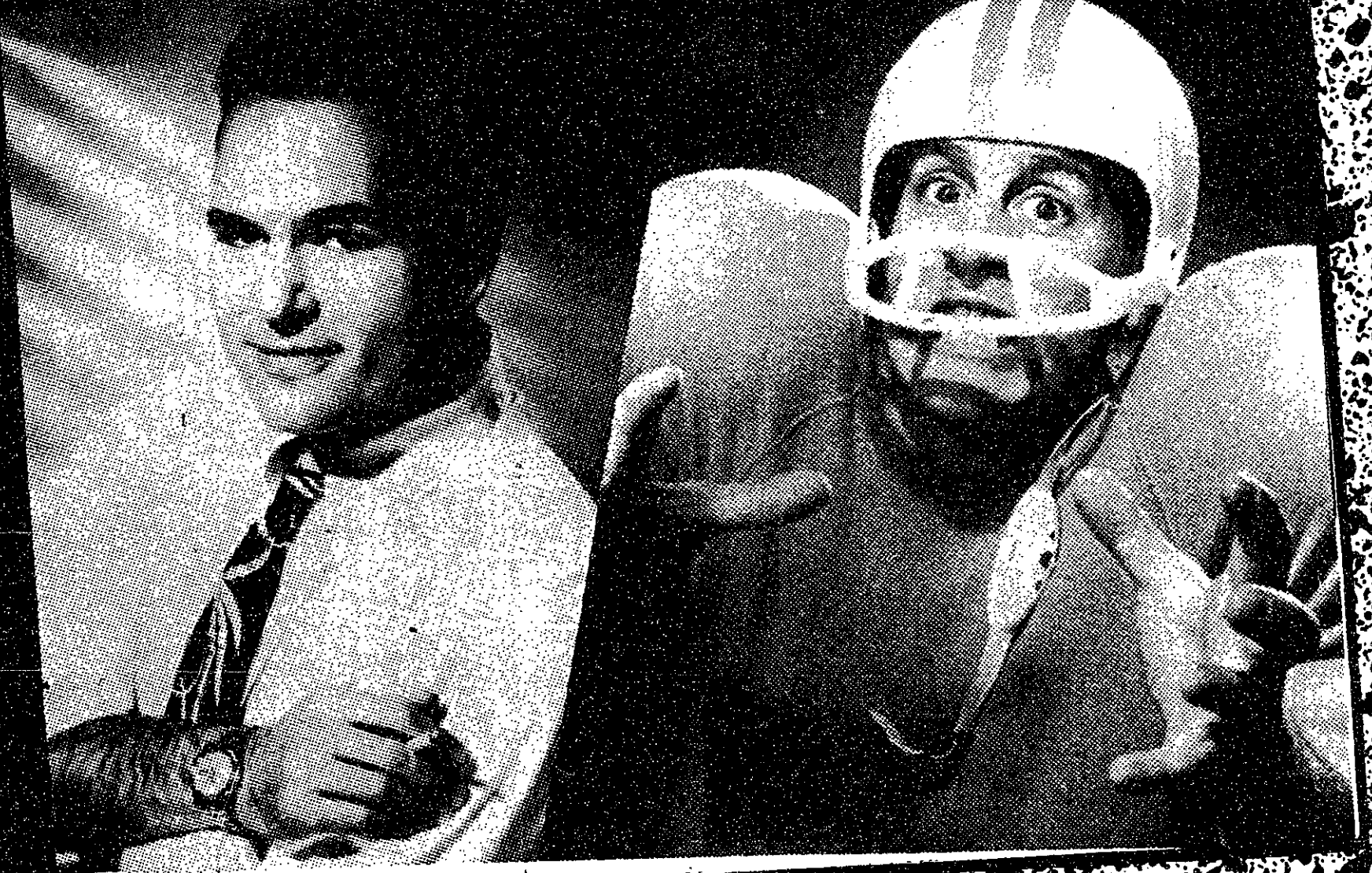
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Avant-garde jazz band is highlight of Boston scene

EITHER/ORCHESTRA

Johnny D's.
Oct. 13.

By Dave Fox
STAFF REPORTER

One of the advantages of life in Boston is the active musical scene. Boston is perhaps second only to New York as a hotbed of cutting-edge jazz performance. On Wednesday night, one of Boston's premier jazz groups, the Either/Orchestra, held up this tradition with a pair of sets at Johnny D's in Somerville.

The 10-man Orchestra, led by saxophonist Russ Gershon, consists of keys, bass, drums, and an incredible seven-piece horn section (2 trumpet/fluegelhornists, 2 trombonists, and three reed men). Their sound emphasizes the avant-garde, and represents an eclectic mix of free jazz and inventive arranging. The large horn section provides the Orchestra with an extensive tonal palette that their arrangements exploit to the fullest degree. Wednesday night's performance was a showcase for the Orchestra's unique sound.

I arrived near the end of the first set. The Orchestra was going full-tilt, playing a piece that was reminiscent of a New Orleans funeral procession. The tempo alternated from slow to fast and vice versa. During a slow portion, Charlie Kohlase offered a baritone sax solo that emphasized the full, "fat" tone of the big horn, giving the piece a certain authority. As the solo increased in intensity, the rest of the horns laid down a lush background, and the

tune reached a climax, dissolving into an upbeat vamp to end the piece.

The next tune began with a bass groove in a sort of Calypso fashion. The horns fashioned a nice line over the groove, leading to a nice trumpet solo by John Carlson. This was followed by a trombone solo, precisely executed by Dan Fox (no relation!). A drum solo by Matt Wilson was the highlight of the piece, as he used a stick and one hand on a timbale to drive the energy of the piece to a frenzy. After this, the music resolved to a vamp, over which Gershon introduced the band (with much humor). The band then took a short break.

To open the second set, the Orchestra played a tune called "Premonitions." This opened with a sort of laid-back, "cool" groove. The horns wove another intricate theme over the groove. The alto player was playing a bass clarinet, which helped give the horns a deep, rich sound (along with the bari sax and the trombones). Tom Halter played a beautiful fluegelhorn solo, during which he used the lower register of the horn to great effect. This was followed by a (digital) piano solo, and a clean soprano sax solo by Gershon. This led to a nice restatement of the original theme to end the piece.

The next piece, "The Half-Life of Desire" (from their album of the same name), featured Kohlase on alto sax. He laid down an expressive interpretation of the melody, with the other horns providing a nice background. The meter of the piece was altered, and then Kohlase delivered a dazzling alto solo. His playing was unrestrained, as he mined his

horn for many interesting sounds in very inventive sequences. He also hit some altissimo notes that seemed to be almost in the stratosphere! As the solo intensified, the horns similarly intensified their playing. The piece ended as Kohlase finally wound down.

Next was a very interesting cover of McCoy Tyner's "Vision." The arrangement used the full horn section to deliver the melody, almost fanfare style. The alto player performed a solo that started rather conventionally, but soon stretched the limits, as it became rather atonal. The energy level of the solo soon grew to very frantic, and as the solo finally wound down, Kohlase took over the spotlight and played a bari sax solo. Somewhere in the midst of all this, the feel of the piece changed from structured to free. During Kohlase's solo, Gershon directed the other horns in some "random" coloration effects, such as low-pitched shakes, "train-whistle" doppler effects, etc. This was very effective, as Kohlase manipulated his horn to produce ever stranger effects. After an energetic climax, the bass laid down a stacatto, "sequencer" sort of groove, to which the keyboard player added some colorations. This led to a restatement of the opening theme, to close the piece. Overall, this tune was quite thought-provoking.

Perhaps the highlight of the set was the Orchestra's performance of John Tchcai's appropriately named "Don't Lose Your Way." This featured the trombones playing a very fast vamp that soon obscured the individual measures (i.e. repeated rhythmic units) of the piece (as Tchcai obviously intended).

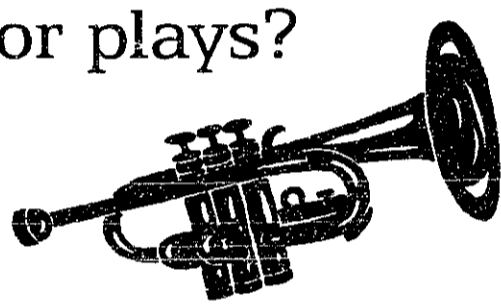
Over this, the rest of the horns played a similarly complex line which somehow meshed with the trombone vamp. As the (audience's) confusion grew, the horns backed off, and the trombones re-asserted their vamp line. Gershon then offered a nice tenor solo, during which (at times) the remaining horns added coloration over the vamp, as directed by Halter. This very extraordinary piece then resolved into an anti-climactic ending.

