

## MIT Unchanged In Minority PhDs

By Daniel C. Stevenson  
ASSOCIATE NEWS EDITOR

Despite an increase in overall graduate student enrollment, the percentage of underrepresented minority graduate students at MIT has not significantly changed over the last two decades, according to Associate Dean of the Graduate School Isaac M. Colbert.

On a national level, the number of doctorates earned by minorities increased by 27 percent over the past decade, according to a study released last month by the American Council on Education. However, the study, which was reported in an article in *The New York Times*, also showed that degrees awarded to blacks dropped by 9 percent and degrees awarded to black males fell by 20 percent.

The number of doctorates awarded to American Indians doubled to 0.6 percent in the 10-year period, while Latinos posted a 41 percent gain. Asian-Americans accounted for 3.2 percent of doctorates issued in 1992, up 1.9 percent from 1982, according to the study.

Underrepresented minorities are

those minorities whose representation is less than the national demographics. They comprise 3.8 percent, or approximately 200, of the 5024 graduate students at MIT, Colbert said.

### No change for 20 years

At MIT, "trends are flat" for students from underrepresented groups who are in graduate degree programs, Colbert said. Increases in minority enrollment have been offset by increases in the entire graduate student population.

MIT has "not yet reached the level of representation that we had 20 years ago," Colbert said. The graduate program is "struggling to get back" to the levels of the early 1970s.

"We really have to do better in terms of providing opportunities" for African Americans and other underrepresented minorities at MIT, Colbert said. "If there are any excellent students of color out there, we ought to be able to attract them," he said, referring to both underrepresented black and Latino students.

Compared to other colleges,

PhDs, Page 10

## SSC Falls Victim To Politics, Money

By Ramy A. Arnaout  
ASSOCIATE NEWS EDITOR

Congress' decision to cut the funding to complete the construction of the Superconducting Super Collider last October dealt a heavy blow to particle physics research, both at MIT and around the nation.

"The physics community felt that [the SSC] was extremely important for research into the most fundamental [physical] interactions," said Henry W. Kendall, J. A. Stratton professor of physics. "It had a design that would help it solve some of the outstanding problems in physics."

According to Vincent D. Rose '94, an astrophysics major and president of the Society of Physics Students, "The real cost is the trend that it reflects that the U.S. government is investing less in science" and taking less interest in it.

Overall, the SSC was the unfortunate victim of a variety of problems, which included a sluggish economy, federal budget reallocations, public misunderstanding, and difficulties in "big science," according to the physics community.

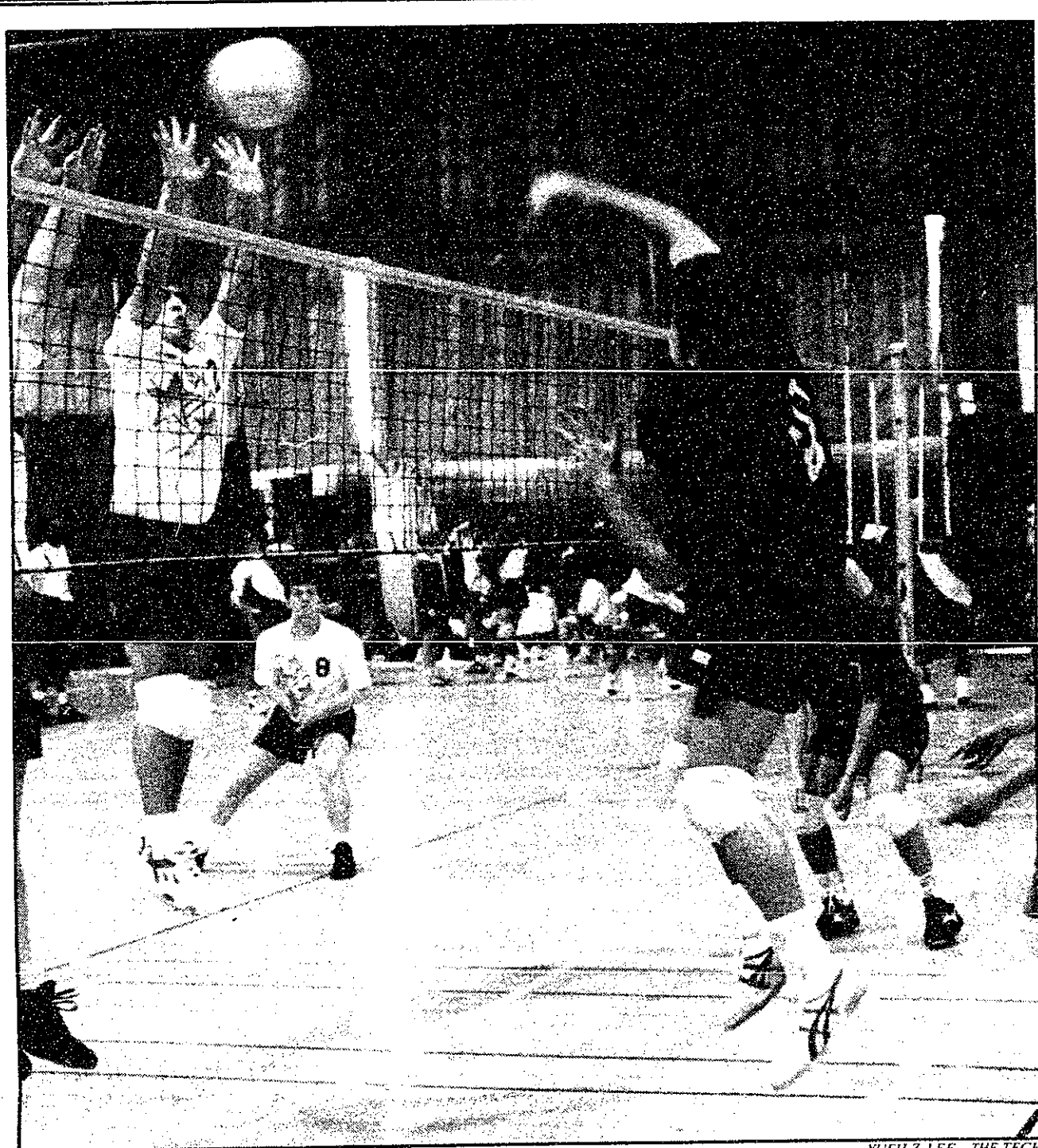
The cancellation of the SSC "was a disaster to high-energy physics because it has shut off a path to the future," said Institute Professor Jerome I. Friedman. Friedman shared the 1990 Nobel Prize in Physics with Kendall and Canadian Richard E. Taylor for the discovery of quarks, which are among the simplest and most important of elementary particles.

The SSC was designed to investigate the fundamental nature of matter by smashing together extremely high-energy subatomic particles and observing the results. As these particles split apart, they release energy and form other fundamental particles. These are observed when they hit highly sensitive detectors.

When subatomic particles collide, the energy released is strong enough to break the bonds between the even smaller particles that are the most basic components of the universe.

Physically, the proposed SSC would have been an 86-kilometer

SSC, Page 9



Cenk Sumen '94 of the men's volleyball team spikes the ball against the blocking defenders during the New England Club Volleyball League Tournament. MIT finished pool play undefeated 8-0, before bowing to the University of Connecticut in the semifinals.

## Coretta Scott King to Speak Friday

Event Marks MIT's 20th Annual Commemoration of M.L. King Jr.

By Daniel C. Stevenson  
ASSOCIATE NEWS EDITOR

On Friday, Coretta Scott King, widow of slain civil rights leader Rev. Martin Luther King Jr., will speak at MIT as part of the 20th annual MIT celebration of the life and work of her husband.

King, who is president and chief executive officer of the Martin Luther King Jr. Center for Nonviolent Social Change, will speak in Kresge Auditorium about "The Movement for Economic and Social Justice: 1994 and Beyond." Her talk is part of a program which includes readings and performances in Lobby 7 and a symbolic march from Lobby 7 to Kresge.

The program in Lobby 7 begins at 9:45 a.m. and includes a musical and dance presentation choreo-

graphed by Robin Offley, administrative assistant in the admissions office. Additionally, there will be readings and recitations by members of the MIT community, according to Arnold R. Henderson Jr., assistant dean for Student Assistance Services.

The march begins at 11:45 a.m., and participants will walk four abreast, as Rev. King marched in the 1960s.

At noon, President Charles M. Vest will speak, then Coretta Scott King will speak.

"We're trying to create better understanding among people here and the different groups at MIT. ... I've asked all of the people and all the speakers to frame their comments about reaching out to each other," Henderson said.

The extensive program is an "opportunity for this whole community to be able to communicate and value differences," Henderson said.

"Each year we have a distinguished person come from outside the community to commemorate Martin Luther King and his contributions and the way it impacts on MIT," said Professor of Physics Michael S. Feld, an organizer of the event.

This year's event "represents the 20th year that we have commemorated Dr. King's dream, and that is why we felt it was important to bring Mrs. King to MIT," said Professor Leo Osgood, another program organizer.

"Having her to commemorate

King, Page 10

## Bone Marrow Drive to Be Held for Young Child with Leukemia

By Andy Stark  
STAFF REPORTER

There will be a bone marrow drive at MIT on Mar. 4 to try to find a match for two-year-old Patrick McDonough, a leukemia patient who needs a transplant. The drive, which will be in La Sala de Puerto Rico in the Student Center, falls during National Bone Marrow Drive Week.

Craig Venezia, assistant communications console operator of Physical Plant, is helping to organize the drive, beginning with a meeting today in Room 66-148 at 4:30 p.m. Volunteers are needed to "try to get a small campaign together," to promote the drive and prepare for it, Venezia said.

Venezia does not know McDonough, but he decided to plan the upcoming drive after running a similar one for his nephew last month.

The initial step in trying to find a match for McDonough is to take two tablespoons of blood from potential donors. The blood is tested for a match of four out of the six antigens, specific genetic markers which are unique to each person. Donors with successful matches are called back for further testing. The overall chance of finding someone whose marrow Patrick can use is less than one in 20,000, Venezia said.

In addition, records of all donors' antigens will be entered into a national reg-

istry's data banks, where they may match someone in need of a bone marrow transplant in the future. However, some doctors believe that a perfect match is not even possible.

If a close match is found after the second test, doctors would then extract bone marrow from the hip of the donor to inject into the patient.

McDonough would have all of his own cancerous marrow drained. With no bone marrow, McDonough would have to stay in a Clean Room — a carefully ventilated and protected room — to assure that he does not get infected with even the slightest illness.

The donor would only spend about one

day in the hospital. "It's no big deal" for the donor, Venezia said. "If you see what those kids go through you'd do anything for them."

The transplant has the greatest chance of success when the patient is in remission, meaning that the cancer is not active. This is when the chemotherapy is most likely to kill all the cancer.

