Three Robberies Reported

No One Harmed in Three Armed Robberies on Saturday Night

By Jeremy Hylton

Friday night, the Campus Police contacted Cambridge police, but have not open his wallet and thrown his money on the ground, the police said. One of the suspects also brandished a hand gun.

The victim had no money, and the suspect fled on foot toward Kendall Square. He is described as a black male, 5 feet 10 inches tall, thin 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 Greece 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 attacked a third victim on Amberst Alley near Burton House shortly after 4 a.m. The pair demanded the victim's wallet.

Robberies, Page 11

Minorities Join Faculty Slowly

By Rishi Shirvastava

In September 1991, Provost Mark S. Wrighton announced that MIT had increased its active minority faculty to 10. Since that declara-
tion, five minority professors were hired in fiscal year 1991, 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 problems 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 51. During this period, the number of recruited Asian Americans, who are 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 can get PhDs in given areas.

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 irresistible year-round industrial job offers and reinvented the need to increase

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, E23, and the Center for Cancer Research are scheduled to move into the new building by April 1994, according to Lawson.

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, one of the best in the nation,” according to Biemesderfer.

Construction, Page 11

New Bio Building Is On Schedule, Budget

By Rathy Annour

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 project is currently under budget and on schedule, he said.

In August, 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. Macomber said that 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, E23, and the Center for Cancer Research are scheduled to move into the new building by April 1994, according to Lawson.

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, one of the best in the nation,” according to Biemesderfer.

Construction, Page 11

INSIDE

• The Cross Products, Choralladies, Loga-
rhythms, and Musae sing for families.

Page 6
President Scolds Congress for Interfering with Somalia Policy

By Michael Morgan

WASHINGTON -- President Clinton warned Congress Monday against interfering with his efforts to rescue Haiti and Somalia and said he would not rule out the use of force in Haiti.

"I分期 clearly today that I would strenuously oppose any approch to the president's foreign policy powers," Clinton said in an inter- view published in The Washington Post.

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 role our mili- tary options there. He cited the pres- ence of 1,000 U.S. citizens, that Haiti would be "in our back yard" and the threat of a new flood of refugees.

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

Clinton's comments on presiden- tial authority were prompted by a new round of congressional propos- al to place restrictions on use of U.S. troops.

Senate Minority Leader Robert J. Dole, R-Kan., has offered an amendment that would require con- gressional authorization before troops could be sent to Haiti. The amendment was offered after a congressional proposal to require U.S. forces to be out of Somalia by December 31. But the space of amendments would have the degree of congressional amandments and dissatisfaction with the administration's handling of foreign policy.

Dole told a news conference that he was shocked when he learned in a telephone conversation earlier in the day about the proposed de- manding that the administration send representatives to Capitol Hill to "see the administration's foreign policy.

Clinton's Senate allies also were considering possible alternatives to the Dole and Nickles proposals, which were expected to be voted on as part of a larger defense and foreign policy bill.

While some fine-tuning of the proposals was possible, Dole said, "there is plenty of bipartisanship support" for his proposal on Haiti and Nickles's to restrict congressional support for Somalia's withdrawal.

"I think I have the votes," he said. Dole, who helped Clinton from defeat on his Somalia policy last week, said that he was trying to "micro-manage" foreign policy, return the country to isolationism or "impose a censure" on the president. He also said a congressional proposal to require a congressional vote before U.S. forces are committed to Haiti.

While Clinton expressed concern to him in private, Dole said that he had not made a decision on foreign policy. Dole said that he had no "uneasiness and dissatisfaction with the administration."

President Clinton warned Con-gress Monday against interfering with his efforts to rescue Haiti and Somalia and said he would not rule out the use of force in Haiti.

"I分期 clearly today that I would strenuously oppose any approch to the president's foreign policy powers," Clinton said in an inter- view published in The Washington Post.

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 role our mili- tary options there. He cited the pres- ence of 1,000 U.S. citizens, that Haiti would be "in our back yard" and the threat of a new flood of refugees.

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

Clinton's comments on presiden- tial authority were prompted by a new round of congressional propos- al to place restrictions on use of U.S. troops.

Senate Minority Leader Robert J. Dole, R-Kan., has offered an amendment that would require con- gressional authorization before troops could be sent to Haiti. The amendment was offered after a congressional proposal to require U.S. forces to be out of Somalia by December 31. But the space of amendments would have the degree of congressional amandments and dissatisfaction with the administration's handling of foreign policy.

Dole told a news conference that he was shocked when he learned in a telephone conversation earlier in the day about the proposed de- manding that the administration send representatives to Capitol Hill to "see the administration's foreign policy.

Clinton's Senate allies also were considering possible alternatives to the Dole and Nickles proposals, which were expected to be voted on as part of a larger defense and foreign policy bill.

While some fine-tuning of the proposals was possible, Dole said, "there is plenty of bipartisanship support" for his proposal on Haiti and Nickles's to restrict congressional support for Somalia's withdrawal.