To conclude the evening, the Orchestra performed Kohlase's "The New Llama Walk." This had a somewhat conventional groove-in-four feel, and featured some nice horn lines with counterpoint supplied by the trombones and bari sax. Interesting "duelling" trumpet solos were offered, followed by "duelling" trombone solos, with each player wielding a plumber's helper. This led to a restatement of the opening melody to close the piece.

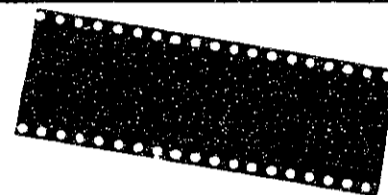
The sound of the Either/Orchestra, like that of other avant-garde groups, almost defies description. Their ability to keep several musical lines going in different directions to produce a cohesive whole is remarkable, and the sight of seven horn players arrayed across the stage is quite impressive. The members of Either/Orchestra are involved in many side projects, which offer many opportunities to hear these talented musicians in various settings. Gershon indicated that the Orchestra will next perform in Boston on Dec. 9 at an as yet unnamed club, so keep your schedule clear! These guys are a must-hear group for Boston jazz fans!



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Trio successfully juggles wide range of music

RAPHAEL TRIO

Kresge Auditorium
Oct. 15

By Thomas Chen

The Raphael Trio juggled music from three distinct periods last Friday night, jumping from Haydnian classicism to twentieth century modernity before stepping back to Schubert. Their playing got better as the evening progressed.

Haydn clearly gave the pianist the lead role in his Trio in E, and it's a demanding part, probably written for a pianist of exceptional ability. The Raphael's Daniel Epstein was clearly in command of the brilliant piano writing, but often played too loudly, overshadowing his colleagues. Violinist Charles Castelman was also off the mark, however, with an overly-intense and sometimes wide vibrato. The first movement may have opened happily enough, but the music became

extremely hard-pressed and unconvincingly argued, with the violin failing to produce a natural singing line. The middle movement Allegretto with its persistent base line was hurried through, as well. Although the players did warm up for the last movement, I remained unconvinced that what they were playing was a Haydn piano trio.

Things looked up for the performance of MIT music lecturer Edward Cohen's Trio of 1992, written especially for the Raphael. The outer movements have rhythmically-organized yet harmonically-dissonant themes. Cohen uses a ternary form where the third movement is a re-presentation of the first movement's material. The fast moving rhythms and technical demands on the players made these Scherzando movements exciting. The musicians displayed their technical prowess, easily transcending the difficulties presented them by the composer.

The middle movement Lento is characterized by Cohen as a dialogue among the three

instruments. It starts out ominously in the lower ranges of the piano and cello, gradually building into a heated argument between the violin and cello.

The overall organization of the work is impressive. Twentieth century works can sometimes not only be difficult to listen to, but also difficult to follow. Cohen's trio is logically organized and interesting to hear. And the Raphael did complete justice to the music created for them.

Unlike Cohen's trio which has a broad ABA form, the Schubert Piano Trio in E flat is written in the four movement "grand sonata style" that Beethoven catalyzed by allowing more freedom for the strings. Schubert probably wrote the trio in 1827, near the time of his other piano trio in B-flat. Compared to the lyrical, eloquent B-flat trio, the relatively less-cohesive E-flat trio is less often played as no less a music critic than Robert Schumann wrote that the E-flat trio "passed across the face of the musical world like some angry

portent in the sky."

The Raphael Trio's interpretive approach seemed to fit this work better than it had the Haydn. The group played with more personality this time, and the violin tone seemed more natural for Schubert's music.

It was a particular joy to hear the excellent cellist Susan Salm play more melodic material. Perhaps the most understated of the three musicians, she consistently produced a balanced tone, coupled with musical intelligence; I especially enjoyed her playing in the slow movement.

The last movement can sometimes seem a little long-winded; Schubert himself even chose to cut about a hundred bars from his original manuscript. However, the Raphael Trio produced a very strong finish in Schubert's over-extended last movement rondo, holding the excitement through the very end. As deserved, they were warmly rewarded by an enthusiastic ovation from the audience.

Family Weekend concert proves to be mixed bag

FAMILY WEEKEND CONCERT

Oct. 16, 7:00pm
MIT Brass Ensemble
MIT Festival Jazz Ensemble
MIT Concert Band.

By Craig K. Chang
STAFF REPORTER

Saturday's Family Weekend concert in Kresge Auditorium was an exercise in the alternation between structure and freedom. The Brass Ensemble offered the strict idioms of brass ensemble. The Festival Jazz Ensemble gave the audience a taste of freedom and improvisation. And the Concert Band returned to the more formal language, but expanded on the Brass Ensemble's structure into a more evocative language of sounds and images.

The Brass Ensemble appropriately opened the evening with Gordon Jacob's Salute to America, setting the tone of cele-

bration and march closely associated with the genre of brass music. The Brass Ensemble's performance failed to convince, however, mainly due to poor programming. Edvard Grieg's Holberg Suite seemed too awkward for a brass ensemble of this size. The piece, originally written for piano, stumbled too much in Neil Balm's contemporary arrangement for brass. The large brass ensemble simply could not provide the color and articulation the piece demands. Add to that Lawrence Isaacson's thoroughly tepid directing, and the music seemed too loose to decipher the composer's original intentions. Even the Brass Ensemble's move into more familiar territory in Purcell's Trumpet Voluntary suffered from unenthusiastic directing, which left the players struggling to bind together rather than staring the music down with confidence on a more majestic plane of thought.

Next, the Festival Jazz Ensemble broke in with the swinging of Ray Charles. In

Charles's Rockhouse, the group edged into the vibrancy of individual expression. Above the groups incredibly terse rhythmic sense were the voices of jazz featured in various licks. Each improvisation took the spotlight on and off, and forced us to witness the sometimes quirky and sometimes smooth style of each player. Even though the band stayed close to traditional jazz idioms, the element of individual expression lent the playing brilliant life.

As the energy of the Festival Jazz Ensemble died down, the Concert Band communicated something more akin to the individualistic expressiveness of jazz than to the typical fare of a "concert band." Beginning with Gustav Holt's monumental First Suite for Military Band, the group demonstrated Holt's skill in using the concert band as a much richer instrument. Gone were thin themes, whose replacements appeared to be voices with individual character. The performance benefited from the confident conducting of John Corley,

who urged on the many shades of lyricism that distinguished themselves from typically trite patterns of military marches. Elliot Del Borgo's "Canticle" also offered us special voicing. The use of the entire flute section for the solo group created an ethereal, otherworldly effect.

But the most significant synthesis of voice, expression, and music came at the end of the concert, during Edward J. Madden's "Touchstone," a work set to the poetic words of John F. Kennedy. As President Vest recited excerpts from John F. Kennedy's writing, and as the band played music evocative of idealistic majesty and respect, a stately ambience entered the hall. As Vest spoke Kennedy's ideas on art, on the state of the nation, on politics, and on poetry, the music became more than entertainment: a romantic proclamation of mankind. The brass projected majesty, the winds brought us to another world, and the voice of reason at last melded with human poetry.



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Yap shines in concert

FIRST EXPRESSIONS

Symphony Hall.
Oct. 16.

By Anne Wall

Saturday night a Symphony Hall Gala Concert and Art Exhibit marked the opening of First Expressions, a non-profit gallery for student arts. The organization aims to promote fine student artists from the Boston area's colleges and universities by offering gallery space and performance opportunities. First Expressions also plans to sponsor educational programs concerning AIDS/HIV issues. Net proceeds from the gallery will be donated to the Children's Hospital AIDS program.

The event began with the opening of a gallery of student art and a reception hosted by Kitty and Michael Dukakis. The exhibit included artwork from several MIT students, as well as students from Emmanuel College, Northeastern University, DeCordova Museum School of Arts, The School of the Museum of Fine Arts, Massachusetts College of Art, University of Massachusetts, Boston, and Art Institute of Boston. Each school will also be featured in a 6-week gallery exhibition series than runs through next August.

All of the pieces were for sale, but don't rush out to buy them. The prices were \$500 and up and did not seem to reflect the value of the work. Most of the art was clearly student work and seemed less than artistic. MIT students were sensible enough to list "price on request." A favorite of mine was Saul Gonzalez's "The Real Reason Why Giant Tulips Became Extinct," which showed a dinosaur hungrily eyeing a giant tulip. MIT art students will have another opportunity to exhibit their work at the First Expressions gallery from Nov. 29 to Jan. 8.