McDonough is currently in his first remission, but doctors do not know exactly how long he will remain in this condition. Testing for the four-antigen match takes three weeks, and testing for a full match takes up to another month. Thus, it is essential to hold the marrow drive soon, Venezia said.

# WORLD & NATION

## Islamic Guerrillas Kill Four Israeli Soldiers

THE WASHINGTON POST

JERUSALEM

Islamic guerrillas in southern Lebanon killed four Israeli soldiers and wounded five Monday in a daylight ambush against an armored patrol that brought Israeli retaliation with artillery and rockets.

The Iranian-backed Hezbollah fundamentalist organization said it carried out the ambush to mark the second anniversary of the assassination of its leader, Sheik Abbas Musawi, who was killed by an Israeli helicopter raid.

Israel's military chief of staff, Ehud Barak, told reporters the patrol was ambushed as it made its way through dense terrain near Sojoud in a portion of southern Lebanon held by Israel.

The armored patrol was attacked by light weapons and rocket-propelled grenades from close range, joined by missiles from farther away. The attack was followed by an hour-long battle as Israel called in helicopters, planes and artillery.

News reports from Lebanon said Israel attacked three villages a few miles north of the ambush site, but there were no immediate reports on the extent of casualties from the retaliatory attacks. Reuter said the villages hit by Israeli airstrikes included Jarjou and Ain Qana, both northwest of Sojoud, and Mlita, in the Iqlim Toufah area, a mountainous ridge held by Hezbollah.

## Discovery Astronauts Frustrated In Effort to Launch Satellite

THE WASHINGTON POST

CAPE CANAVERAL

Bedeveled by technical snags, the space shuttle Discovery astronauts gave up trying to launch a cantankerous satellite Monday. But officials said the device, anchored to the shuttle's robot arm, still managed to demonstrate a promising new technique for producing high-speed semiconductors.

Frustrated in their work to launch the Wake Shield Facility satellite, the U.S.-Russian crew enjoyed a late-afternoon call from President Clinton, who praised the mission as a step toward a jointly operated space station later this decade.

"We're going to do everything we can to keep supporting the space program and the space station," Clinton said from mission control in Houston.

"I hope what America is seeing of you today, particularly the cooperation between the United States and Russia," he said, "... will strengthen the support among the American people for the space program and the space station in particular."

Floating in front of Russian and American flags on the wall of Discovery's lower deck, the six-member crew thanked the president for his support. They called the 60th shuttle mission a success despite technical problems that prevented them from launching the \$12.5 million Wake Shield.

## Opposition Candidate Wins Costa Rican Presidency

LOS ANGELES TIMES

SAN JOSE, COSTA RICA

Ending the most bitter election in modern Costa Rican history, voters Sunday chose as their next president the 39-year-old son of a national hero who had to overcome old murder allegations to stay in the race.

Opposition candidate Jose Maria Figueres appeared well on his way to defeating businessman Miguel Angel Rodriguez of the ruling Social Christian Unity Party, early returns showed. Rodriguez conceded Sunday night, pledging to heal the deep wounds opened by the acrimonious campaign.

The official Supreme Electoral Tribunal released partial results that gave Figueres, trained at both West Point and Harvard, a slim victory margin of 2 to 3 percentage points.

## WEATHER

### Winter Weather Woes

By Michael Morgan  
STAFF METEOROLOGIST

As we enter what often is the snowiest part of the year, it looks as if our recent break with winter weather will end. A cold anticyclone to our north will advect colder air into southern New England today and Wednesday. Meanwhile, a relatively weak cyclone will develop to our southwest and head east along a strong frontal zone - passing south of our area. This is a classic setup for a heavy snow event in Boston - sufficient cold air and disturbance along a front to provide the lift and precipitation. Another more vigorous disturbance will follow the first, but its track should bring it to our west on Thursday - allowing enough warming to change the snow to sleet and freezing rain and perhaps all rain.

**Today:** Cloudy and cold with snow developing. Accumulations of 1 to 3 inches by dark. High 20°F (-7°C). Winds north 10 mph.

**Tonight:** Cloudy with snow becoming steadier and heavier. Winds northeast 10 - 15 mph. Low 15°F (-9°C). Accumulations by sunrise of 6 to 10 inches.

**Wednesday:** Cloudy and continued cold with snow continuing. Additional accumulations likely. Snow may mix with sleet (ice pellets) and freezing rain toward dark. Winds northeast or east northeast 5 to 10 mph. High 27°F (-3°C).

**Wednesday night:** Cloudy and cold with occasional snow, sleet, and freezing rain. Low 20 - 25°F (-7 to -4°C).

**Thursday:** Cloudy with snow and/or rain showers. Cool. Precipitation may become steadier later in the day. High 33 to 40°F (0 to 4°C). Low around 30°F (-1°C).

# U.S., Allies Preparing Plan To End Siege of Sarajevo

By Doyle McManus  
LOS ANGELES TIMES

WASHINGTON

The Clinton administration and its European allies are moving toward a decision to lift the siege of Sarajevo by demanding the removal of all artillery from the city and surrounding territory and enforcing the demand with military power, senior U.S. and European officials said Monday.

President Clinton's top foreign policy advisers have prepared a U.S. proposal for the North Atlantic Treaty Organization that centers on an ultimatum to all forces in the Sarajevo area to give up their heavy weapons, including the Serb artillery that has pounded the city for months, killing hundreds of civilians.

The plan, which also includes options for air strikes and other military action to enforce the ultimatum, was presented to Clinton late Monday night in Shreveport, La., by Anthony Lake, his national security adviser, a White House official said.

If Clinton approves the plan, as his aides expect, the United States will present it at a North Atlantic Treaty Organization meeting in Brussels, Belgium, Wednesday.

In another step toward military action, Britain — which previously had argued against NATO air strikes — said that it now is convinced that some use of force probably is necessary. "The balance of risk and benefit has changed," Foreign Secretary Douglas Hurd said. He said that the allies have moved "a step forward toward using force."

France and Germany also joined

in support of air strikes or other action against the Serb guns. The European Union, which includes most of NATO's European members, declared that the alliance's goal should be "the immediate lifting of the siege of Sarajevo using all means necessary, including the use of air power."

However, Canada, another NATO member, said Monday that it is opposed to air strikes. So did Russia, which is a member of the U.N. Security Council, but not of NATO.

The U.S. proposal does not call for immediate retaliation against the Serbs for Saturday's attack — an idea officials considered but rejected.

Instead, the Security Council would formally demand that the Muslim-led Bosnian government and the Bosnian Serbs both remove all "heavy weapons," including tanks and artillery, from Sarajevo and its surroundings, one official said. NATO would develop plans to remove or destroy any heavy weapons that remained past a deadline, he said.

"The idea is to end the siege and the main instrument of the siege has been the heavy weaponry," he said. "The main difficulty is figuring out how to remove the weapons in a way that is effective and remains effective."

The plan includes a proposal to provide U.N. forces in Sarajevo with advanced U.S. radar devices, which can pinpoint sources of artillery fire and direct air strikes or other counter-fire against the guns.

If those radar devices are provided, they apparently would be manned by European troops, not by

Americans. "We have not changed our policy of not putting U.S. troops on the ground," one official said.

The immediate spur for the accelerated discussion of allied military action was Saturday's artillery attack against an outdoor market in Sarajevo that killed 68 civilians and injured 200. But officials said that the tragedy was merely the final step in a long escalation of Serb bombardments that have made a mockery of the Western powers' frequent warnings against attacks on Sarajevo.

Clinton, during a speech in Houston, decried the shelling of the marketplace as "an outrageous attack on innocent civilians."

"Our government is talking with our allies about what steps ought to be taken in response not only to this outrage, but to the possibility of future attacks on innocent civilians," he said.

The president urged the allies to be ready to enforce their warnings with action. "I don't think we should have any more empty threats," he said.

Secretary of State Warren Christopher told the news media that NATO would "decide on a course of action, on an overall strategy within the next few days." And Defense Secretary William J. Perry, at the Pentagon, said the United States would give NATO "a concrete set of proposals."

Perry noted that military planners believed bombing raids were often ineffective against artillery, but added: "We're trying to consider it in ways that minimize the problems and the limitations of air strikes."

# Clinton Announces Tough Federal Budget for 1995

By James Risen  
LOS ANGELES TIMES

WASHINGTON

President Clinton Monday unveiled an austere federal budget for 1995 that calls for elimination of 115 long-established programs, significant reductions in defense and most domestic outlays and only slight increases for the administration's top priorities.

The administration's \$1.52 trillion budget is designed to advance the president's agenda within the modest bounds permitted by tough new spending caps, while still meeting the deficit reduction targets included in the economic plan passed by Congress last August.

Yet the funding shifts and program curtailments it proposes are certain to provoke bitter struggles among affected interest groups and their allies in Congress. Liberal Democrats already are accusing Clinton of failing to honor his campaign promises to reverse the effects of 12 years of Republican rule and reinvigorate social spending.

Clinton, speaking to a business group in Houston, said that the new budget demonstrates that "we mean business" about bringing down the federal deficit. "It's the toughest budget on spending cuts that Congress has yet seen," the president declared.

The White House estimates that its budget will leave the government with a deficit of \$176 billion next year, down from \$235 billion this year. Next year's projected shortfall is far below the \$305 billion estimate made a year ago.

The numbers could change yet again: the budget reflects very little of Clinton's health care and welfare reform initiatives, which will be

dealt with in separate legislation. Those programs could significantly alter the spending and deficit outlook.

Leon E. Panetta, director of the White House Office of Management and Budget, said that the bulk of the reduction in the projected 1995 shortfall is attributable to passage last year of Clinton's economic plan, which raised taxes and cut spending in an effort to improve the long-term health of the economy.

"This is the most consistent deficit reduction effort in 40 years," Panetta said during a White House news conference. "This is a budget intended to keep the nation, our economic recovery, and the investment strategy the president began last year on track."

Although the president and his lieutenants outlined their budgetary objectives in expansive terms, Clinton's second budget really represents a standstill spending plan for a government caught in an ever-tightening fiscal vise. It proposes a total of \$30 billion in cuts in discretionary domestic outlays in 1995, partly offset by \$16 billion in new spending on other domestic programs.

For example, to find money for such priorities as the Head Start preschool program, the hiring of 100,000 new police officers and an expanded job training and youth apprenticeship initiative, Clinton wants to reduce funding for mass transit systems by 25 percent, sharply scale back energy assistance for the poor and stop funding construction of public housing units.

Most of the net savings projected by Clinton's budget would come from reductions in the defense budget, as the Pentagon continues to adjust its operations to the realities

of the post-Cold War world. Domestic departments, in contrast, would use most of the funds generated by cuts in some of their programs to pay for increases in others.