"I think I have the votes," he said. Dole, who helped Clinton from defeat on his Somalia policy last week, said that he was trying to "micro-manage" foreign policy, return the country to isolationism or "impose a censure" on the president. He also said a congressional proposal to require a congressional vote before U.S. forces are committed to Haiti.

While Clinton expressed concern to him in private, Dole said that he had no "uneasiness and dissatisfaction with the administration."

President Clinton warned Con-gress Monday against interfering with his efforts to rescue Haiti and Somalia and said he would not rule out the use of force in Haiti.

"I分期 clearly today that I would strenuously oppose any approch to the president's foreign policy powers," Clinton said in an inter- view published in The Washington Post.

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 role our mili- tary options there. He cited the pres- ence of 1,000 U.S. citizens, that Haiti would be "in our back yard" and the threat of a new flood of refugees.

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

Clinton's comments on presiden- tial authority were prompted by a new round of congressional propos- al to place restrictions on use of U.S. troops.

Senate Minority Leader Robert J. Dole, R-Kan., has offered an amendment that would require con- gressional authorization before troops could be sent to Haiti. The amendment was offered after a congressional proposal to require U.S. forces to be out of Somalia by December 31. But the space of amendments would have the degree of congressional amandments and dissatisfaction with the administration's handling of foreign policy.

Dole told a news conference that he was shocked when he learned in a telephone conversation earlier in the day about the proposed de- demanding that the administration send representatives to Capitol Hill to "see the administration's foreign policy.

Clinton's Senate allies also were considering possible alternatives to the Dole and Nickles proposals, which were expected to be voted on as part of a larger defense and foreign policy bill.

While some fine-tuning of the proposals was possible, Dole said, "there is plenty of bipartisanship support" for his proposal on Haiti and Nickles's to restrict congressional support for Somalia's withdrawal.

"I think I have the votes," he said. Dole, who helped Clinton from defeat on his Somalia policy last week, said that he was trying to "micro-manage" foreign policy, return the country to isolationism or "impose a censure" on the president. He also said a congressional proposal to require a congressional vote before U.S. forces are committed to Haiti.

While Clinton expressed concern to him in private, Dole said that he had no "uneasiness and dissatisfaction with the administration."

President Clinton warned Con-gress Monday against interfering with his efforts to rescue Haiti and Somalia and said he would not rule out the use of force in Haiti.

"I分期 clearly today that I would strenuously oppose any approch to the president's foreign policy powers," Clinton said in an inter- view published in The Washington Post.

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 role our mili- tary options there. He cited the pres- ence of 1,000 U.S. citizens, that Haiti would be "in our back yard" and the threat of a new flood of refugees.

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

Clinton's comments on presiden- tial authority were prompted by a new round of congressional propos- al to place restrictions on use of U.S. troops.

Senate Minority Leader Robert J. Dole, R-Kan., has offered an amendment that would require con- gressional authorization before troops could be sent to Haiti. The amendment was offered after a congressional proposal to require U.S. forces to be out of Somalia by December 31. But the space of amendments would have the degree of congressional amandments and dissatisfaction with the administration's handling of foreign policy.

Dole told a news conference that he was shocked when he learned in a telephone conversation earlier in the day about the proposed de- demanding that the administration send representatives to Capitol Hill to "see the administration's foreign policy.

Clinton's Senate allies also were considering possible alternatives to the Dole and Nickles proposals, which were expected to be voted on as part of a larger defense and foreign policy bill.

While some fine-tuning of the proposals was possible, Dole said, "there is plenty of bipartisanship support" for his proposal on Haiti and Nickles's to restrict congressional support for Somalia's withdrawal.

"I think I have the votes," he said. Dole, who helped Clinton from defeat on his Somalia policy last week, said that he was trying to "micro-manage" foreign policy, return the country to isolationism or "impose a censure" on the president. He also said a congressional proposal to require a congressional vote before U.S. forces are committed to Haiti.

While Clinton expressed concern to him in private, Dole said that he had no "uneasiness and dissatisfaction with the administration."
Breast Cancer Activists Deliver Petition, Concerns to Clintons

By Amy Goldstein

The Washington Post

WASHINGTON

In the throes of breast cancer survivors and their supporters at the ellipse here Monday, Fred Mcricia 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 Syncane, 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.”

Mcricia, a novelist at avision, 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 preventing, 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 telling proof of date that they have become an effective lobbying bloc.

Two years ago, when a small delegation of breast cancer activists tried to greet 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 Mastography Day, encouraging the breast X-rays that often help detect the cancer early.

In response to lobbying pressure, federal subsidies for 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 leader 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 coalition.

Alliance sources disclosed Monday that Robert E. Hunter, the U.S. ambassador to NATO, on Oct. 8 began a two-day-visit to Sarajevo, an area that has been under heavy shelling in recent weeks.

While the shelling, coupled with a international relief conference “clearly indicate a new dynamic...that would have very grave consequences,” department spokesman Michael McCurry said.

The attack, 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 administrative official said, and the meeting will offer “a better test of NATO’s political will.”

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!

Are you tired of flickering fluorescent lights?