The concert program featured students from New England Conservatory, MIT, Tufts, and Harvard universities. The first performer was Jeffrey Work, trumpet, with pianist Max Levinson, both Artist Diploma candidates at NEC. They performed four pieces together, ranging from Baroque to 20th century and ending with a flashy showpiece. While Mr. Work demonstrated a beautiful sound and good command of the instrument, he did not display much variety of style and character in the music, making for a rather unremarkable performance. Probably a good decision for him to go back to school for the Artist Diploma and seek further guidance.

The highlight of the evening was undoubtedly pianist Jee-Hoon Yap from MIT, whose sensitive musicianship and fluid technique in her performance of the famous Liszt Sonata in B minor brought her an enthusiastic standing ovation. She had a clear understanding of the intricate form of the piece and her performance was captivating from beginning to end. Few people have the stage presence and musical charm to hold an audience's attention through a complicated half-hour piece, and Ms. Yap is lucky to be one of them. Don't miss an opportunity to hear her perform.

The next performance was by the Jackson Jills, a group of Tufts female students from Medford. They were clearly the least talented and rehearsed group of the evening. Their severe and painful balance problems showed they had not even bothered to check their microphone placement and levels before their performance. Perhaps they should have considered not using microphones in Symphony Hall. After being assaulted by their first attempt at a song, one question came to mind — "Who organized this concert?" It was insulting to the other performers that this group was chosen to be on the same program. While they may be appropriate performers for smaller college functions and nightclubs, they really did not fit in here. They had all the musical sensitivity of a herd of inebriated stampeding rhinoceroses. This was probably the reason the Dukakis left early.

The final performance of the evening was by Harvard's Linnaea String Quartet. They performed Ravel's colorful String Quartet in F with grace and strong ensemble playing. They are now juniors and have been playing together since their first year at Harvard. They plan to stay together until they graduate, so we can look forward to future performances.

In the end, First Expressions seems to be an organization lacking direction. Are they trying to help young would-be professional artists and musicians get started, or are they just showcasing local college students in a talent-show type arena? If it has been created to promote young artists and musicians, then the profits should go towards furthering this goal. The money could be put towards scholarships and sponsoring more recitals and performances. Musicians of the highest level should be sought and carefully selected. Perhaps it would be good to promote more students who intend to become professional musicians, as these type of performing opportunities would be quite valuable to their careers.



YUEH Z. LEE—THE TECH

The Chorallaries (above) and the Logarithms (below) performed in 10-250 for Family Weekend.



YUEH Z. LEE—THE TECH

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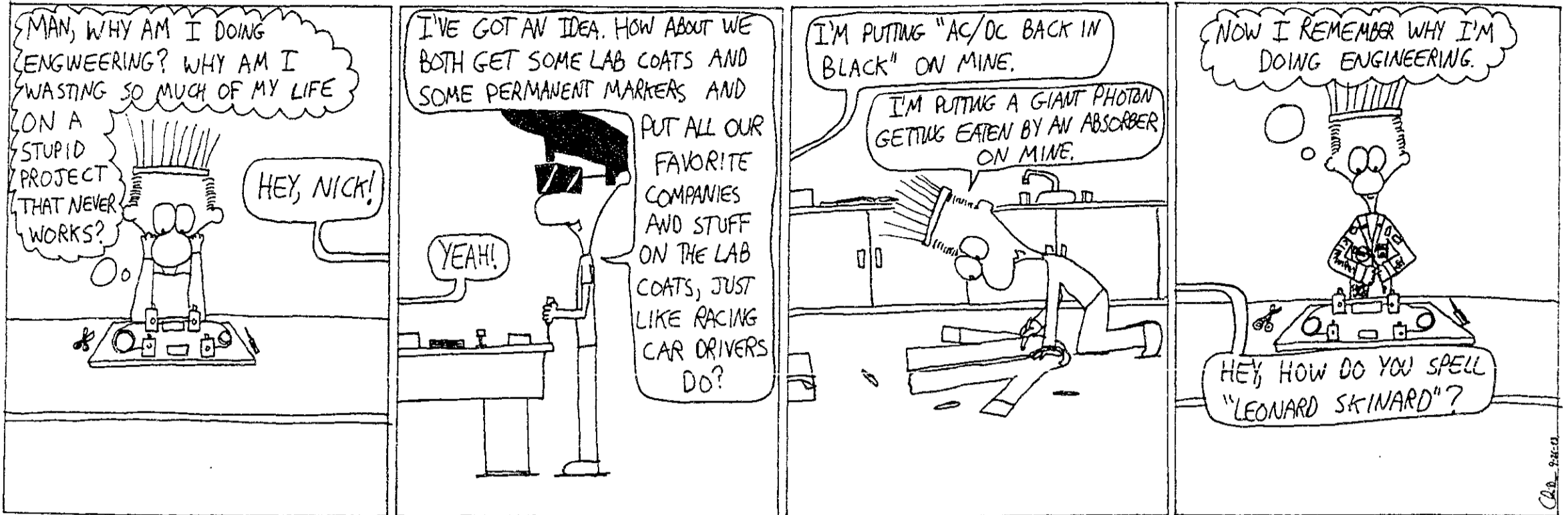
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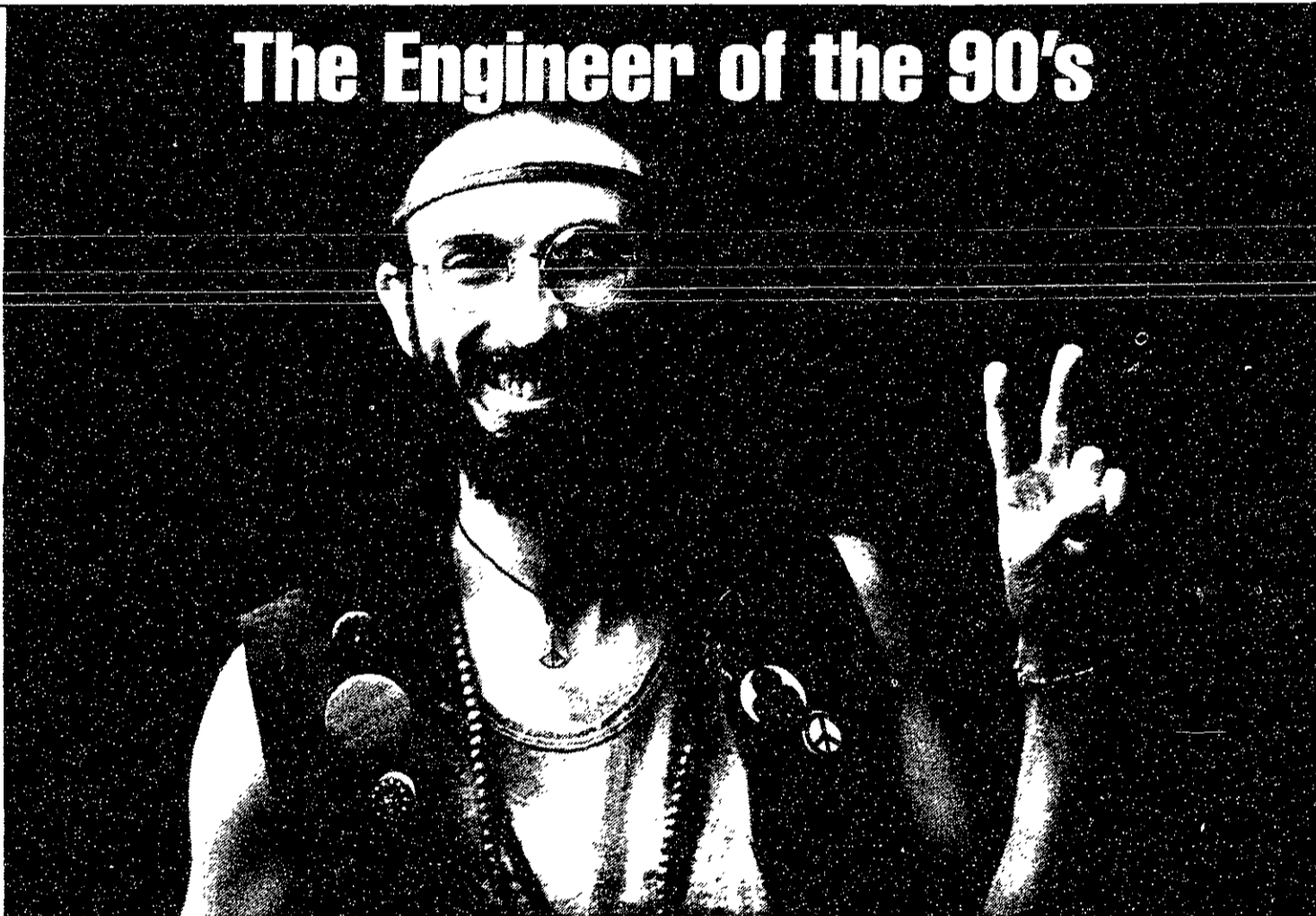
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Nick

by Chris Doerr



The Engineer of the 90's



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Bio Building to Open in March

Construction, from Page 1

built to accommodate the needs of today and tomorrow," Macomber said.