Clinton has been forced by the spending caps in last year's deficit agreement to draft a budget that calls for a slight decline in total "discretionary" outlays for defense and domestic programs. Discretionary spending, at \$542 billion, accounts for roughly a third of the total federal budget.

The remaining two-thirds of the budget, some \$976 billion, is allocated to "mandatory" spending: benefits paid under Medicare, Medicaid, Social Security and other entitlement programs and interest on the national debt. Those outlays are not subject to the annual appropriations process and will continue to grow under Clinton's spending plan.

In fact, administration officials said their new budget provides fresh evidence that health care costs are now the main culprit in driving the deficit, underscoring the need for comprehensive health care reform. They said they believed the looming battle over health care reform would dominate the budgetary and economic agendas for 1994.

Since the administration is not proposing any broad new taxes, the budget battle in Congress is expected to be less brutal than last summer's struggle over Clinton's five-year economic plan. Still, the 1995 budget contains a few revenue-raisers: Clinton wants to quadruple the federal cigarette tax to 99 cents a pack to help pay for health care reform and he is proposing \$1.5 billion in new fees paid by gun dealers, national park visitors and other users of federal services.

# Optimism Abounds as Peres, Arafat Resume Stalled Talks

By Kim Murphy  
and Mark Fineman  
LOS ANGELES TIMES

CAIRO, EGYPT

Attempting to break through more than a week of bickering and recriminations that have stalled the Middle East peace process, Palestine Liberation Organization chairman Yasser Arafat and Israeli Foreign Minister Shimon Peres began another round of private negotiations Monday night, and officials were optimistic they would make some headway on an agreement for Palestinian self-rule.

Peres and Arafat began their discussions in Cairo late Monday, providing signs of optimism after several days of charges and countercharges raised questions

about whether the two sides, deadlocked over a plan for Palestinian autonomy in Jericho and the Gaza Strip, even had anything to discuss.

"We came with the best of intentions, to write an agreement. We didn't come to bargain, to argue. We feel very responsible, and may I say that we have made progress and we intend to go ahead," Peres told reporters after meeting with Arafat.

The two leaders, along with their delegations, were scheduled to continue informal discussions through the night and again Tuesday. They announced the appointment of two small working groups, each composed of three delegates from each side, to begin plowing through the remaining points of dispute.

Egyptian Foreign Minister Amr

Moussa said it appeared the two sides made progress on the deadlock that has delayed for weeks the scheduled withdrawal of Israeli troops from the occupied Gaza Strip and West Bank town of Jericho.

"It could be days away, but it could also be a little longer, because there are a lot of details to work out," he said, adding that the opening meeting "confirmed the intention of the two parties to reach an agreement."

Arafat, who had initially threatened not to come because of the slim prospects for an agreement, met first with Egyptian President Hosni Mubarak, who had urged Arafat to at least attempt to make some progress toward breaking the deadlock, even if no final agreement is signed.

# CBO to Rule Health Premiums Must Be Included in Budget

By David S. Broder  
and Dana Priest  
THE WASHINGTON POST

WASHINGTON

Apprehensive White House officials said Monday night they expect the Congressional Budget Office to rule Tuesday that billions of dollars in required insurance premiums in President Clinton's health care plan must be included in the federal budget.

The decision would not change the Clinton health plan but it is a public relations blow the White House desperately sought to avoid.

"The Republicans will jump all over this and say we're increasing the budget by 25 percent and putting through the biggest tax increase in history," a senior administration official said.

Separately, the CBO, which is the agency that Congress uses to measure the budget impact of bills, also will rule Tuesday on whether the Clinton financing plan adequate-

ly covers the cost of universal health care. White House and key Democratic members of Congress predicted that CBO will cautiously endorse the administration assertion that premiums, higher cigarette taxes and savings in other health programs will be enough to cover the cost and leave a small amount for deficit reduction.

Others outside the administration said CBO was going to challenge the cost estimates, which would be a further blow to prospects for the Clinton plan.

Although the CBO is a congressional agency, so far its estimates and rulings have been accepted by the Clinton administration as gospel. Because of its status, administration officials worked frantically to convince the CBO to keep the health plan off-budget. Until recently, they thought they had prevailed.

Indeed, in early December The Washington Post quoted congressional sources as saying that CBO had agreed to keep the bulk of the

spending included in the president's plan off the federal budget.

CBO Director Robert D. Reischauer declined to comment.

If the advance reports on the testimony Reischauer will give Tuesday afternoon to the House Ways and Means Committee are correct, CBO will not use the word "taxes" to describe the payments all employers would be required to make to cover 80 percent of the cost of their employees' health coverage.

Rather, they would be classified as one of the "miscellaneous or offsetting receipts," akin to grazing and mining fees and other payments the government receives from people who derive specific benefits in return for these assessments. Medicare Part B payments also go into this category. It was not immediately clear under the CBO plan whether the accounts would be displayed as part of the traditional unified budget or separately in a special budget category or appendix.

# Past, Present Surgeon Generals Endorse Secondhand Smoke Bill

LOS ANGELES TIMES

WASHINGTON

U.S. Surgeon General Joycelyn Elders and five of her predecessors added their endorsement Monday to a Clinton administration-backed plan to protect Americans from the dangers of secondhand cigarette smoke by severely restricting smoking in most of the nation's public buildings.

Legislation introduced by Rep. Henry A. Waxman, D-Calif., would prohibit smoking in public buildings used regularly by more than 10 people unless separately ventilated rooms were provided for smokers.

Waxman's subcommittee on health and the environment — part of the House Committee on Energy and Commerce — held a hearing Monday on the bill, known as the Smoke-Free Environment Act of 1993.

Last year, an Environmental Protection Agency study identified secondhand smoke as a deadly carcinogen and blamed it for 3,000 lung cancer deaths annually in adults and as many as 300,000 cases of bronchitis and pneumonia in children.

The gathering of Elders and the former surgeons general — Antonia C. Novello, C. Everett Koop, Julius B. Richmond, S. Pail Ehrlich and Jesse L. Steinfeld — marked the first time they had met to support a single piece of legislation.

But Tobacco Institute consultant Charles O. Whitley claimed that testimony favoring a ban on smoking in public buildings was based on old reports and questionable EPA studies.

# Crime in L.A. Dropped Sharply after Quake

LOS ANGELES TIMES

LOS ANGELES

In the aftermath of last month's earthquake, thousands of police officers, sheriff's deputies and National Guard troops helped keep criminals off the streets in record numbers, according to internal police records.

Day-by-day records gathered by the Los Angeles Police Department and obtained by the Los Angeles Times show that so-called repressible crime — those crimes that experts say can be deterred by uniformed police officers — dropped by 21.5 percent during the second half of January, the period following the Jan. 17 earthquake.

The repressible crime statistics — which include murders, most assaults, robberies, burglaries, thefts from cars and automobile thefts — bolster arrest numbers released by the department during the days after the earthquake and help dispel any suggestion that arrests were down only because the department was busy performing other duties rather than arresting suspects.

Moreover, while some of the decreases in reported crimes are almost certainly attributable to the outpouring of good will that followed the early-morning quake on Jan. 17, the breadth of the crime drop suggests to many analysts that the department's mobilization, which put thousands of additional officers on the streets, had a marked impact on crime in the city.

A mobilization was activated within hours of the earthquake, as officers throughout the department were ordered to work 12-hour shifts.

# Graduate Student Council

Add yourself to the GSC mailing list. Simply log onto Athena and type `blanche gsc-students -a your login`. If you have any questions, email to `gsc-request@mit`.

# Technical Support:

David Breslau (`breslau@space.mit`) would like graduate students to tell him their experiences with technical support staff. If you've ever needed a piece of equipment made, you've probably dealt with technical support staff—or maybe you should have! Either brickbats or bouquets are welcome.

Business: PAAH meeting, Thursday Feb. 10  
(Peer Advocates Against Harassment)  
HCA meeting, Tuesday Feb. 15  
APPC meeting, Wednesday Feb. 23

at 5:30 in room 50-220. Free food.

Deadline for Spring Term Funding Board Applications is Feb. 18!

**Fun!**

Weary travellers, rejoice! Thou art welcomed unto yon *Medieval Manor* this fortnight hence, to dine at the Master's table and to delight in the revelry there. The cost is a mere 20 pieces of the King's good silver, the which thou mayest pay by cheque unto the GSC starting e'en upon the morrow. Wait not, lest the table be set with nary a place for thee! (Contact Stan Reiss, `sjreiss@mit` for details.)

**Party!** Ashdown House is having a party this Friday, Feb. 11 at 9:00. All graduate students welcome! *Free!*

**Important:** The GSC Forum on Harassment is on Wednesday, Feb. 16 from 5—7:30 in room 6-120.

# OPINION

## Letters To The Editor



### Chairman

Jeremy Hylton '94

### Editor in Chief

Eva Moy '95

### Business Manager

Benjamin A. Tao G

### Managing Editor

Michelle Sonu '96

### Executive Editor

Sarah Y. Keightley '95

#### NEWS STAFF

**Editor:** Hyun Soo Kim '96; **Associate Editors:** Ramy Amaout '97, Ifung Lu '97, Daniel C. Stevenson '97; **Staff:** Rahul T. Rao '94, Trudy Liu '95, Ben Reis '95, Nicole A. Sherry '95, Kevin Subramanya '95, Charu Chaudhry '96, Deena Disraeli '96, Michael A. Saginaw '96, Lawrence K. Chang '97, A. Arif Husain '97, Matt Mucklo '97, Gabriel J. Riopel '97, Rishi Shrivastava '97, Andy Stark '97; **Meteorologists:** Michael C. Morgan G, Yeh-Kai Tung '93, Arnold Seto '96, Marek Zebrowski.

#### PRODUCTION STAFF

**Editors:** Matthew E. Konosky '95, Teresa Lee '96; **Associate Editor:** Ernst Smith '97; **Staff:** Patrick Mahoney '94, Ling Liao '95, Jared Cottrell '97, Geoff Lee Seyon '97, Joo Youn Park '97, Jimmy Wong '97.

#### OPINION STAFF

**Editor:** Michael K. Chung '94; **Associate Editor:** Anders Hove '96; **Staff:** Matt Neimark '95.

#### SPORTS STAFF

**Associate Editor:** Eric M. Oliver G, Dan Wang '97; **Staff:** Mike Duffy G, Andrew Heitner G, Thomas Kettler G, Ognen J. Nastov 'G, Bo Light '96, Koichi Kunitake '97.

#### ARTS STAFF

**Editors:** Ann Ames '92, J. Michael Andresen '94; **Associate Editor:** Scott Deskin '96; **Staff:** Thomas Chen G, Dave Fox G, Allen Jackson '94, John Jacobs '94, Kaiteh Tao '94, Craig K. Chang '96, Anne Wall.