Have you been staring at 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 just 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.
Super Collider Project Must Continue

By Daniel Stevenson

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 dollars to be spent over the next century, it would be a great folly to abandon this leap by scrapping the SSC project.

While the scientific benefits of the SSC are immeasurable, at least one discovery is guaranteed by experiments at such high energies: 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 from accelerators are quite unexpected. The BFactory at the SSC, activated in the 1990s, 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 laureate Steven Weinberg, 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-scale spending in one single field limits research in other equally worthy areas. Though the $1 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.

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

UI Kirch G

Letters To The Editor

Shultz Confused United Nations, NATO

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

UI Kirch G

Super Collider Project Must Continue

By Daniel Stevenson

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 dollars to be spent over the next century, it would be a great folly to abandon this leap by scrapping the SSC project.

While the scientific benefits of the SSC are immeasurable, at least one discovery is guaranteed by experiments at such high energies: 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 from accelerators are quite unexpected. The BFactory at the SSC, activated in the 1990s, 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 laureate Steven Weinberg, 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-scale spending in one single field limits research in other equally worthy areas. Though the $1 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.

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

UI Kirch G

Letters To The Editor

Shultz Confused United Nations, NATO

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

UI Kirch G

The Tech, 32 Vassar Street, Cambridge, MA 02139-4307.

Letters to the editor are welcome. They must be typed, double-spaced and addressed to The Tech, P.O. Box 29, MIT Branch, Cambridge, Mass. 02139-4307, 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 cannot be held for the author's signatures, addresses, or phone numbers. Unsolicited letters will not be accepted. No more than one letter or cartoon will be printed anonymously without the express permission of the author. The Tech reserves the right to edit and 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.

To Reach Us

Electronic mail is the easiest way to reach any member of our staff. Mail to specific departments may be sent to the following addresses on the Internet: adtech@the-tech.mit.edu, newstech@the-tech.mit.edu, sportstech@the-tech.mit.edu, phototech@the-tech.mit.edu, cinetech@the-tech.mit.edu (circulation department). For other matters, and mail to general@the-tech.mit.edu, it will be directed to the appropriate person.
Management Consultants

Financial Institutions/

Services Practice

Cordially invites all interested students
to attend a presentation

Wednesday, October 20, 1993

5:00 pm in

Building 4, Room 159

We will be interviewing on campus Thursday, February 3.
If you would like to be considered for our closed interview schedule, please send resume to:
Susan Copeland, Recruiting Coordinator – FI/SP
A.T. Kearney, Inc.
153 East 53rd Street
New York, New York 10022
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 or 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.
Avant-garde jazz band is highlight of Boston scene

THE ARTS

October 19, 1993

ETHER/ORCHESTRA

Johnny D's

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 Ether/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 trumpets/fluegelhorns, 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-throttle, 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 Kohlhase offered a baritone sax solo that emphasized the full, "fat" tone of the big horn, giving the piece a certain authority. As Tchacek obviously intended. The piece (as Tchacek obviously intended).

The sound of the Ether/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 the Ether/Orchestra are involved in many side projects, which offer many opportunities to hear these talented musicians in various settings.

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, Kohlhase took over the spotlight and played a bari sax solo. Some- where in the midst of all this, the feel of the piece changed from structured to free. During Kohlhase'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 Kohlhase manipulated his horn to produce ever stranger effects. After an energetic climax, the bass laid down a staccato, "sequence" 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 Tchacek's appropriately named "Don't Lose Your Way." This featured the trombones playing a very fast vamp that soon obscured the individ- ual measures (i.e. repeated rhythmic units) of the piece. As Tchacek obviously intended. The piece 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 into 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 timpani 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 flute 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 Gers- hon. 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 Kohlhase on alto sax. He laid down an expres- sive interpretation of the melody, with the other horns providing a nice background. The meter of the piece was altered, and then Kohlhase delivered a dazzling alto solo. His playing was unrestrained, as he mined his

horns for many interesting sounds in very inventive sequences. He also hit some altissi- mo notes that seemed to be almost in the stratosphere! As the solo intensified, the horns similarly intensified their playing. The piece ended as Kohlhase 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, Kohlhase took over the spotlight and played a bari sax solo. Some- where in the midst of all this, the feel of the piece changed from structured to free. During Kohlhase'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 Kohlhase manipulated his horn to produce ever stranger effects. After an energetic cli- max, the bass laid down a staccato, "sequence" 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 Tchacek's appropriately named "Don't Lose Your Way." This featured the trombones playing a very fast vamp that soon obscured the individ- ual measures (i.e. repeated rhythmic units) of the piece. As Tchacek obviously intended.

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

To conclude the evening, the Orchestra performed Kohlhase'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 trombone and baritone. Interesting "dueling" trumpet solos were offered, followed by "dueling" trombone solos, with each player wielding a plunger's helper. This lead to a restate- ment of the opening melody to close the piece.