"MIT went way out of its way to prepare for the future" in regards to the new biology building, Macomber said.

The interior of the building was customized around the equipment and layout required for cutting-edge research. But as more modern equipment becomes available, and as faculty members come and leave, the building's final plans have had to be reworked.

"We fully understood that there might be changes in the faculty," Lawton said. "You design for one person and redesign for the next person in line." This process is part

of the course of any construction, whether it be for a biology building or otherwise, he said.

There were also some problems with the physical construction of the building. "Initially we had problems with the soil. The clay [was] not quite as stiff as we thought it was," Lawton said.

The moisture in the clay is due to the high water table, which is about 10 feet down, Lawton said. This is because the land was once covered in water. "At one time there used to be docks all the way up to Main Street," Lawton said.

Building 66 is simply "a large concrete boat" sitting on a slab of concrete about five feet thick, Lawton said. The new biology building is built similarly, with no piles in its foundation.

Old faces, new building

George B. H. Macomber Co., established in 1904, has taken six projects at MIT, including Rotch Library, Building E17, and the Martin Mechanical Institute for Engineering Design in Building 3.

The architects of the new building, Goody, Clancy, and Associates, have also done previous work for MIT, including designing the Whitehead Institute for Biomedical Research and major renovations for the Center for Cancer Research.

The new biology building has no other name yet, although "If you're willing to give \$50 million, we'll name it after you," Lawton said.

The missing name should not trouble students and staff, however. The building has been assigned its number — Building 68.

Safety Emphasized After Robberies

Robberies, from Page 1

apprehended the suspects, according to Campus Police Chief Anne P. Glavin. No similar incidents were reported to the Cambridge police, she said.

Glavin emphasized the importance of taking safety precautions when traveling at night. People should ride the Safe Ride vans rather than travel on foot, she said.

"You might have to change your habits, and it might be less convenient, but hopefully Safe Ride is more convenient now than it ever was. I would certainly encourage

people to use it," Glavin said.

A Safe Ride runs from 6 p.m. to 3 a.m. Sunday through Thursday and until 4 a.m. on Friday and Saturday. There are four vans that follow routes through Cambridge and Boston.

The Campus Police Crime Prevention Unit issued a bulletin with other safety tips:

- If you choose to walk at night, there is greater safety in a group.
- If you are robbed, do not fight to keep your property.
- If you see suspicious activity, call Campus Police immediately. Use a blue emergency telephone or dial 100 on an Institute telephone.

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REFERENCES: Try to include at least one MIT faculty or staff member and one peer reference.

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Activity, Honor, or Award	Dates of Participation	Positions Held (e.g. Pres., Treas.)

STATEMENT: Briefly state why you have chosen to nominate this individual. Your statement is the most important part of this nomination. Please continue on the back or attach a separate sheet if necessary.

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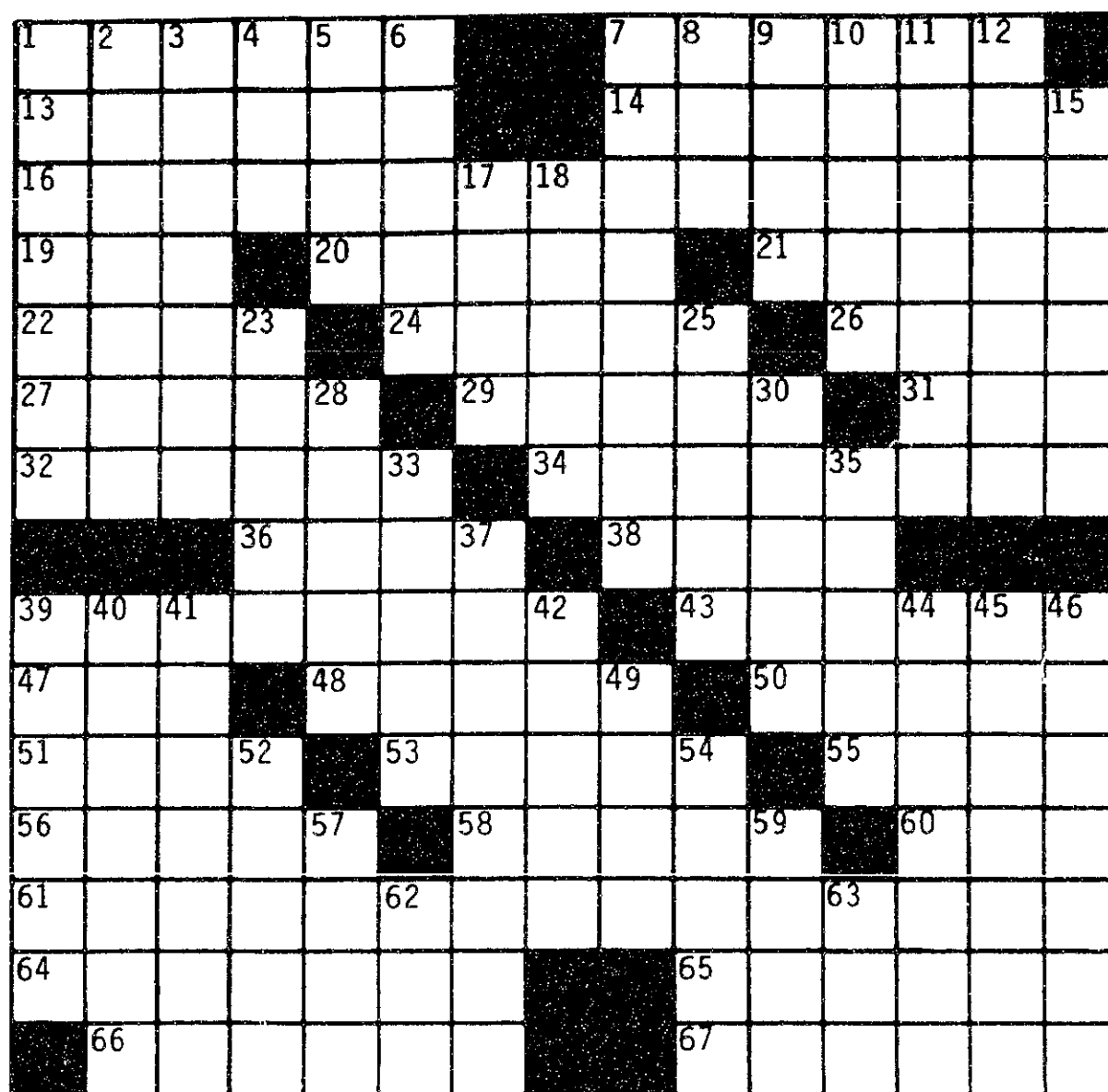
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ACROSS

- 1 Neutered
- 7 Hunting expedition
- 13 Elaborately decorated
- 14 Shaded walk
- 16 Handyman (hyph.)
- 19 New Zealand muttonbird
- 20 Katmandu's country
- 21 These: Sp.
- 22 Chemical substance
- 24 Put in fresh soil
- 26 Satisfy completely
- 27 Dishwasher cycle
- 29 Coolidge's VP
- 31 Part of MPH
- 32 Type of fisherman
- 34 Most piquant
- 36 Make _____ in (tear)
- 38 Map abbreviations

DOWN

- 1 Brief stay
- 2 Rolling grassland
- 3 Antiquated
- 4 Wild ox of Asia
- 5 Prep school near London
- 6 Postpone
- 7 More yellow or sickly looking
- 8 Height abbreviation
- 9 Taxi passenger
- 10 Collect together
- 11 Bureaucratic delay (2 wds.)
- 12 Forms thoughts
- 15 State positively
- 17 Imitated
- 18 South American capital (2 wds.)
- 23 "Take _____ at it"
- 25 LSAT and GMAT (abbr.)
- 28 Weird
- 30 Porterhouse, e.g.
- 33 Starr of music
- 35 Man and Capri
- 37 Famous vocalist (2 wds.)
- 39 Volume
- 40 Those who make amends for
- 41 Attendants to an important person
- 42 Fine line on some letters
- 44 Gave medical care to
- 45 Expungement
- 46 Energetic, hard-working people
- 49 D.E. Indies measure
- 52 Pungs
- 54 Cults
- 57 Assam silkworm
- 59 Organ part
- 62 Bank equipment (abbr.)
- 63 _____ pro nobis

Solutions, Page 14

Eat a Pizza

IT CAN MAKE A DIFFERENCE

Eat a pizza with members of the Corporation, MIT's governing body, and find out how you can make a difference at MIT.