#### PHOTOGRAPHY STAFF

**Editor:** Josh Hartmann '93; **Associate Editors:** Sharon N. Young Pong '96, Thomas R. Karlo '97, Helen M. Lin '97; **Staff:** Jason Fleischer G, Simson L. Garfinkel '87, Dan Gruhl '94, Rich Domonkos '95, Sherrif Ibrahim '96, Lenny Speiser '96, Justin Strittmatter '96.

#### FEATURES STAFF

Christopher Doerr G, Pawan Sinha G, Mark Hurst '94, Cherry Ogata '94, Steve Hwang '95.

#### BUSINESS STAFF

**Advertising Manager:** Pradeep Srekanthan '95; **Associate Advertising Manager:** Anna Lee '97; **Accounts Manager:** Oscar Yeh '95; **Staff:** Jeanne Thienprasit '95, Mary Chen '97.

#### TECHNOLOGY STAFF

**Director:** Garlen C. Leung '95.

#### EDITORS AT LARGE

**Contributing Editors:** Matthew H. Hersch '94, Yueh Z. Lee '95, Eric Richard '95; **Senior Editor:** Vipul Bhushan G.

#### ADVISORY BOARD

V. Michael Bove '83, Robert E. Malchman '85, Thomas T. Huang '86, Jonathan Richmond PhD '91, Reuven M. Lerner '92.

#### PRODUCTION STAFF FOR THIS ISSUE

**Night Editors:** Jeremy Hylton '94, Garlen C. Leung '95; **Staff:** Vipul Bhushan G, David A. Maltz G, Michael K. Chung '94, Patrick Mahoney '94, Sarah Y. Keightley '95, Eva Moy '95, Michelle Sonu '96, Angela Chang '97, Ernst Smith '97, Daniel C. Stevenson '97.

*The Tech* (ISSN 0148-9607) is published on Tuesdays and Fridays during the academic year (except during MIT vacations), Wednesdays during January, and monthly during the summer for \$20.00 per year Third Class by *The Tech*, Room W20-483, 84 Massachusetts Ave., Cambridge, Mass. 02139-0901. Third Class postage paid at Boston, Mass. Non-profit Organization Permit No. 59720. **POSTMASTER:** Please send all address changes to our mailing address: *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029. Telephone: (617) 258-8324. FAX: (617) 258-8226. Advertising, subscription, and typesetting rates available. Entire contents © 1994 *The Tech*. Printed on recycled paper by MassWeb Printing Co.

## Tech Review Of The Foundling Unfair to Production

I am one of the orchestra players for *The Foundling*, and I am quite shocked at the review given by Jonathan Richmond PhD '91 ["Student-written *Foundling* yearns for editing," Feb. 4]. The first thing I disagree with is his opening statement, "It's rarely a good idea to allow writers to direct their own work." I happen to very much disagree, not only as a musician, but as someone who listens to a great variety of music. If I were to ever compose music, I would insist that I conduct, not some conductor who guides the players through the notes, especially since it would be my dream on paper.

The next thing that really upset me was the tone of the reviewer. I do not know the reviewer, and this is certainly not enough to make a proper judgment of his character, but I am shocked at the way he is so rude in his review. Even if I was not a musician, I would still love the music. Maybe it is that musical part of me that likes the music, but you don't have to be a

musician to appreciate good music.

Also, the comment "His direction of the orchestra is also limp" is totally uncalled for. I think my response to this comment would be, "Your review of *The Foundling* is also limp." (Just a side note: I mention again that this letter is responding to this person's review, not to the person)

The reviewer has failed to truly review the music. The production Saturday night went very well, and the crowd really liked it. Repeat: Really liked it. Not any sort of "flop," as this reviewer would have you believe. Also, they did not seem to think it was too long. Apparently this reviewer has never been to an opera, a concert, or something that could possibly take up the better part of an evening. There are in fact 20 songs in this production. Even if every song was only three minutes long, that would require at least an hour just for singing. There is also a large amount of dialogue in this play, most of which is quite funny. This is somewhat of a two-faced play, because it has very good music and still has good humor along the sidelines.

Regarding the music again, most people who listen to a lot of music know that most pieces of music that would appear in an opera

or concert are longer than three minutes each. In fact, to have a song of 10 minutes or more is not surprising. However, for someone who really loves this kind of music, 10 minutes may not be long enough. I am one of these people, and to me, there should be more of what I hear in *The Foundling*. It is really good music. The fact is that not everyone will like it. However, if you really love music, such as Chopin, Mozart, Debussy, Gershwin and even Andrew Lloyd Webber, then you should enjoy the music in *The Foundling*. One more point. This is a comedy. It is supposed to be funny. In fact, there is a lot of good humor in this production. You are not there to just listen to the story, but to enjoy a few of laughs (for me it was a lot) along the way.

Throughout the play, there are many songs that I do not play in, so I also get to listen and enjoy. And even though I have heard the entire play twice, I will still enjoy hearing it again. I hope that the review did not mislead people too much, because *The Foundling* is a very good production, and it is facing the problem that two people will never give the same review, regardless of the quality of the production.

Jeffrey S. Poore '97

# Rushdie, Not Martin, Deserves Respect

Column by Daniel C. Stevenson

ASSOCIATE NEWS EDITOR

In a column in the January issue of *Counterpoint*, editor in chief Samira Khan rightfully called for an end to censorship, particularly state- or institution-sponsored censorship of blasphemous or potentially insulting works. Following upon this idea, Khan correctly asserts that we should condemn the fatwa, or death threat, placed against author Salman Rushdie almost five years ago by then-Ayatollah Khomeini of Iran. But Khan's arguments are fundamentally flawed when he extends his defense of unpopular thought to include the works of Wellesley College history professor Tony Martin. Khan declares that Martin, who teaches courses using his book *The Secret Relationship Between Blacks and Jews*, deserves the same respect and honor bestowed upon Rushdie, who received a citation and honorary visiting professorship from MIT last November.

The problem with Khan's argument and the principal distinction between the two authors lies in the fact that Rushdie wrote a novel, *The Satanic Verses*, a work of fiction that prompted the fatwa and the ensuing controversy, whereas Martin teaches a history course from his text. *The Satanic Verses* should not be seen as any more historical than Dante's *Inferno* or Swift's *Gulliver's Travels* — it is an interesting, possibly inflammatory fictional account of debatable literary merit. As Khan points out, Rushdie's literary greatness stems mainly from his other works, including *Midnight's Children*, for which he won the prestigious Booker Award.

The works by Dante Alighieri or Jonathan Swift also contain insults like those attributed to *The Satanic Verses* — Dante portrays a hell where unbelievers or Dante's rivals are tortured in infernal pits, and Swift is notorious for reaming Catholics. Yet no professor would teach Dante's *Inferno* or any work of Swift as an accurate historical account of realistic events, save for the references to setting and some of the characters. The same argument demonstrates the difference between Rushdie and Martin: Rushdie writes fiction, with a possibly historical setting, which should be appreciated and interpreted for its literary merit or inspiration, not for the truthfulness of its content. Any recognition of Rushdie should stem from the literary merits of his

writing, not any controversial meaning.

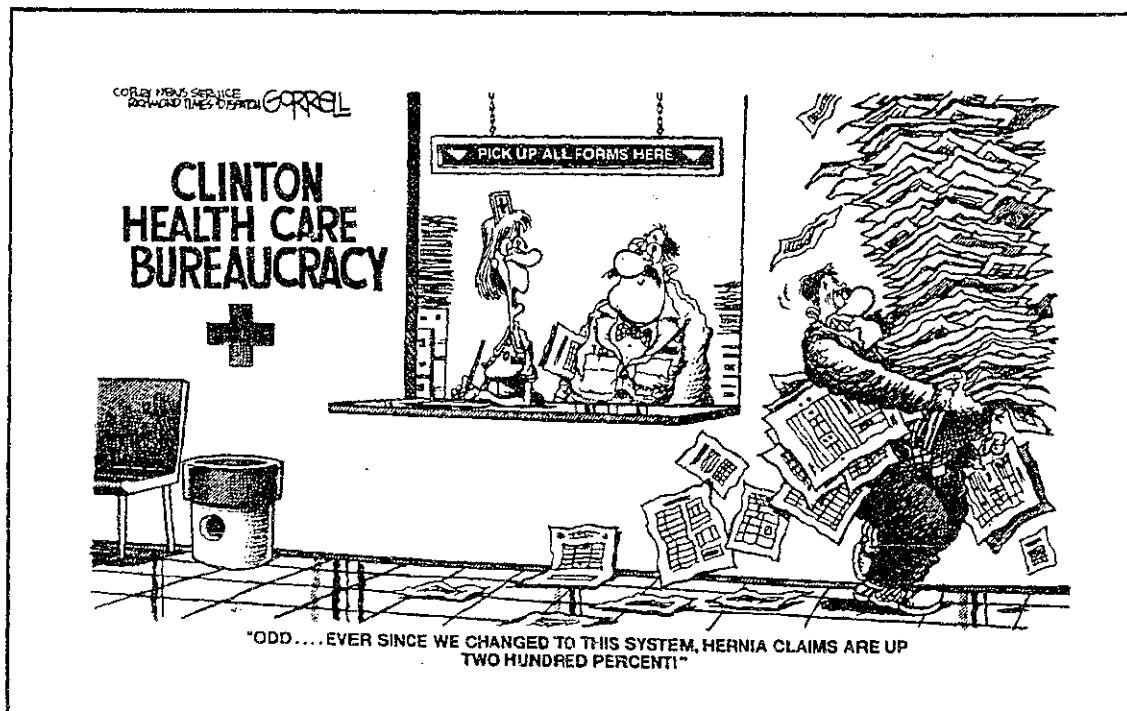
If, however, Rushdie were to teach a course using *The Satanic Verses* as the definitive source on the Muslim world and the Qu'ran, he would be guilty of the same inexcusable bigotry afflicting Martin. Martin's works can be defended to the point where they are seen as presenting an alternative view. But when wrongful, false descriptions of history, misattributions to sources, and the other faults in Martin's writing are taught in a history class, they clearly represent prejudice, bigotry, and the indoctrination of hate.

Wellesley College, or any other institution, should no more defend Martin's teaching of his book as a source of historical fact than it should defend Bradley R. Smith or his Committee for Open Debate on the Holocaust. I am all for defending free speech and for allowing people to express their own opinions. In fact, I strongly agree with *Counterpoint's* motto, "I do not agree with a word you say, but I will defend to your death your right to say it," rightfully attributed to Voltaire (not Patrick Henry, as Khan asserts). However, when these opinions are masked in the guise of fact and are taught and incorporated into education as fact, they transgress free speech and approach brainwashing and thought control reminiscent of Orwell's 1984.