The sound of the Ether/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 the Ether/Orchestra are involved in many side projects, which offer many opportunities to hear these talented musicians in various set- tings. 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!
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 Haydn's noble High Baroque to twentieth century modernity before returning to the more formal language of the brass ensemble. The Festival Jazz Ensemble, under the direction of Elliott DeFiori, provided an energizing intermission, but often played too loudly, overshadowing his colleagues. Visiting 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 unconfident 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 are rooted in the 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 thematic combinations 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. Cohën'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 in its fourth 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-colloquial E-flat trio is less often played at least as a music critic than Robert Schumann wrote that the E-flat trio "presents across the face of the musical world like some angry poet in the sky."

The Raphael Trio's interpretative approach seemed to fit this better work than had the play. The group played with more personal-ity this time, and the violin tone seemed more natural for Schubert's music.

It was a particular joy to hear the excellent cellist Susan Salim 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 movements.

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 Schu bert's over-extended last movement rondo, holding the excitement through the very end. As desired, they were warmly rewarded by an enthusiastic ovation from the audience.

Family Weekend concert proves to be mixed bag

FAMILY WEEKEND CONCERT
Oct 14, 7:00pm
MIT Brass Ensemble
MIT Festival Jazz Ensemble
MIT Concert Band.

By Craig K. Chang

Saturday's Family Weekend concert in Kresge Auditorium was an exercise in the alternation between structure and improvisation. And the Con certo Band returned to the more formal language, but expanded on the Brass Ensemble's structure into a more evocative language of poetry. Gone were thin themes, whose evanescence masked the actuality of the music created for them.

As the energy of the Festival Jazz Ensemble died down, the Concert Band communi cated something more akin to the individualistic expressiveness of jazz than to the typical fare of a "concert band." Beginning with Gust av Holm's monumental First Suite for Military Band, the group demonstrated Holm's skill in using the concert band as a much richer instrument. Gone were thin themes, whose replacements proved to be voices with individual character. The performance benefited from the confident conducting of John Cortely, who argued on the many shades of lyricism that distinguished themselves from typically trite patterns of military marches. Elliot De Fiori's "Canticle" also offered us special voicing. The use of the entire flute section for the first movement created an ethereal, otherworldly effect.

But the most significant voices of expression, expression, and music came at the end of the concert, during Edward J. Madden's "Touchstones," a work set to the poetic words of John F. Kennedy. As President Viet reprinted excerpts from John F. Kennedy's writing, and then the Festival Jazz Ensemble delivered to us a stately ambiance. The performance benefited from the confident conducting of John Cortely. As you argued to the many shades of lyricism that distinguished themselves from typically trite patterns of military marches. Elliot De Fiori's "Canticle" also offered us special voicing. The use of the entire flute section for the first movement created an ethereal, otherworldly effect.

But the most significant voices of expression, expression, and music came at the end of the concert, during Edward J. Madden's "Touchstones," a work set to the poetic words of John F. Kennedy. As President Viet reprinted excerpts from John F. Kennedy's writing, and then the Festival Jazz Ensemble delivered to us a stately ambiance. The performance benefited from the confident conducting of John Cortely. As you argued to the many shades of lyricism that distinguished themselves from typically trite patterns of military marches. Elliot De Fiori's "Canticle" also offered us special voicing. The use of the entire flute section for the first movement created an ethereal, otherworldly effect.
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 both in 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 two times through next August.

All of the pieces were for sale, but don’t rush out to buy them. The price was $500 and up and did not seem to reflect the value of the works. 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 Gonzales’ “The Real Reason Why Giant Turtles Became Extinct,” which showed a dinosaur hungrily eating a giant tulip. MIT art students will have another opportunity to exhibit their artwork at the First Expressions gallery from Nov. 29 to Jan. 7.

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 Diplomas 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 unrewarding 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 Hyun-Yoon 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 skilled 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机械ized stampeding rhinoceroses. This was probably the reason the Dukakis left early.

The final performance of the evening was by Harvard’s Lincoln 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 may look forward to future performances. In the end, First Expressions seems to be an organization aiming to help young would-be professional performers know that they are not alone in their struggle to become professional musicians, as these type of performing opportunities would be quite valuable to their careers.

The Chorallaries (above) and the Logarthyrns (below) performed in 10-250 for Family Weekend.
Not much has changed with design engineers since the 60's. They're still the free thinking, creative force behind today's electronics innovations. But some things have changed. Dramatically.

Like the need for faster, cheaper, denser, more flexible logic devices. And software development tools that make them simple to design.

That's why we invented the Field Programmable Gate Array. And that probably accounts for why we're the fastest growing company in the programmable logic business.

Voted one of Fortune 100's fastest growing companies for the 3rd year running, Xilinx is looking for talented (and free thinking) engineers in the following areas:

- **DESIGN**: Perform detailed logic and circuit design of FPGAs and/or EPLDs.
- **CUSTOMER SUPPORT**: Provide technical support to users of Xilinx products and post sale support to Xilinx Sales and FAEs. Also provide support for testing and integrating Xilinx products.
- **SQA**: Develop and execute test cases and automatic test tools to ensure the overall quality of Xilinx software.