The ballot to elect a young alumni/ae (Classes 1990, 1991, 1992) to the Corporation needs strong candidates. Could that be you or a friend at MIT? Herald your interests and concerns by nominating yourself or a friend.

Watch your mail for nomination notices and come to the Open Meeting on Wednesday, November 13, 6:00 to 8:30 p.m., Room 491 in the Student Center. Share a pizza with members of the Corporation and learn how you can make a difference for the student body at MIT.

See other side for nomination form.

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Undergraduates from all majors are welcome to attend.

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MIT Promotes Minority Hiring

Minority, from Page 1

Asian representation "in positions of leadership."

Initiative promotes minority hiring

According to a statement issued by Wrighton this year, the 1991 program includes three planks:

- When no faculty opening exists, the administration will award a new slot with funding to a department that appoints a member of an underrepresented minority group to a regular position.

- If a department recruits a minority professor through a regular faculty search, the general operating

budget of that department increases by \$30,000. For a period of five years, half of this increase must be made available as a discretionary scholar allowance.

- Funding (\$200,000 in 1991) will be available in the Office of the Provost to recruit underrepresented minority groups as visiting professors, visiting scholars, visiting lecturers, or post-doctoral associates. The aim is to acquaint MIT with outstanding minority candidates.

The initiative should not be interpreted as a quota program, said Judy F. Jackson, associate dean and director of the Office of Minority

Education. "There are too few minority professors at MIT for any effort to be labeled a quota program," she said.

Jackson added that affirmative action "is not an evil concept, despite its misinterpretation by a great many people, [but] merely implies that it's okay to hire the qualified minority ... to increase that particular ethnic or gender representation in the work force."

She also said that "the student body would be more greatly enriched ... if students are taught by some of the people who represent that world."

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POLICE LOG

The following incidents occurred on or near the MIT campus during the period Oct. 10-13:

Oct. 10: McCormick Hall, bicycle stolen from rack, \$200; Senior House, obscene phone calls.

Oct. 11: Westgate, '87 Toyota stolen; W91 lot, Honda broken into, nothing missing.

Oct. 12: Bldg. W59, male arrested for trespassing and assault and battery on a police officer.

Oct. 13: Bldg. E56, office supplies stolen, \$160; vandalism to a computer \$768; Bldg. 2-bicycle rack, bicycle stolen, \$450.

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NOTICES

LISTINGS

Student activities, administrative offices, academic departments and other groups — both on and off the MIT campus — can list meetings, activities, and other announcements in *The Tech's* "Notices" section. Send items of interest (typed and double spaced) via Institute mail to "News Notes, *The Tech*, room W20-483," via US mail to "News Notes, *The Tech*, PO Box 29, MIT Branch, Cambridge, MA 02139," or via Internet e-mail to notices@the-tech.mit.edu. Notes run on a space-available basis only; priority is given to official Institute announcements and MIT student activities. *The Tech* reserves the right to edit or refuse any listing, and makes no endorsement of groups or activities listed.

ANNOUNCEMENTS

OCTOBER 19

The Edgerton Center is sponsoring a slide presentation, **On the Nature of Things, the Scientific Photography of Fritz Goro**, at 7:30 p.m. in room 34-101. Call x3-4629 for more information.

OCTOBER 21

The annual **Sustainable Transportation and Solar and Electric Vehicle Symposium** continues through Oct. 23 at the Boston World Trade Center. The symposium will focus on inter-modal transportation — the way cars, buses, and trains are linked to create an efficient transportation network.

"Networked Health Care Delivery: Opportunities and Challenges for the '90s," a seminar given by the MIT Communications

Forum, will be from 4 p.m. to 6 p.m. in Bartos Theater in Building E15. Call 253-0008 for more information.

OCTOBER 22

The Overseas Development Network will sponsor a seminar on **"Regional and Global Migration: Students Taking Action"** from October 22 - 24 at Wellesley. Call (415) 431-4204 for information and registration.

OCTOBER 23

The Harvard Graduate School of Design will sponsor a colloquium on **"Shaping Architectural Practices and Education,"** the first of four colloquia on the past, present, and future of architectural practice in the United States. Call 495-4315 by October 23 to register.

OCTOBER 24

The **Committee for Accuracy in Middle East Reporting in America** will sponsor a workshop for college students examining the media coverage of the Middle East. The workshop will be held at Brandeis University at 5:30 p.m. The cost is \$5. The workshop is part of a day-long conference. Call 789-3672 for more information.

The New England Coalition on Nuclear Pollution will host a conference: **"The New England Safe Energy Conference: Energizing the Grassroots Grid"** at the Sheraton Tara Wayfarer Inn in Bedford, N.H. beginning at 8:30 a.m. Call (802) 257-0336 for more information.

OCTOBER 28

The IEEE Society for Social Implications of Technology is sponsoring **"Still Under the Long Shadow: The Vanunu Story"** at 6:30

p.m. in room E51-140.

Kevin Greer of the Spartacist League will speak on **"The Russian Revolution of 1917 — A Marxist Analysis"** at 7:30 p.m. in Sever Hall, Room 111, at Harvard University. Call 492-3928 evenings for more information.

NOVEMBER 1

The Women's Forum is sponsoring **"Sacrificing Health for Acceptance,"** a discussion about pressures women may feel to change their appearance for love relationships, from 12 noon to 1 p.m. in Killian Hall. Call x3-7741 or x3-2851 for more information.

NOVEMBER 7

The **Greater Boston Antique and Collectible Toy Show** will be at the Holiday Inn in Dedham from 9 a.m. to 2:30 p.m. Call (508) 379-9733 for information.

NOVEMBER 10

The Women's Forum is sponsoring a workshop, **"Women's Development — What Goes Right, What Goes Wrong,"** from 12 noon to 1 p.m. in Killian Hall. Call x3-1592 for information.

NOVEMBER 11

The Boston Area Solar Energy Association is sponsoring a lecture on **"Cost Effective Applications of Photovoltaics"** at 7:30 p.m. at the 1st Parish Unitarian Church. Call BASEA at 49-SOLAR for more information.

There will be a panel discussion on **"Professional Ethics"** at 7:15 p.m. at the Bay Colony Corporate Center. This is sponsored by the IEEE Society for Social Implications of Technology.

The Tech News Hotline 253-1541

SOLUTIONS

Puzzle, Page 12

S	P	A	E	D	S	A	F	A	R	I				
O	R	N	A	T	E	A	L	A	M	E	D	A		
J	A	C	K	O	F	A	L	L	T	R	A	D	E	S
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U	R	E	A	R	E	P	O	T	S	A	T	E		
R	I	N	S	E	D	A	W	E	S	P	E	R		
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How Well