Lest anyone accuse me of being biased, I will acknowledge with pride that I am of Jewish background, and I have been brought up to be watchful for anti-Semitism, and in fact, prejudice of any kind. However, dislike of anti-Semitism does not make me at all prejudiced against Muslims or any other groups; quite the contrary. In earlier columns in *The Tech*, I have called for intervention to assist the Bosnian Muslims, likening their terrible plight to that of the Jews in the Holocaust, and I have always taken a stand against perceived racism or hatred of any kind.

Jews and Gentiles (non-Jews) everywhere should remember the Holocaust, as Thomas Kennealy, an Australian non-Jew and author of the book "Schindler's List" wrote. "The Holocaust is the most extreme version of rootless race hate in European history," Kennealy said, and it is important for Jews and Gentiles alike to "retain the memory of the Holocaust and to receive the warnings inherent in it."

Salman Rushdie deserves recognition as a noteworthy author and a champion of the freedom of speech. Rushdie champions the right to express controversial opinions, but to indoctrinate opinions into education represents a blatant perversion of this right. Bigots like Tony Martin should not be granted the same respect and recognition as Rushdie and his colleagues.



## Opinion Policy

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

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

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

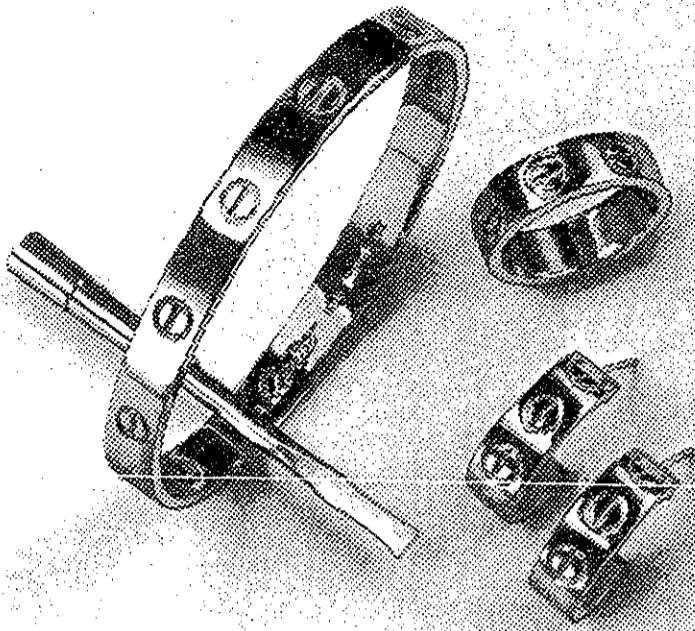
**Letters to the editor** are welcome. They must be typed, double-spaced and addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or by interdepartmental mail to Room W20-483. Electronic submissions in plain text format may be mailed to letters@the-tech.mit.edu. All submissions are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

days before the date of publication.

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

## 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: ads@the-tech.mit.edu, news@the-tech.mit.edu, sports@the-tech.mit.edu, arts@the-tech.mit.edu, photo@the-tech.mit.edu, circ@the-tech.mit.edu (circulation department). For other matters, send mail to general@the-tech.mit.edu, and it will be directed to the appropriate person.

**FLAME!**Send letters to [letters@the-tech.mit.edu](mailto:letters@the-tech.mit.edu).*Cartier***The Cartier Love Story**

It all began with the Love Bracelet®, the Cartier® classic in 18K gold, created in 1969. Complete with its own vermeil screwdriver. Size 0-1 1/2. \$3,500. Size 2-3. \$3,700. The theme continues with the pierced earrings. \$1,700. The ring. \$1,175.

Cartier jewelry is sold exclusively in Cartier jewelry stores and Must de Cartier boutiques. Each piece is accompanied by a certificate guaranteeing its authenticity.

*Cartier*

40 Newbury Street, Boston (617) 262-3300

For a copy of our latest catalog visit our stores or call 1-800-CARTIER

© 1993 CARTIER INCORPORATED

**THE I. AUSTIN KELLY III PRIZES  
1993-1994**

For Excellence in Humanistic Scholarship  
by  
MIT Undergraduates

Two prizes of \$500 each for scholarly or critical essays judged to be outstanding in any of the following fields or in some interdisciplinary combination of them:

Anthropology  
Archaeology  
Art History  
Economic History  
Film and Media Studies  
History  
History of Science and Technology  
Literary Studies  
Musicology  
Philosophy  
Politics  
Women's Studies

Rules and Guidelines are available from the History Office, School of Humanities and Social Science, Room E51-210, 253-9846. The submission deadline is **Thursday, April 7, 1994, 5:00 p.m.**

**Concerned about the Future of UROP?  
Want to make your opinions heard?**

*The Undergraduate Association*

presents a

**Community Forum on  
the Future of UROP Funding**

with Provost Mark Wrighton

*Monday, February 14, 1994**8PM in Twenty Chimneys*

# THE ARTS

## Jim Carrey's facial contortions highlight *Ace Ventura*

### ACE VENTURA: PET DETECTIVE

Directed by Tom Shadyac.  
Written by Jack Bernstein, Tom Shadyac, and Jim Carrey.  
Starring Jim Carrey, Sean Young, and Courtney Cox.  
Loews Copley Place.

By J. Michael Andresen  
ARTS EDITOR

Admittedly, this movie sounds stupid at the outset. A pet detective looking for a kidnapped dolphin? Surely you jest! But Jim Carrey is nothing if not a jester, and he shines in this, his first starring role. Wonderfully exaggerated facial gestures, along with perfect comedic timing, combine to make perfect his characterization of a non-standard investigator.

*Ace Ventura: Pet Detective* is very much a vehicle for Jim Carrey and his brand of humor. Though he has had supporting roles in a few movies previously, he is best known for the outrageous characters he has created on *In Living Color*, the Emmy Award-winning television series. His hallmark is facial contortions; he has the uncanny ability to twist his face into veritable personifications of the emotions he enacts from pain to elation, scorn to enthusiasm. In context, these are hilarious. No matter what happens in the rest of the screen, Carrey's expression is always amusing.

His vocal caricatures are almost as hilari-

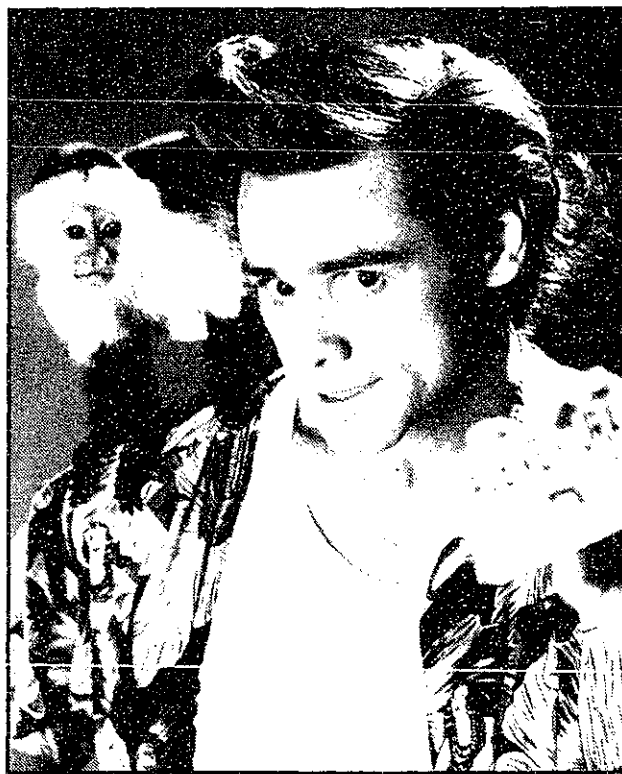
ous. From his trademark laugh to his impression of a lunatic wide receiver, he cannot fail to please. MIT fans will especially enjoy a trio of Star Trek impressions.

Jim Carrey is *Ace Ventura*, the noted Miami pet detective. When Snowflake, the mascot of the Miami Dolphins football team, is kidnapped, *Ace* is called to the job. In a cascade of foolhardy blunders and semi-decent detective work, *Ace* attempts to track down the missing aquatic creature. Only after Miami Dolphin quarterback Dan Marino (as himself) is kidnapped as well does *Ace* put two and two together to get five and solve the case.

Surprisingly, the script is rather well written. The plot of the detective story is coherent and interesting. The bad guy is sufficiently deviant and well motivated, and the action progresses logically. True, *Ace Ventura* is of the same genre as *Airplane*, *Naked Gun*, and *Police Academy*, but its plot is nonetheless sound.

Some of the jokes are a bit crass, perhaps. There were a few too many penis jokes for my taste. The overuse of the word "dick" for "private detective" was the least tiresome. On the whole, however, the comedic material is fresh. "You really love animals," observes Dolphins' marketing director Melissa (Courtney Cox). *Ace* ponders this for a moment before agreeing, "If it gets cold enough."

Despite several movie roles, Cox too is



Jim Carrey portrays an offbeat detective who tracks Miami Dolphins quarterback Dan Marino, kidnapped on the eve of the Superbowl in *Ace Ventura: Pet Detective*.

probably best known for her last television role, that of Lauren, Michael J. Fox's girlfriend on *Family Ties*. This role will not change that, as she is not particularly memorable; the writing gives all lines with any

humorous content to Carrey, and her delivery of her own lines is uninspired.

Marino is an acting flop as well. It is truly pitiful that the man cannot even portray himself believably. Though perhaps a cute gimmick, Marino really brings down the ending of the film. Carrey could easily have carried the film himself without relying on a celebrity role of such significant importance as Marino's.

One interesting production aspect was the use of animals. Aside from the dolphin, more than 25 animals grace the screen, most of which appear in two scenes in *Ace's* apartment. The first is silly, as all the animals come out from their hiding places to greet *Ace* when he comes home. The second is much better and involves nearly the entire animal cast (including a skunk, a couple of penguins, and a monkey) watching in awe during the goofy sex scene.

The music is also well chosen. Drawing from various other film scores, it always fits the mood on the screen at the time, often in an amusing or ironic way. Listen for the theme from *The Crying Game* in an oddly appropriate spot. The use of the tune alone draws several well-deserved laughs.

Though indisputably stupid, *Ace Ventura: Pet Detective* is also genuinely funny, and Carrey excels in the lead role. If there were such a category, he would win hands down an Academy Award for best facial contortions. In fact, he'd probably be the only nominee.

© 1993 Home Box Office, a division of Time Warner Entertainment Company, L.P. All rights reserved. © Service mark of Time Warner Entertainment Company, L.P.

Finally,  
A Saturday Night  
You  
Won't Regret  
Sunday  
Morning.

It's about time. A Saturday night that lives up to expectation. On cable TV, you get over 20 different viewing options, 4 Premium Movie channels, 2 Sports channels and Pay-Per-View movies. For just \$10.00 a month it can be all yours. Premium and Sports channels are an additional \$10.95 per month. Pay-Per-View movies are \$4.99 each. Looking for a Saturday night you can count on? Get cable.