Please accept our invitation to learn more about the exciting future of programmable logic, because "the times they are a changin'," and Xilinx wants to make you a part of it! Join us at the

**SWE Career Fair • Saturday, October 23**

**XILINX**

The Programmable Logic Company

© 1993 Xilinx is a registered trademark and The Programmable Logic Company is a service mark of Xilinx, Inc. All other trademarks or registered trademarks are the property of their respective holders.

We are an Equal Opportunity Employer
Bio Building to Open in March

Construction, from Page 1

Built to accommodate the needs of today and tomorrow, Maconamer said.

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

The interior of the building was customized around the equipment and layout needed for cutting-edge research. But as more modern equipment becomes available, and at the faculty members come and go, 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 interior of 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 ditches 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. Maconamer Co., established in 1964, has taken six projects at MIT, including Rotch Library, Building E17, and the Marinus 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.

Come Join The Tech

EAT OUR CHAIRS.

SLURP OUR PIZZA.

RACE OUR EDITORS.

MEET OUR ICE CREAM.

COME BY W20-483 NEXT SUNDAY AT 6 P.M.

Special Student Airfares

London........$360
Paris.........$512
Guatemala...$425
Madrid........$630
Tokyo...........$909
Rio..............$981
Sydney.........$1137

All fares are Roundtrips. Some restrictions apply. Tax not included.

STAIR TRAVEL

You've Been There.

617-376-4623

87 AYX LAMBDA ST.
CAMBRIDGE, MA 02138

BIUR VICTIM.

This space donated by The Tech

NOMINATION TO THE MIT CORPORATION
FOR FINAL YEAR STUDENTS AND RECENT GRADUATES

DUE DATE: NOVEMBER 29, 1993

PLEASE TYPE OR USE A PEN AND WRITE LEGIBLY. We cannot use what we cannot read!

NOMINEE:
Last
First
M
Degree:
Year:

Address:

Day/Lab Phone:

Eve/Home Phone:

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

Name:
Phone:

Name:
Phone:

Name:
Phone:

ACTIVITIES, HONORS, AND AWARDS: We are interested in both academic and extracurricular achievements, either at MIT or through an outside organization. Please continue on the back or attach a separate sheet if necessary.

Activity, Honor, or Award

Dates of Participation

Positions Held (e.g., Pres., Treats.)

This space donated by The Tech

COMING BACK FROM VACATION:

I'll be here.......

Please leave a message.

I'm on vacation...

Please leave a message.

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.

Your name:

MIT Affiliation:

Last
First
M

Address:

Day/Lab Phone:

Eve/Home Phone:
When You’re Considering
An Analyst Position in Investment Banking,
Consider One More Thing

Consider the investment bank that is uniquely in tune with the abilities and aspirations of the people who comprise it. Where high professional standards are reflected in principled every day practices. Where the talent of each individual is an integral part of the team effort. And where those who choose to accept the challenges set before them grow both personally and professionally.

In short, consider the Investment Banking Division at Goldman Sachs.

Investment Banking Division
Financial Analyst Program
Information Session
Thursday, October 21, 1993
Bldg. 4, Room 163
6:00 p.m. - 8:00 p.m.

Undergraduates from all majors are welcome to attend.

Goldman Sachs, an equal opportunity employer, does not discriminate in employment on the basis of race, sex, color, national origin, religion, age, handicap, or sexual orientation.

---

### 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, 6:30 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.
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:

1. 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.

2. If a department recruits a minority professor through a regular position, the grant includes three planks:

- 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 appoint a minority with outstanding minority candidates.

- The initiative should not be interpreted as a quota program, said Jay 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."

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: Wongate, '87 Toyota stolen; WHH lost, Honda broken into, nothing missing.

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

Oct. 13: Bldg. 560, office supplies stolen, $160; vandalism to a computer; Bldg. 2-bicycle rack, bicycle stolen, $450.

PUT A LITTLE FUN IN YOUR LIFE.

Volunteer. The United Way Voluntary Action Center (VAC) can match your time and talents to satisfying, meaningful, fun activities. Whatever your time and talents, wherever you live, we can make the right match. Call the VAC at 617-422-6775

MINORITY CAREER FORUM

NEW ENGLAND

Thursday, December 2, 1993

The Hynes Convention Center, Boston, MA

10:00 a.m. to 4:00 p.m.

Minority Juniors and Seniors! Meet and Interview with over 50 leading employers! - FREE!

To register, send your resume to:

Crimson & Brown Associates, Inc.
1430 Mass Ave., Suite 1003
Cambridge, MA 02138
Tel. (617) 868-0161.

Registration Deadline: October 22

Indicate your top 3 industry preferences on the back of your resume. Be as specific as possible (e.g., investment banking, consulting).

BEAR STEARNS INVESTMENT BANKING

seeks to form

THE 1994 FINANCIAL ANALYST CLASS

Please join us on Wednesday, October 20 in Room 4-153 at 7:00 p.m. for a slide show presentation and discussion of undergraduate opportunities in Investment Banking at Bear Stearns.