Do You

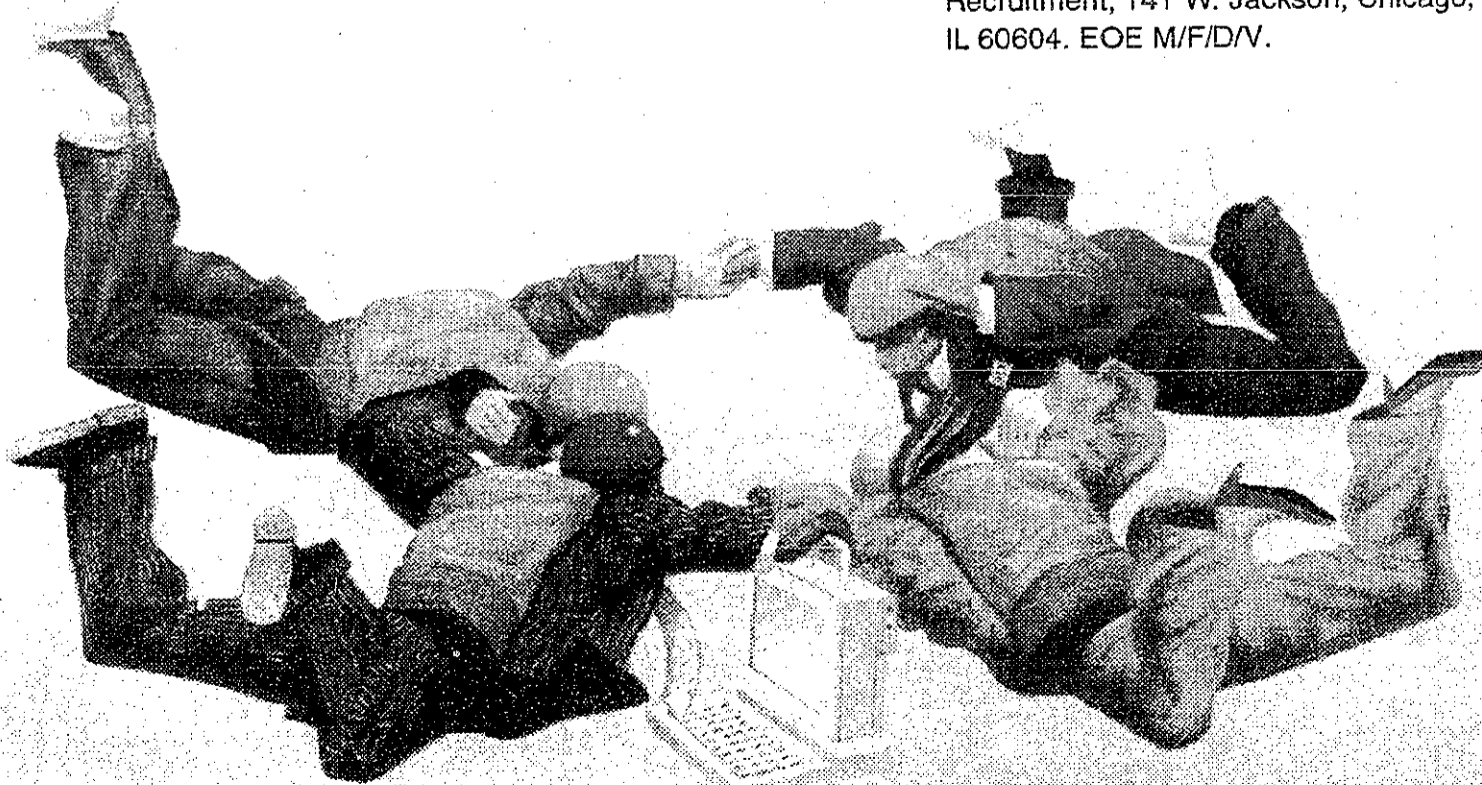
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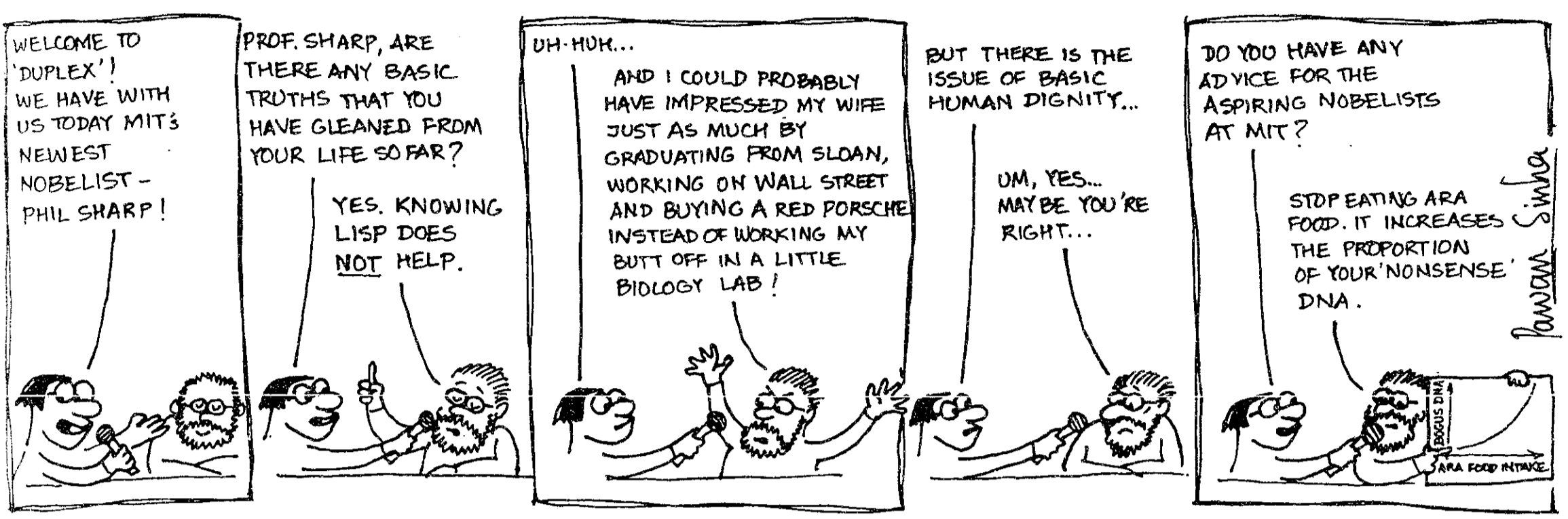
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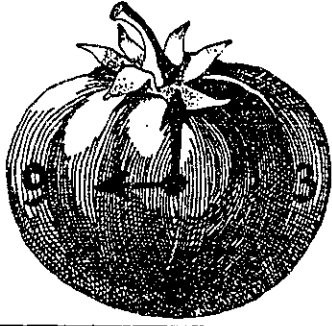
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Crimson & Brown Associates presents the
**Multi-Industry Information Session
for Minority Seniors**

hosted by

**The Boston Consulting Group
Merrill Lynch
Pfizer**

Tuesday, October 26, 1993
6:30 - 9:30 PM at The Charles Hotel
Harvard Square, Cambridge, MA

REGISTRATION: Send your resume by October 22 to Crimson & Brown Assoc., 1430 Mass. Ave., #1003, Cambridge, MA 02138. Tel. 617-868-0181. On back of resume, select one co.'s presentation to attend (BCG, ML or PF).

The event is free to students.
Free transportation provided to students outside the immediate Boston area.

Velez to Appear On Oct. 25

Trial, from Page 1

juvenile court on Oct. 7 and sentenced to 20 years in prison.

Donovan, who was 17 at the time of the murder, and Velez, who was 18, are being tried as adults in Cambridge District Court. Velez is also charged with murder and two counts of armed robbery. His trial is scheduled to begin on Oct. 25.

McHugh was convicted in a trial without a jury. District Judge John Brandt found him guilty after a 3-day trial and sentenced him to 20 years in prison.

Under the Massachusetts juvenile murder law, McHugh was granted an automatic appeal. The pre-trial conference for the appeal is scheduled for Nov. 5. In the new trial, McHugh will be tried before a 12-person jury.

Brandt will not preside over McHugh's new trial, but the case has not been assigned to a new judge yet.

At a typical pre-trial conference, attorneys discuss their progress in collecting evidence and preparing arguments for the trial. Because this is the second trial for McHugh, the conference will serve primarily to inform the new judge and the case should move quickly to trial, Reilly said.

NOTICES

ONGOING ANNOUNCEMENTS

ANNOUNCEMENTS

The Provost's Office is accepting nominations for the **MacVicar Faculty Fellows Program**, which is intended to recognize and enhance undergraduate education at MIT. Nominations for appointment to a 10-year term should be submitted no later than Nov. 15. Nominations may be submitted by any member of the MIT community and should consist of a substantial case.

Three weekends at **Talbot House** are open in November and will be reserved on a first-come, first-served basis. Regular scheduling deadlines for reserving time in December is Friday, Oct. 29, for January is Friday, Nov. 19, and for February is Friday, Dec. 17. Please note that regular scheduling is done strictly on a lottery basis. Groups who have gone to Talbot House recently will not have it counted against them; groups who have not been to Talbot House in years will not have it in their favor because of that as had been done in the past. Groups of 15 or more. Only. Applications and information are available outside W20-549. Call x3-4158 for more information.

The American Red Cross Blood Services — Northeast Region has reopened its Clinical Testing Service at a new Boston address, offering confidential HIV (AIDS virus) antibody testing and premarital blood testing to area residents, employees, and students. Call 1-800-223-7849 for an appointment and more information.