Order cable this week at the Student Center, Tuesday thru Friday, February 15th thru 18th from 11:30 am till 4:00 pm. Or at Eastgate on Tuesday, Westgate on Wednesday, MacGregor House on Thursday, and Ashdown House on Friday. Each day from 5:00 pm till 8:00 pm.



Continental  
Cablevision  
876-3939

Having trouble with school or work?  
Are you easily distracted?  
Do you have difficulty concentrating?

These and other symptoms of  
**Attention Deficit Disorder**  
Can now be treated without drugs  
Using a program of

**EEG Biofeedback Training**

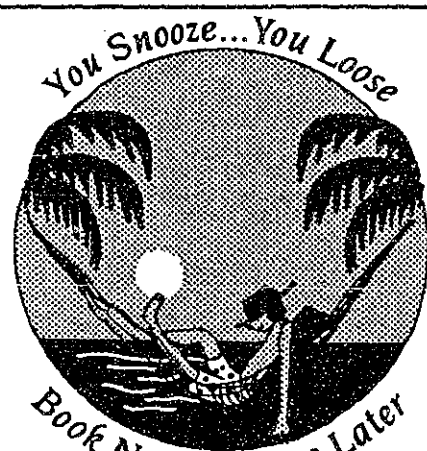
For more information, contact:  
Neurodevelopment Associates, Inc.  
Susan M. Brefach, Ed.D.  
Mass. Licensed Psychologist  
860-7211

**LSAT  
GMAT  
MCAT  
GRE**

THE  
PRINCETON  
REVIEW

we score more

617/558-2828



**NEVER TOO LATE FOR  
SPRINGBREAK!**

CALL TODAY FOR  
GREAT RATES TO  
EXCITING DESTINATIONS...

**CANCUN - BAHAMAS  
JAMAICA**

**LONDON - BRUSSELS**



Stratton Student Center  
M.I.T. W20-024 Cambridge, MA  
617-225-2555

# Phish members join Dude of Life in hybrid concert

## THE DUDE OF LIFE

Feb. 3.  
The Paradise.

By John Jacobs  
STAFF REPORTER

The Dude of Life played at the Paradise last Thursday. No, wait a minute — Phish played at the Paradise last Thursday. Um, no, that's not quite right, either. ...

Actually, it was a hybrid beast of a band that took the stage that night. Phish drummer Jon Fishman was already on-stage as the Dude's drummer and it was rumored before the show that Phish guitarist Trey Anastasio would join them.

Those rumors turned out to be true. When Trey took the stage, the audience went wild with excitement. It was like a small hurricane of flannel, dotted with prep school caps and "Is it Live or is it Dead?" T-shirts.

The Dude's band and Trey played a few

songs before they were joined by Phish bassist Mike Gordon, whose appearance took the crowd completely by surprise. The introductions were ideally spaced for optimal crowd reaction, and the crowd did react. The air tingled with energy and excitement. With three-quarters of Phish on-stage, the Dude of Life launched into "I Don't Care About Anybody But Myself."

Although Trey stayed for the whole set, Mike left after two or three numbers. His replacement, the Dude of Life's bassist, opted for more traditional baselines, but redeemed himself by singing the band's cover of "Respect" by Aretha Franklin.

The Dude himself was kind of a dork. With his top hat and his gold-trimmed red cape, he bore an uncanny resemblance to both Slash and the evil prince from *The Princess Bride*. Besides singing poorly, the Dude does not play any instruments. This means that he has absolutely nothing to do while the instrumentalists solo. Nothing, that is, except look more like a dork by nodding or shaking his

head to the beat of the song.

Supposedly, at the Dude's concert in Northampton, he outdid himself by wearing stockings, a green dress, a top hat, and goggles. At that concert, he threw rubber sharks and a rubber pig into the crowd. The audience at the Paradise had to settle for one rubber chicken, which he taunted us with first.

The Dude's primary strength is purported to be as a lyricist. He wrote the words to "Dinner and a Movie" and "Fluffhead," both cuts from Phish's *Junta* album. However, the lyrics for "Dinner and a Movie" consist entirely of (no joke): "Let's go out to dinner and see a movie." At the Paradise, the Dude came out as lyrically insane. His songs betrayed a twisted sense of humor, not the kind of humor to bond to an audience with.

Because of Trey's presence, the Dude's backup band was hard to appraise. They couldn't seem to blend with Trey's guitar solos, and Trey seemed to have no desire to match their less jazzy style. The resultant lack of coherence left the music less satisfying

than it could have been.

The Dude's guitarist was good, in spite of his penchant for Phish-like off-key solos. The keyboardist, however, was exceptionally bad. He forced the band to let him solo, then sounded horrible. The band actually cut his solo short and did not encourage him to solo again.

The set list included "Lucy in the Subway with Daffodils," "She's Bitchin' Again," and "Family Picture." The band also covered the Beatles' "Sexie Sadie" (which they performed very well), "Respect," Steppenwolf's "Livin' After Midnight (Rockin' till the Dawn)," and James Brown's "I Feel Good."

The show turned out to be pretty good, though there's no telling how it would have gone if the Dude of Life had had to stand on his own, without Trey Anastasio or Mike Gordon. On the other hand, the show with Trey and Mike could have been better with a little rehearsing.

If you're going to see the Dude of Life, see them where Phish won't let them fall flat, like




## Join The Tech Arts Staff!!!



If you would like to review movies, plays, music, or concerts call 253-1541.

Map your future with



**MapInfo CORPORATION**

OOP GUI OLE NT C++  
Solaris Motif 4GL

MapInfo has a variety of positions available in multi-platform software development.

See the Office of Career Services for an interview.

MapInfo Presentation:  
Date: February 10, 1994  
Place: M.I.T. Room 4-149  
Time: 5:00-6:00 pm  
Interviews: Friday, February 11, 1994.

**NOTICE!**

### INTRAMURAL SPORTS

INTRAMURAL AFFILIATION MEETING  
**THURSDAY FEB 10 @ 7:30 PM IN 4-370**

**ALL FINES MUST BE PAID TO RE-AFFILIATE**

**ENTRY DEADLINE FOR: VOLLEYBALL & OCTATHON WILL BE ANNOUNCED**

SEE W32-123 FOR MORE INFO

**M.I.T. STUDENT SPECIAL**



**SHEAR MADNESS**

**BOSTON'S OUTRAGEOUS INTERACTIVE COMEDY**

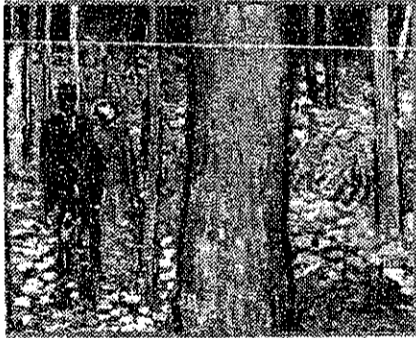
**TICKETS ONLY \$10**

**EVERY WEDNESDAY 8PM PERFORMANCE IN FEBRUARY**

At the box office or charge by phone 617-426-5225  
CHARLES PLAYHOUSE • WARRENTON ST.

## Something for Your Mind, Your Body, and Your Soul.

**THE REDISCOVERY OF THE MIND**



**JOHN R. SEARLE**

**The Rediscovery of the Mind**  
*John R. Searle*

"A brilliant work of great scope and power."  
—Ned Block, Linguistics & Philosophy, MIT

Searle launches a formidable attack on current orthodoxies in the philosophy of mind. He argues that the neglect of consciousness results in barrenness and sterility in psychology, philosophy of mind, and cognitive science.


*A Bradford Book. \$12.95 now in paperback*

**Consciousness Reconsidered**  
*Owen Flanagan*

"An excellent introduction to many of the issues concerning contemporary philosophy of mind...Very highly recommended."  
—*Academic Library Book Review*

*A Bradford Book \$12.95 now in paperback*

**THE NEW HACKER'S DICTIONARY**



**ERIC S. RAYMOND**

**The New Hacker's Dictionary**  
Second Edition  
*edited by Eric S. Raymond*

This new edition of the hacker's own phenomenally successful lexicon includes more than 200 new entries and updates or revises 175 more. While still retaining its high giggle value.

*\$14.95 paperback*

**Hacker's Dictionary T-Shirt**

Whether you're a *house wizard* or a *veeblefester*, you'll want to wear this *Good Thing*.

*\$11.95 L & XL only. 100% cotton. Three color cartoon on front "Hacker = Cracker" and definition on back. Half off with book purchase. Or FREE to the first five people who read this fine print & spend at least \$25 at the same time. (This ad appears in 4 different publications, so you have 4 chances to win!)*



**Control**

**Barbara Kruger**

**Remote Control**  
Power, Cultures, and the World of Appearances  
*Barbara Kruger*

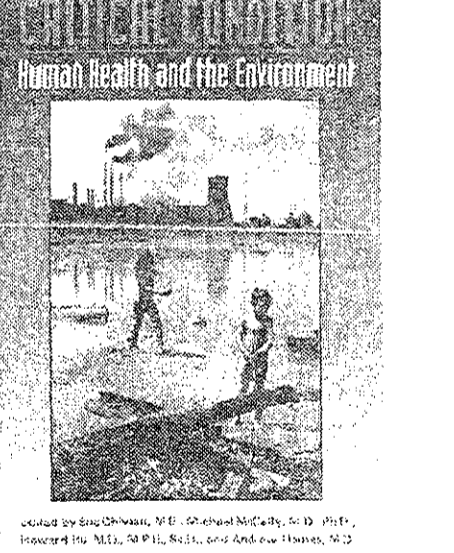
*Who speaks? Who is silent? Who is seen? Who is absent?*

Barbara Kruger is an artist whose pictures and words question and engage power. Written over the last decade, her essays speak to our criticality and our dreams of affirmation.

"A feast of insight into gender, sex, and contemporary culture, staged as sneak attacks filled with devastating grace, acuity, and wit." —Carole S. Vance, Columbia University

*256 pp., \$19.95 cloth*

**CRITICAL CONDITION**



**Human Health and the Environment**

**Critical Condition**  
Human Health and the Environment  
*edited by Eric Chivian, Michael McCally, Howard Hu, and Andrew Haines*

"Everyone who cares about health or the environment should read this valuable addition to environmental literature."  
—Anne Ehrlich, Stanford University.

For the first time in human history we are altering the basic physiology of the planet, yet until now there has been no single source that summarizes the medical consequences of this environmental crisis for human beings. *Critical Condition* provides a review of this most critical and yet most neglected subject in the environmental debate.