Bear, Stearns & Co. Inc.

Atlanta / Boston / Chicago / Dallas / Los Angeles / New York / San Francisco / Geneva / Hong Kong / London / Paris / Tokyo

October 20, 1993
NOTICES

Forum, will be from 4 p.m. to 6 p.m. in Bates Theater in Building 135. Call 253-0006 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 Wednesday. Call (415) 433-4804 for information and registration.

OCTOBER 23
The Harvard Graduate School of Design will sponsor a colloquium on "Shaping Architectural Practices and Education" on the past, present, and future of architectural practice. Call 455-455 for Octo-
ber 23 to register.

OCTOBER 24
The Committee for Accuracy in Middle East Reporting in America will sponsor a working for college students examining the media coverage of the Middle East. The workshop will be held at Brandeis University at 6:30 p.m. The cost is $5. The workshop part of a meeting. Call 399-307 for more information.

The New England Coalition on Nuclear Policy will host a conference: "Shaping the Nuclear Debate. Call 492-3928 evenings for more

The IEEE Society for Social Implications of Technology is sponsoring a lecture on "Omnipresent Applications of Photovoltaics" at 4950 Solar for more information.

There will be a panel discussion on "Globalization of Ethics" at 7:15 p.m. at the Bay Area Solar Energy Association. This is sponsored by the IEEE Society for Social Implications of Technology.

SOLUTIONS

BOSTON UNIVERSITY

NOTICE

The Women's Forum is sponsoring a work-
shop, "Women's Development - What
Works, What Goes Wrong," from 12 noon to 1 p.m. in MIT. Call (617) 596-9166 for information.

OCTOBER 25
The IEEE Society for Social Implications of Technology is sponsoring "Why Under the Long Shadow: The Female Story" at 6:30 p.m. in room EF1-140.

COLOMBIA $255
At Swiss Bank Corporation - Capital Markets & Treasury - we depend on the exceptional skills, creativity and collabora-
tion of our colleagues. As a universal leading provider of sophisticated risk management products and solutions, opportunity and rapid growth are ahead for talented individuals who aspire to perform on a results-oriented team.

Our technologists use state-of-the-art computer hardware (next generation workstations) and software (next generation workstations) and software (next step, C++, COP, and relational databases) to give traders, portfolio managers and marketing teams access to vast amounts of information and analytical capability. Pioneering in the application of new and emerging technologies, our developers create and refine models to provide ongoing analyses of global financial securities. If you are intrigued by these challenges, please attend our campus presentation or contact Swiss Bank Corporation. Human Resources

Recruitment, 141 W. Jackson, Chicago, IL 60604. EOE M/F/D/V.

The Tech News Hotline 253-1541

How Well Do You Handle Risk?

At Swiss Bank Corporation - Capital Markets & Treasury - we depend on the exceptional skills, creativity and collabora-
tion of our colleagues. As a universal leading provider of sophisti-
cated risk management products and solutions, opportunity and rapid growth are ahead for talented individuals who aspire to perform on a results-oriented team.

Our technologists use state-of-the-art computer hardware (next generation workstations) and software (next generation workstations) and software (next step, C++, COP, and relational databases) to give traders, portfolio managers and marketing teams access to vast amounts of information and analytical capability. Pioneering in the application of new and emerging technologies, our developers create and refine models to provide ongoing analyses of global financial securities. If you are intrigued by these challenges, please attend our campus presentation or contact Swiss Bank Corporation. Human Resources

Recruitment, 141 W. Jackson, Chicago, IL 60604. EOE M/F/D/V.

This space donated by The Tech
tumbleweed-garden

Part-Time Microsoft Windows Developers Wanted
Softbridge is looking for Computer Science majors to work on a highly visible Microsoft Windows application. Candidates should have experience in C and the Windows SDK. Additional experience with YACC and compiler development is helpful.

Softbridge is located 3 blocks from the Alewife T Station. It is a great working environment. You will have private space, a 25-cent soda machine, and free use of the video machines.

Hours are flexible. A minimum of 8 hours per week on-site is required. Additional off-site work may be possible. Our rates are excellent for the right individuals.

Contact: Kathy O'Connell at Softbridge, Inc. 25 CambridgePark Drive, Cambridge, MA 576-2257 ext. 273.

The largest sperm bank in the United States is looking for donors.

The goal of the Cambridge California Cryobank, Inc. is to provide high quality sperm for artificial insemination. Requirements include good health, between the ages of 19 to 34, and a 9 to 12 month commitment.

Call for more information:
497-8646

COMPLETE MEDICAL SCREENING (ALL COSTS PAID) AND YOU EARN UP TO $105/WEEK IF QUALIFIED

"Who said..."

You can't get additional discounts at an Outlet Mall?*

...There's no such thing as a Free Lunch?

Well, you can get both, when you visit Howland Place.

When you visit, just present your Student or Faculty ID and receive extra discounts at Calvin Klein, Alexander Julian, Patagonia, GaltSand, The Discount Book Store, Jones New York and most of our 35 Outlet Stores.