COUNSELING

Today, more than two million men and women are demonstrating by their personal example that alcoholism is an illness that can be arrested. If you have an alcohol related problem please get in touch with the Alcoholics Anonymous group nearest you — with complete assurance that your anonymity will be protected. Call 426-9444 or write: Alcoholics Anonymous, Box 459, Grand Central Station, NY 10163. You will receive free information in a plain envelope.

The **Behavioral Medicine Program** of the Cambridge Hospital sponsors short-term groups throughout the year to help with anxiety and stress, panic attacks, depression, smoking cessation, weight management, pain, headaches, and social anxiety.

VOLUNTEER OPPORTUNITIES

MATCH-UP Interfaith Volunteers welcomes caring volunteers to visit with isolated elders in your Boston or Brookline neighborhood. Flexible scheduling and commitment levels. Call 536-3557 for information.

Recording for the Blind urgently needs professionals, retirees, and college students to help us record new textbooks for our borrowers local and worldwide. Find out about Cambridge's most convenient, flexible, and rewarding volunteer opportunity. Call 577-1111.

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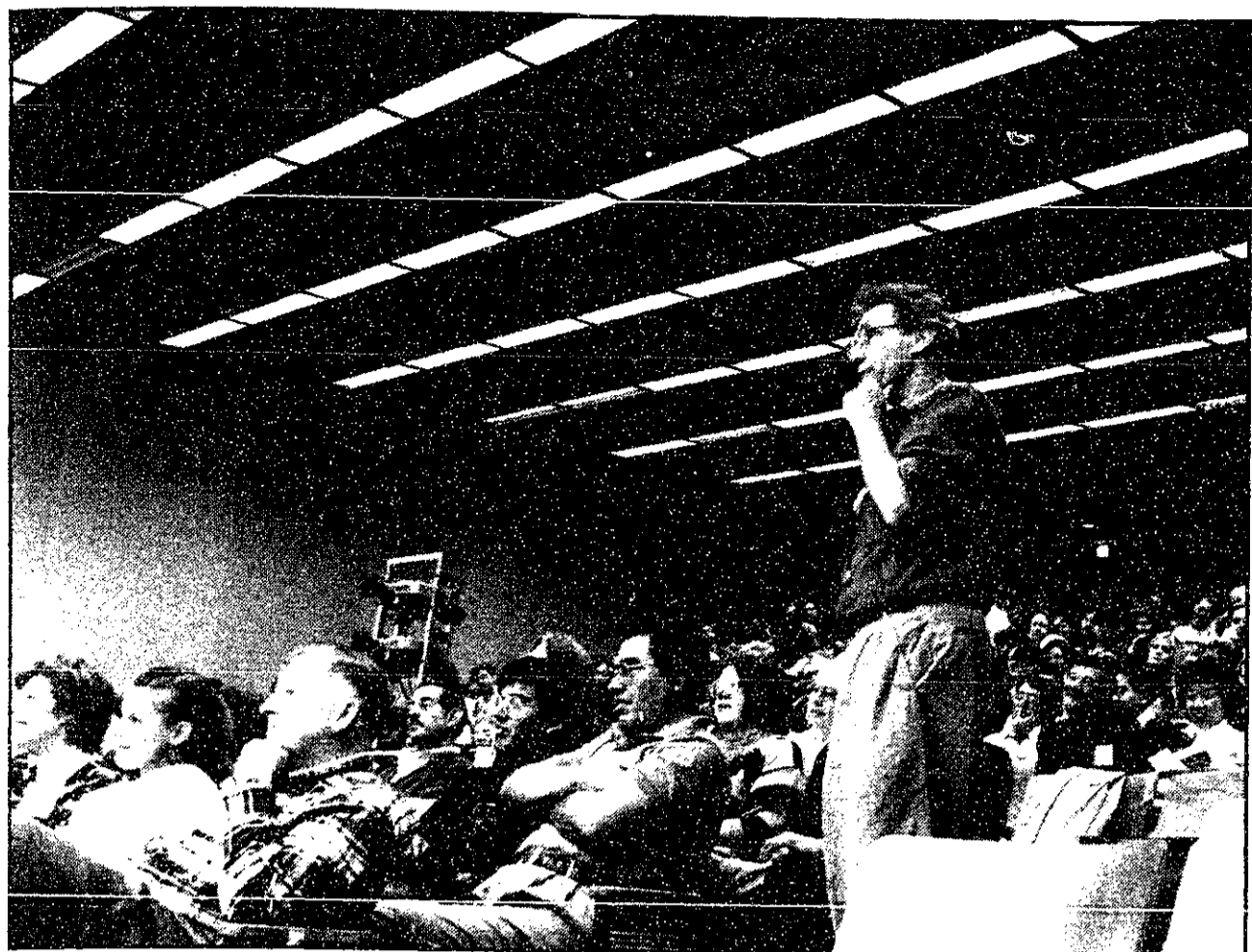
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THE CHANGING FACE OF WALL STREET AND WHY MIT TALENT IS IN DEMAND

Three talks for graduate and undergraduate students in all disciplines

Thursday, October 14 Room 4-149
TRADING & TRADING ANALYTICS
 Till M. Guldimann
 Managing Director, Global Markets
 J.P. Morgan & Co.

Tuesday, October 19 Room 4-153
CORPORATE & PUBLIC FINANCE
 John J. Ying (MIT Course 6, '84)
 Vice President, Investment Banking Group
 Merrill Lynch

Thursday, October 28 Room 4-149
TECHNOLOGY
 Michael L. November (MIT Course 16, '83)
 Vice President, Fixed Income Division
 Goldman, Sachs & Co.

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

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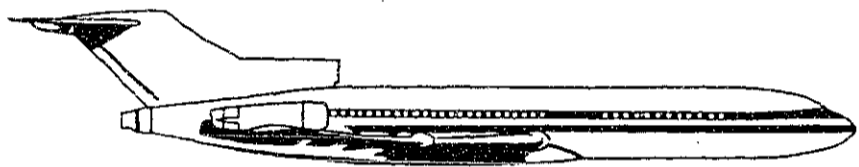
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Scholarship Opportunities to Study in Germany

DAAD Annual Grant Competition (German Academic Exchange Service)

DAAD (The German Academic Exchange Service) is offering scholarship opportunities for US and Canadian students to study in Germany. Only US and Canadian citizens are eligible to apply. Applicants must be advanced graduate or Ph.D. candidates who can show that a stay in Germany is absolutely essential for the completion of their research projects. Preference will be given to candidates who have been invited by a faculty member at a German university to study or do research in a particular department, institute or laboratory. Application forms are available in the International Student Office (5-106) and the Dean of Graduate School Office (3-132). Completed application forms must reach DAAD New York by November 1, 1993.



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Come and meet us at an informal reception:

Thursday, October 21

4:30 - 6:30

Faculty Club

Recruiters will be on campus interviewing on November 2 and 3. We are looking for innovative, motivated engineers and scientists expecting to graduate with the following degrees:

Chemistry	S.B./S.M./PhD.
Chemical Engineering	S.B./S.M./PhD.
Materials Science	S.B./S.M./PhD.
Mechanical Engineering	S.B./S.M./PhD.

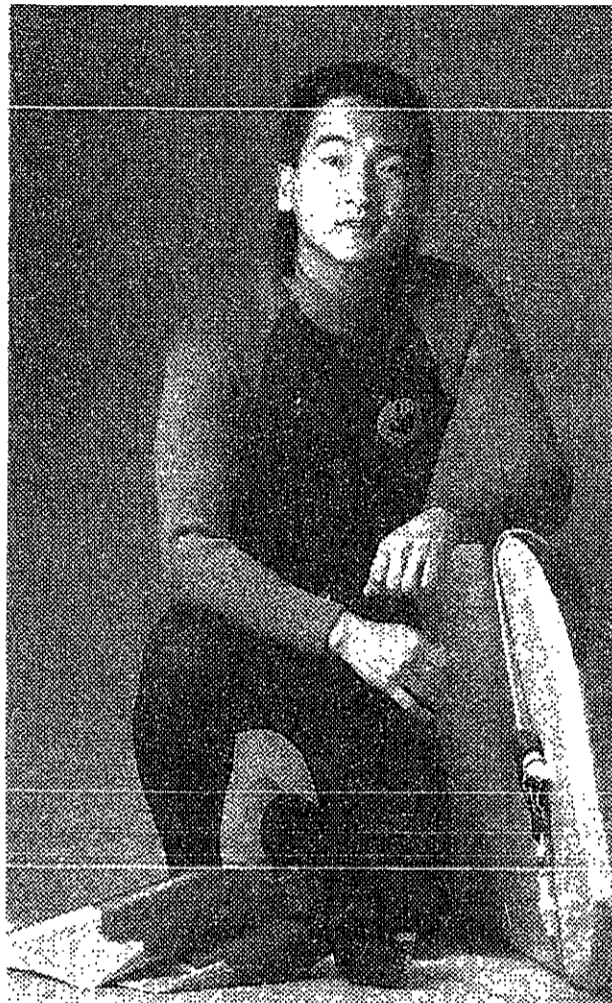
Computer Science and Engineering	S.B./S.M.
Electrical Engineering	S.B./S.M.