*240 pp., \$15.95 paperback original*

- General Interest & Scholarly Publishing in:**
- Computer Science
  - Artificial Intelligence
  - Robotics
  - Neuroscience
  - Cognitive Science
  - Economics
  - Linguistics
  - Philosophy
  - Art
  - Criticism
  - Design
  - Architecture
  - Urban Studies
  - Political Science
  - Science, Technology & Society

**Remember: If your textbook is published by The MIT Press, we have it!**

**20% OFF**

any MITP publication with this ad. Limit one ad per customer. Offer expires 3/31/94

Published by The MIT Press. Available at fine bookstores

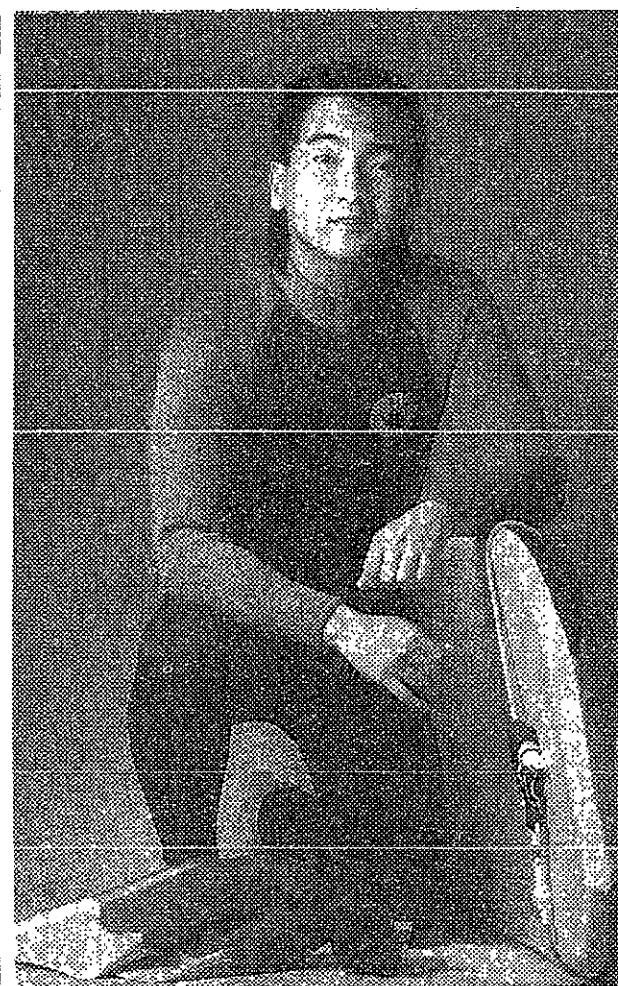
# The MIT Press Bookstore

Kendall Square • 292 Main Street, Cambridge MA 02142 • 253-5249 • Mon-Fri: 9-7, Sat: 10-6, Sun: 1-6 • VISA/MC • phone & mail orders

# 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 BSEE and MSEE. 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, February 15, 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 1,300 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, 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. CS94MIT (indicate dept. code on both cover letter and envelope), 6455 Lusk Blvd., San Diego, CA 92121. FAX: (619) 658-2110. Internet: jobs@qualcomm.com Or call our Jobs Hotline at (619) 550-8888. Equal Opportunity Employer.

*Next generation digital communications.  
And the next.*



# Physicists Say SSC Could Have Led to Applications

SSC, from Page 1

oval tube beneath Waxahachie, Texas. The SSC was to have been 20 times more powerful than the largest existing accelerator, allowing particles to travel at a higher velocity.

The SSC project began to take form in 1983, when groups of particle physicists met to discuss what the next step in particle physics research should be, Friedman said. They concluded that the construction of the SSC would present the best prospects for further research into the nature of matter.

The SSC was to be "a continuation in U.S. programs which stretched since the 1950s. It would have been a culmination in research ... that has been enormously fruitful for the U.S." in the past, Kendall said.

The project was supported through three presidential administrations until coming under question in the early 1990s, Friedman said. The death of the SSC raises many questions among physicists as to what the future of particle physics will be.

"The cancellation of [the SSC] so abruptly after 10 years of government support ... really stresses relations between the government and the technological community," Kendall said.

"I'm not too concerned about the political repercussions. I am concerned about the [shrinking] investment in science, and that is what has people concerned in the world of physics," said Rose, who plans to attend graduate school. "I hope that I will be able to continue in physics," he said. "I hope there will be funding for that."

The general sentiment is that future, particle physics projects will have to depend more on international collaboration to avoid the problems that plagued the SSC.

Worldwide collaborative efforts

play an increasing role, as "the scope of the apparatus" used to investigate particle physics "certainly makes it look like the way to go," Rose said.

Particle physicists now look to research at existing accelerators, such as the Stanford Linear Accelerator and CERN, Europe's main accelerator facility. In fact, CERN currently has plans for building a new, larger collider, dubbed the Large Hadron Collider.

"There will be a solace to find in terms of joining the LHC which is an accelerator proposed to be constructed at the CERN laboratory," Friedman said. "It's a somewhat lower energy machine [than the SSC], but will provide information for physics beyond the standard [physical] model."

## Budget, waste were factors

One overwhelming factor that weighed against the proposed accelerator was the rumor of mismanagement, according to physicists. The SSC was nearing completion at a time of great concern about the deficit, Friedman said.

"A number of people in the House [of Representatives] had the feeling that this kind of research was a luxury," Friedman said.

However, Friedman pointed out that "the yearly construction budget [of the SSC] was on the order of two shuttle flights, so it was not as if this was an extraordinary expense in comparison to what they were spending at the time."

"This particular project did waste some money," Lightman said. "I don't know whether the governing bodies were lax in their management, but it is well known that money was wasted."

As a result of "the loss of this great project, the U.S. particle physics community is regrouping," Kendall said. "We have to now see whether there will be the funds to

continue current research."

Kendall sees this cut in funding as a national trend. "Research at MIT is underfunded badly," he said. "This is generally true in the country."

Lack of public confidence also played a key role in the SSC's demise. The initial problems with the lens of the Hubble Space Telescope raised public doubt as to the dependability of so-called "big science" — projects whose costs range in the billions of dollars.

"Congress-people question whether they should be spending tax dollars on the project" when other projects in big science, notably the Hubble, did not appear to be repaying taxpayers' investment, Lightman said.

"It's hard to pinpoint" the causes of the SSC's cancellation, said Friedman, pointing to delayed shuttle flights as another reason behind the lack of public confidence. "There was a feeling that big science was not ... dependable," he said. "The confidence in the science community was one of the elements involved" in the death of the SSC.

The combination of rumored waste of taxpayer dollars and lack of public confidence in big science was "devastating," Lightman said.

## Doubtful merit fueled opposition

Over the past two years, public debate increasingly focused on whether the benefits of the Super-collider's research would be worth its billion-dollar price tag. Many questioned how the discovery of subatomic particles or confirmation of a "grand unified theory" could have any bearing on contemporary American lifestyle.

According to Friedman, the SSC "became the symbol of something so esoteric, we could not support it."

The SSC faced a national "attitude that put basic research at not a very high priority in the country," said Friedman. "Unless one could

establish the benefits of research at its outset, one had to be very cautious about its [being supported]."

"We have no way of knowing" what the future benefit of SSC research may have been, Rose said, "since projects like this are on the frontier of technology."

Supporters of the SSC expected the new technology to have unforeseen spin-offs in applied science. Historically, endeavors in pure science have provided the foundations for the development of applications in fields such as engineering, medicine, and chemistry, as well as in physics, Friedman said.

"Pure knowledge is a noble human pursuit," said Lightman, "but you can also argue for its applications." For instance, "when Maxwell worked out the equations for electromagnetism [in the late 19th century], that was pure science," he said. "Pure science always became applied science."

The public's doubt over the SSC was not whether its research could lead to applications, but whether it could lead to applications of comparable importance to society.

According to MIT physicists, historical evidence seems to indicate that such windfalls would have been a possibility. One example has been the development of Magnetic Resonance Imaging. "Nuclear magnetic resonance was invented first for physics research," said Rose. "Magnetic resonance imaging, CAT scans ... have been used for everything, not only for medical applications."

Another application, has been synchrotron radiation, which has been "extremely important to biology, medicine, chemistry, and materials science," said Friedman.

However, "experiments in pure physics really have a great difficulty in convincing the public," said Lightman, who does not see the failure of the SSC as a failure on the part of physicists.

"I think the support of pure science has always faced an uphill battle," he said, "but if we look at the situation, historically it's clear that pure science has always paid off," said Lightman.

"There's also this quest for truth that science is worth investing in, for itself," said Rose.

## MCAT GRE GMAT

Get a  
**higher score**

*It's not too late,  
sign up today!*

**Call today!**  
1-800-KAP-TEST

## KAPLAN

The answer to the test question.

## Consulting: An Insider's Perspective

with guest speaker

Oliver Chow  
S.B. XV '93

from

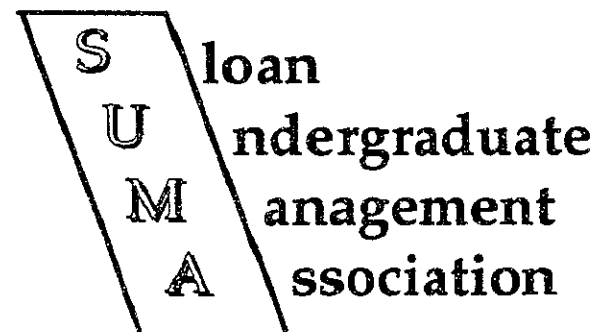
**Monitor Company**

Thursday, February 10, 1994  
Room 4-231  
5 pm - 7 pm

*It's never too early or too late to learn about consulting!*

SUMA would like to welcome underclassmen of all majors to an informal presentation and Q&A session about opportunities in consulting for MIT students.

Oliver (SUMA '93) and other members of Monitor Company will also be discussing Monitor's Summer Internship Program.



For more info on how to join SUMA, call Diane (X5-9613) or Celeste (X5-9628).

# Underrepresented Minority Levels Remain Constant

PhDs, from Page 1

however, "MIT is viewed generally as doing very well in this regard," Colbert said, with "quite a number of effective outreach programs."

Colbert observed that in the trend of constant representation in graduate enrollment, there has been a moderate increase in African American students in the past year. The study is due to be released in upcoming weeks, he added.

This change is mainly the result of a concerted effort by Colbert and Margaret D. Tyler, assistant dean of the graduate school for recruitment, an effort which "certainly has paid off," according to Colbert.

"It seems to me that MIT is making an effort to recruit more black students to get higher degrees," said Andrew C. Humphrey G, president of the Black Graduate Student

Association.

## Department participation needed

Colbert attributed part of this low representation to the academic departments. "If the faculty wanted these students here in greater numbers, they would be here," he said.

When Tyler was on leave for a year, the number of minority applicants dropped dramatically, according to Colbert. This trend demonstrated that departments were not doing enough recruiting on their own, and were relying on the graduate office, he said.