And, you might get hungry while you're here, too, bring this ad and get a FREE Box Lunch!...no purchase necessary.

It's our way of saying Thanks for visiting Howland Place-the #1 Designer Mall in America.***

HOWLAND PLACE
DESIGNER OUTLET MALL
651 Orchard St., New Bedford, MA
1-800-HOWLAND (469-5263) (508)999-4100
Both offers valid thru October 31, 1993

*Excluding outlet stores.

Part-Time Microsoft Windows Developers Wanted
Softbridge is looking for Computer Science majors to work on a highly visible Microsoft Windows application. Candidate should have experience in C and the Windows SDK. Additional experience with YACC and compiler development is helpful.

Softbridge is located 3 blocks from the Alewife T Station. It is a great working environment. You will have private space, a 25-cent soda machine, and free use of the video machines.

Hours are flexible. A minimum of 8 hours per week on-site is required. Additional off-site work may be possible. Our rates are excellent for the right individuals.

Contact: Kathy O'Connell at Softbridge, Inc. 25 CambridgePark Drive, Cambridge, MA 576-2257 ext. 273.

The NoName Restaurant
on Boston's Historic Waterfront
since 1917

Come Enjoy Our Traditional Seafood
Right on the Boston Waterfront.

We are the oldest restaurant in Boston that has been under the same management.

We are reasonably priced, with the young in mind.

There is Plenty of
Free Parking
available 7 days a week.

We are located near the World Trade Center at 17 Fish Pier.

Takeout is also available
423-2705

Hours: 11:00 am - 10:00 pm, Monday through Sunday

"where the fish jump from the ocean into the frying pan"

*NJ Magpie
College Night Owl Specials
Only 4.95
Sunday thru Thursdays 9 to Midnight
* ITALIAN PUPU PLATTER FOR $2.50 choice of (3 items)
  Antipasti Slices; Calamari Fritti; Fried Zucchini; Calzones.
  Shrimp Scampi; Pollo Fritto; plus nightly chef's specials
  * CHOOSE OF CLASSIC PASTA DISHES
  * PROVOLONE OR RICOTTA
  * INDIVIDUAL PIZZAS WITH TOPPINGS
  * SCRUMPIOUS DESSERT WITH CAPPUCCINO OR EXPRESSO

JAPANESE AND CHINESE SPEAKING SENIORS INTERESTED IN WORKING IN TOKYO OR HONG KONG WITH MERRILL LYNCH
SEND A COPY OF YOUR RESUME AND ALONG WITH YOUR LEVEL OF fluency to:
CRIMSON & BROWN ASSOCIATES, INC.
1430 MASSACHUSETTS AVENUE, SUITE 1003
CAMBRIDGE, MA 02138
TOLL-FREE (617) 868-0181
DEADLINE: NOVEMBER 5, 1993
FREE FOR STUDENTS!

Crimson & Brown Associate presents the
Multi-Industry Information Session for Minority Seniors
hosted by The Boston Consulting Group
Merrill Lynch
Pfizer
Tuesday, October 26, 1993
6:30 - 9:00 PM at The Charles Hotel
Harvard Square, Cambridge, MA
REGISTRATION: Send your resume by October 25 to Crimson & Brown
Associate, 1430 Mass. Ave., #103, 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.

CAREER OPPORTUNITIES
Information Systems Management
We're looking for a few highly motivated people with a strong background in computer related disciplines who want a career in Information Systems Management.
If you're the kind of person who's interested in rotational assignments, exposure to senior management, structured classroom development, and you like the idea of having input into the direction of your career, the ACCENT Program may be the right opportunity for you.
Feature Benefits
✓ Very competitive salary
✓ Young corporate culture
✓ Friendly work environment
✓ Relocation reimbursement

Come talk to our representatives at the Society of Women Engineers' Career Fair
Saturday, October 23, 1993

The Travelers
You're better off under the Umbrella.®

October 19, 1993

Velez to Appear On Oct. 25
juliette 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 override 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 President'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 1-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 statement of interest. Applications will be evaluated by a subcommittee of the faculty co. The deadline for applications is Nov. 15. Please return your application materials to the Office of the President, MIT.

The American Red Cross Blood Services - Northeast Region has reopened its Clinical Testing Service at a new location on Oct. 19. For current information, please call 536-3557.
The Behavioral Medicine Program of the Cambridge Hospital sponsors short-term prevention seminars throughout the year to help with anxiety, stress, panic, asthma, depression, smoking cessation, weight management, pain, headaches, and social anxiety.