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—Charlie Sakamaki joined QUALCOMM in early 1991 right after graduating from M.I.T. with a BSEE and MSEE. A hardware engineer, Charlie is an ASIC designer for our Vocoder ASIC.



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**Attend a special preview of the QUALCOMM story at
6:00 PM, October 26, Rm. 4-149
the night before our on-campus interviews.**

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Jim's Journal

by Jim

Panel 5: I ran into Tony today and we ended up going to the post office together.

Panel 6: We stood in line and Tony was looking at the FBI posters of wanted fugitives.

Panel 7: He pointed to one and said, "Hey, this one looks like you, Jim."

Panel 8: Then he yelled to the postal workers, "I found one! I'll hold him down, you call the cops!" and laughed.

Panel 1: Today there was a knock on my door.

Panel 2: I said, "come in," but nobody came in.

Panel 3: I opened the door and saw Tony on crutches.

Panel 4: "Behold the gimp!" he said.

Intel is Coming to MIT!

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SWE Career Fair
 Saturday Oct. 23, 1993 11AM-4PM
 Dupont Athletic Facility

Intel Technology & Career Expo
 Monday Oct. 25, 1993 11AM-4PM
 Student Center, 3rd Floor Mezzanine Lounge

Campus Interviews
 Wednesday & Thursday, Oct. 27-28, 1993, All Day
 for full-time, summer and co-op positions.

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STUDENTS IN THE FOLLOWING AREAS are encouraged to submit their resumes:
 Engineering (Electrical, Chemical, Mechanical), Computer Science, Material Science, Physics, and Business (Finance, Sales, Marketing)

STUDENTS INTERESTED IN A CAMPUS INTERVIEW WITH INTEL MAY:

- Leave resumes with the MIT Office of Career Services (Room 12-170)
- Submit resumes to Intel recruiters at the Society of Women Engineers (SWE) Career Fair on Oct. 23
- Submit resumes to Intel recruiters at the Intel Expo on Oct. 25

Intel Corporation is an equal opportunity employer and fully supports affirmative action practices. Intel also supports a drug-free workplace and requires that all offers of employment be contingent on satisfactory pre-employment drug test results.

SPORTS

Men's Soccer Downs WNEC, 4-1

By Dan Wang
STAFF REPORTER

The men's soccer team seemed unaffected by a ten-day break from games on Saturday, as it defeated Western New England College, 4-1. This victory improved the Engineers' season record to 5-3.

MIT gained an early lead and never lost it. Samuel Pearlman '96 scored two goals in the first two minutes, the first on an assist by Jason Grapski '94 and the second on an assist by Nathan Watson '95. Minutes later, David Roberts '95 increased the gap to 3-0, with another assist by Grapski. After that, no goals were scored for more than ten minutes, until a WNEC player placed the ball out of reach of MIT goalie Raja Jindal '95 to make the score 3-1.

For most of the end of the first half and the beginning of the second, the two sides traded control of the ball. Both MIT and WNEC had numerous chances to score, but simply could not put the ball in the opponent's net.

Pearlman scored the only goal of the second half with 30 minutes, 59 seconds left in the game, on assists by Attila Lengyel '94 and Brian DiVasta '95. Despite being unable to score again, the Engineers controlled the tempo from that point on, spending much more time on the WNEC half of the field than on their own.

Statistics clearly showed that MIT combined a strong offense with a tenacious defense. MIT goalies Jindal and Andrew Allen '96 had three saves each, out of only seven shots-on-goal, as the defense was able to keep the ball away from the goal area. On the other hand, MIT's offense took fifteen shots-on-goal, forcing eleven saves by three WNEC goalies, as well as scoring four goals.

The next three upcoming games will all be played at MIT. The Engineers face Tufts University today and Curry College on Thursday, as well as meeting Clark University on Saturday, as part of Homecoming Weekend.



JOSH HARTMANN—THE TECH

Nathan A. Watson '95 manages to outrun his WNEC opponent Saturday, but alas, it was to no avail as the ball was blocked by the goalie. MIT went on to win the game, 4-1.



JOSH HARTMANN—THE TECH

Field Hockey Wins 3rd In a Row

By Cathy Mangion
and Meera Saini
TEAM MEMBERS

The women's varsity field hockey team captured its eighth win of the season by defeating Wheaton College on Saturday. Despite a sluggish start, the Engineers dominated most of the game. They relentlessly pressured Wheaton and gained momentum by scoring halfway through the first period off of a penalty corner. Co-captain Mary Beth Richards '94 scored the goal, assisted by Katherine Merrilees '97 and Cathy Mangion '95.

Both teams came out strongly after halftime, but the MIT defense and goalkeeper Meg Golden '97 shut down the Wheaton offense. Golden had her best game of the season and provided the turning point of the second half when she saved a penalty stroke attempt. Shortly afterward, Merrilees scored off of another penalty corner, with assists from Richards and Mangion.

MIT completely dominated the rest of the game, displaying good teamwork and strong execution of the players' various skills.

The Engineers currently have a season record of 9-4 and a New England Women's Eight conference record of 2-3. After a disappointing loss to Smith last week, the team has moved on to a three-game winning streak with wins against Elms and Pine Manor colleges. MIT defeated Elms 1-0 on a goal by Meera Saini '95, assisted by Ann Torres '96. Pine Manor was crushed 8-0 with contributions from the entire squad. The leading goal scorers are Merrilees and Carla Oshiro '95.

The defensive line-up of Pattie Hahn '96, Richards, Ellen Hwang '97, Wendy Silverburg '96, and Mangion have been extremely effective at shutting down the opponents' offense. Co-captains Wendy Russell '94 and Juintow Lin '95 have continually exhibited strong play and support, as well as by the entire MIT bench.

This week MIT takes on UMass-Dartmouth on Tuesday, followed by Nichols College on Thursday and Worcester Polytechnic Institute on Saturday.

Soccer Snuffs Curry, Bows to Babson

By Thomas Kettler
STAFF REPORTER

The women's soccer team won its ninth game, and second league game, on Thursday, defeating Curry College 4-1 at Steinbrenner Stadium.

In the first half, MIT kept the ball effectively on the opponents' half and scored all of its four goals. Becky Hill '95 made the first goal, seven minutes into the game. Chantal Wright '95 was the next scorer, with an assist from Hill. Thuy Le '97 scored five minutes later on an assist from Hill. Finally, Dionne Chapman '94 scored while being assisted by Brindha Muniappan '94 in the final minute of the first half.

In the second half, MIT did not score but prevented Curry from having many opportunities. Karen

Callaghan scored Curry's only goal seventeen minutes into the half. From then on, however, MIT kept them on the defensive.

Head coach Suzan Rowe commented, "We played a very good game. Our passing game was good in the first half. I felt we controlled the game in the first half. Very good team play."

On Saturday, goals by Julie Tienken and Christina Bostic accounted for the only scoring as Babson shut out the Engineers, 2-0. This tough loss brought MIT's season record to 9-2-1 and its league record to 2-2-1.

The women's soccer team has its final league game Wednesday against Brandeis University, and its last home game Friday versus Clark College.

UPCOMING HOME EVENTS

Tuesday, October 19
Men's Varsity Soccer vs. Tufts University, 3 p.m.
Field Hockey vs. Umass-Dartmouth, 7:30 p.m.

Wednesday, October 20
Men's JV Soccer vs. Phillips Exeter, 3 p.m.
Women's Varsity Soccer vs. Brandeis University, 3:30 p.m.

Thursday, October 21
Men's Varsity Soccer vs. Curry College, 3 p.m.
Women's Volleyball vs. Babson College, 7 p.m.
Field Hockey vs. Nichols, 7:30 p.m.

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