COUNSELING
Today, more than two million men and women are demonstrating by their person- al example that alcoholism is an illness that can be treated. If you have an uncer- tainty whether you or someone you care about might be alcoholics, or if you might be out of control, please call the Alcoholics Anonymous, Box 617, 577-1111. Alcoholics Anonymous is a volunteer, non-profit organization dedicated to helping those who have a drinking problem through a network of meetings and groups. A meeting will be held at the Alcoholics Anonymous in the Little House on Oct. 23. The meeting will be held from 7:00 to 8:00 p.m. at the Alcoholics Anonymous in the Little House on Oct. 23. The meeting will be held from 7:00 to 8:00 p.m. at the Alcoholics Anonymous in the Little House on Oct. 23. The meeting will be held from 7:00 to 8:00 p.m. at the Alcoholics Anonymous in the Little House on Oct. 23. The meeting will be held from 7:00 to 8:00 p.m. at the Alcoholics Anonymous in the Little House on Oct. 23. The meeting will be held from 7:00 to 8:00 p.m. at the Alcoholics Anonymous in the Little House on Oct. 23. The meeting will be held from 7:00 to 8:00 p.m. at the Alcoholics Anonymous in the Little House on Oct. 23. The meeting will be held from 7:00 to 8:00 p.m. at the Alcoholics A...
Teachers have the power to wake up young minds—
to make a difference. 
Teach for that power. Be a hero.

To find out how to become a teacher, call 1-800-45-TEACH

FREE! Airline Reservations & Ticketing Service

Thomas Cook CRIMSON TRAVEL
One Broadway • CAMBRIDGE

THOMAS COOK/CRIMSON is an official authorized agent for all airlines and there is no extra charge when you pick up your tickets at THOMAS COOK/CRIMSON!

PURCHASE YOUR PASSPORT PHOTOS AND EURAIL PASSES FROM US

IF YOU’RE TRAVELING ON ANY OF THESE AIRLINES...
American, United, Continental, Delta, TWA, Northwest, USAir,
British Air, Qantas, Air Canada, Iberia, Lufthansa, Swissair,
Air India, El Al, Icelandair, Alitalia, Aer Lingus, Vesa, or even shuttle flights.

AVOID LONG LINES AT THE AIRPORT, MAKE YOUR RESERVATIONS AND PICK UP YOUR TICKETS AT THOMAS COOK/CRIMSON.

3M

3M is a diverse, worldwide company with a broad range of innovative, high quality products and services. We are a multi-
technology company with operations in more than 50 countries, and sales in more than 100. If you are looking for a career offering the freedom to take risks with opportunity to succeed, we are looking for you.

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./Ph.D.
Chemical Engineering S.B./S.M./Ph.D.
Materials Science S.B./S.M./Ph.D.
Mechanical Engineering S.B./S.M./Ph.D.
Computer Science and Engineering S.B./S.M.
Electrical Engineering S.B./S.M.

Sign up with your department or at the Placement Office.

Scholarship Opportunities to Study in Germany

DAAD Annual Grant Competition
(German Academic Exchange Service)

DAAD (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.

The Tech  Page 17
At QUALCOMM,
you get your own office
and set your own hours.

"Then you get to prove
you're worth it."

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

What kind of company works like that? Find out for yourself.

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

It’s interesting what happens when you give extraordinary people an extraordinary amount of autonomy and support. They innovate like crazy. Then their company takes off and grows like very few others have.

Case in point: San Diego’s own QUALCOMM. We’ve gone from 8 employees in 1985 to over 750 today. That makes us one of America’s fastest growing high-tech companies.

It also doesn’t hurt to have the company launched by communications visionaries like Dr. Irwin M. Jacobs and Dr. Andrew J. Viterbi.

The trick, of course, is to keep the entrepreneurial spirit flourishing despite phenomenal growth. That’s why we give our engineers as much freedom and encouragement as possible. This includes an open door policy company-wide, the latitude to set your own hours, the private space provided by your own office, and more.

In response, QUALCOMM people have spearheaded many of our industry’s most challenging technologies. Among them are mobile satellite communication networks, dual mode (analog and CDMA) mobile and portable phones, VLSI products, full-custom ASIC design, low earth orbit satellites, and more.

We’ll throw in the ocean—free.

Along with a highly stimulating work environment, you’ll also enjoy the Southern California lifestyle, which features one of America’s most temperate climates. And QUALCOMM is less than a mile from the Pacific Ocean.

If you’re working towards a degree in Electrical/Electronics Engineering, Computer Science, Computer Engineering, Physics, Math or Manufacturing Engineering, be sure to attend our special preview the night before our on-campus interviews. You may also mail, fax or send us your resume with transcripts by internet, QUALCOMM, Human Resources, Dept. CPSMIT (indicate Dept. code on both cover letter and envelope), 6855 Lusk Blvd., San Diego, CA 92121. FAX: (619) 658-2102. Internet: jobs@qualcomm.com Or call our Jobs Hotline at (619) 550-8888. Equal Opportunity Employer.

Next generation digital communications.
And the next.
**SPORTS**

**Men's Soccer Downs WNEC, 4–1**

*By Dan Wang*

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 let it. Samuel Piroman '96 scored two goals in the first two minutes, the first on an assist by Jason Grzeski '94 and the second on an assist by Nathan Watson '95. Twenty minutes later, David Roberts '95 increased the gap to 3–0, with another assist by Grzeski. 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 Saturday, as well as visiting Clark University on Saturday, as part of Homecoming Weekend.