"The problem lies in departments that make the decisions" about admitting graduate students, said Clarence G. Williams, special assistant to the president and assistant equal opportunity officer. When choosing students, the departments should recognize "all of the constituent elements" of the

applicant pool, Williams said.

"We do have representation in departments where it is very difficult to get minority applicants," Colbert said. The division of toxicology division and the departments of physics, aeronautical and astronautical engineering, and mechanical engineering have led in improving minority representation recently, he added.

## Emphasis at pre-college level

Both Williams and Colbert point to placing a greater emphasis on the pre-college level as a way to encourage minority participation in undergraduate and graduate science programs.

Along with encouraging capable minority applicants, MIT should "continue to see where we can help on the pre-college level," Williams said.

Primary and secondary schools

need to "do a great deal more" to emphasize curriculums that will "point these students to math, science, and engineering," Colbert added.

"In terms of black males, it is not surprising that the numbers have gone extremely downward when you look at the number of black males who do not finish high school," Williams said. The pre-college level "is probably one of the most important places" where science education needs to be emphasized.

Twenty-six percent of black and Latino males are "enmeshed in our legal system," according to Colbert, either imprisoned, under indictment, or with previous criminal records. "Society has sort of written off the black male and the Latino male."

## New program has some success

In 1991, Provost Mark S.

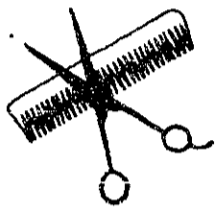
Wrighton introduced a program to encourage the hiring of minority faculty. The program has not produced "stunning results," Colbert said, but it has "made very clear what the Institutional priority is."

Wrighton's initiative is "a very physical step to be taken," Colbert said, and it is one that few other institutions follow. By establishing the program, "the administration is willing to make sure that the avenues are open and available for targets of opportunity," Colbert said.

This is "probably the most important program that I think we have seen here," Williams said. "We may not see exactly a great deal of progress so far, but I think there are some promising aspects about the program to attract women faculty and minority faculty members."

## KENDALL BARBERS

4 BARBER STYLISTS



Haircutting for Men and Women  
Monday thru Friday 9:15 to 5:15  
(Appointments Avail. Thurs. Evenings 5 to 8)

(617) 876-1221

238 Main Street, Cambridge, MA 02142



## King to Speak at Commemoration

King, from Page 1

this celebration with us is a wonderful opportunity and a unique opportunity to underscore MIT's commitment to keeping Dr. King's dream of peace, pluralism, and diversity alive in the intellectual and spiritual life of MIT," Feld said.

The King commemoration pro-

gram has "been a very important event for the last 20 years," and for the 20th anniversary "it would be appropriate to have someone of [Coretta Scott King's] stature and standing in the community to come," Feld said.

"MIT deserves a lot of credit for making it an official holiday before it became a national holiday," said

Clarence G. Williams, special assistant to the president and assistant equal opportunity officer, who developed and led the event for the first 14 years. Martin Luther King Jr. Day became a national holiday in 1986.

"I think that probably the thing that stands out in my mind" is that the top MIT administration at the time of the program's inception "played a major role and moved to make it an official holiday before any other universities or colleges in the state of Massachusetts," Williams said.

"We have had over the last three years very, very good national speakers," Osgood said. "I think the Institute will continue to try to secure a person of a national prominence in the future."

Past speakers at the annual program have spoken on "very provocative themes," Osgood said. Last year, Rev. William H. Gray III, president and CEO of the United Negro College Fund, delivered the lecture. In 1992, Benjamin Hooks, executive director of the National Association for the Advancement of Colored People, spoke at the program.

## CLASSIFIED ADVERTISING

**Classified Advertising in The Tech:** \$5.00 per insertion for each 35 words or less. Must be prepaid, with complete name, address, and phone number. *The Tech*, W20-483; or P.O. Box 397029, Cambridge, Mass. 02139-7029

**Donate Your Live Brain to Science** (Well, for 15 minutes anyway) The Dept. of Brain & Cognitive Sciences seeks subjects whose FIRST language is English for exciting psycholinguistic research. Pays \$3 for 15 minutes. Call Marie at 253-8408 or send e-mail to marie@psyche.mit.edu.

**Teach English in Japan** We train you to teach individuals and small groups. Your students are enthusiastic and respectful adults. No knowledge of Japanese is required. Advanced degree holders are especially welcome. One year renewable contract pays ¥3 million. Send letter and resume to: Mr. Evans, Bi-Lingual Corporation, 500 Fifth Avenue, Suite 2140, New York, NY 10110.

**Counselors for prestigious children's summer camp** in Maine who possess strong skills in tennis, baseball, lacrosse, fishing, archery, crew, nature study, photography, wind surfing, sailing, canoeing, kayaking, martial arts, basketball, horseback riding, gymnastics, art, piano, drama, canoe trip leader, and WSI swim instructor. References and interview required. Telephone: (617) 721-1443.

**The Tech subscription rates:** \$20 one year 3rd class mail (\$37 two years); \$55 one year 1st class mail (\$105 two years); \$60 one year air mail to Canada or Mexico or surface mail overseas; \$140 one year air mail overseas; \$10 one year MIT Mail (2 years \$18). Prepayment required.

# Teradyne.

## The right place for you.



**Melissa Frank**  
Design Engineer

BS, Electrical  
Engineering

Massachusetts  
Institute of  
Technology



**Yen Pham**  
Hardware Design  
Engineer

BS, Engineering

Harvey Mudd  
College



**Bruce Collins**  
Hardware  
Development  
Engineer

BS, Electrical  
Engineering

University of Illinois



**Katherine Prats**  
Component Engineer

BS, Mechanical  
Engineering

University of New  
Hampshire



**Girish Navani**  
Manufacturing  
Engineer, Software  
Development

MS, Manufacturing  
Engineering

Boston University



**Dan Proskauer**  
Design Engineer

BS, Computer  
Science

Cornell University

**T**eradyne is the right place for all kinds of people. It's a stimulating environment that challenges people every day. You're free to do the things you think need to be done, with a minimum of rules, regulations, and bureaucracy. We want people who don't need to be led by the hand. We want talented, bright people with new ideas and the initiative to give those ideas a shot.

You'll have plenty of opportunity at Teradyne. We're a \$500 million electronics company that competes in the global market, working with the world's largest companies. Our technology is unmatched, and our commitment to Total Quality Management is unwavering. In other words, we're big... but not too big!

If you want to learn more about your place at Teradyne, visit your Career Services Office.

# TERADYNE

An Equal Opportunity Employer

We will be on campus February 16, 1994

# POLICE LOG

The following incidents were reported to the MIT Campus Police Department between Jan. 28 and Feb. 3:

**Jan. 28:** Bldg. 4, Athena chair stolen, \$140; Baker House, student problem; Pacific Street lot, '82 Toyota stolen; Johnson Athletic Center, women's boots stolen from lockerroom, \$160; Burton House, stereo stolen, \$160; DuPont Gymnasium men's lockerroom, wallet stolen, \$40 cash and credit card taken.

**Jan. 29:** Westgate, owner found car unlocked, nothing missing; DuPont men's lockerroom, locker broken into, \$80 stolen.

**Jan. 30:** Bldg. 33, vandalism; Bldg. 11, vandalism.

**Jan. 31:** Bldg. NE43, bicycle stolen, \$400; Ashdown, electric razor stolen, \$60; 275 lot, Jeep broken into, \$3 stolen; Bldg. 35, vandalism.

**Feb. 1:** Bldg. E18, wallet stolen, \$41; Bldg. E23, tote bag stolen, \$5; Bldg. E40, suspicious activity; Bldg. E17, wallet stolen, \$40.

**Feb. 2:** Bldg. E52, tote bag stolen, \$5; '84 Pontiac stolen in Boston recovered in Kresge lot; West Annex lot, '92 VW vandalized; Bldg. 13, portable CD player stolen, \$170.

**Feb. 3:** Bldg. 66, hats stolen, \$120; Bldg. 13, vandalism.

# CLASSIFIED ADVERTISING

**Extra Memory Needed!** MIT Turbo XT owner with 640K RAM, 65YOA, fears change to new machine/software. Desperately seeks RAM addition plus memory management software, new or used. 397-6926, kotik@cbgrle.mit.edu.

**Legal problems?** I am an experienced attorney and a graduate of MIT who will work with you to solve your legal problems. My office is conveniently located in downtown Boston, just minutes from MIT via the MBTA. If your problem involves high tech law, consumer or business law, family law, real estate, accidents or litigation, call Attorney Esther Horwich at 523-1150, for a free initial consultation.

**Cruise Ships Now Hiring:** Earn up to \$2,000+/month working on cruise ships of land-tour companies. World travel. Summer & full-time employment available. No experience necessary. For more information call 1-206-634-0468 ext. C5033.

# 來利樓

## Larry's Chinese Restaurant

302 Massachusetts Ave., Cambridge  
Orders to go, or dining in

FREE DELIVERY TO THE M.I.T. CAMPUS — \$10 MINIMUM

Luncheon Specials served daily, 11:30 a.m. - 5:00 p.m., starting at \$2.95

Special Dinner Plate just \$4.95 all day long

10% OFF FOR STUDENTS WITH A VALID I.D.  
(for dine-in dinners only; \$10 minimum purchase)

**Call 492-3179 or 492-3170**

Monday - Thursday, 11:30 a.m. to 10:00 p.m.

Friday - Saturday, 11:30 a.m. to 11:00 p.m.

Closed Sunday

# TELECOMMUNICATIONS

*Excellence  
the world over*



Northern Telecom and Bell-Northern Research are very excited about the future - both yours and ours.

As a global leader in telecommunications, we're able to give you a real commitment to your training and continuing development, and put you alongside the most talented people in the telecommunications industry.

Find out more about excellence at NT and BNR. It could make a world of difference!

We will be on campus March 3 and 4, 1994.

Contact your placement office for complete information and interview schedules.



The research subsidiary  
of Northern Telecom

Northern Telecom and Bell-Northern Research are equal opportunity employers.  
Northern Telecom and Bell-Northern Research are committed to a drug free workplace.

# Political Correctness:

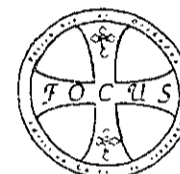
## How "Orthodox" is it?

Fr. Anthony Ugolnik  
Lancaster, PA

Wednesday, February 9  
8:00 PM  
MIT Chapel

A 2000 year old Christian perspective  
on today's hottest controversies.

Preceded by Vespers (evening prayer) service at 7:00 PM.  
Sponsored by the MIT Orthodox Christian Fellowship.  
For more information, call Mike at 225-7573.



# DECISION FOCUS INCORPORATED

## Career Opportunities in Management Consulting

DFI is a management consulting firm specializing in applying quantitative management science to help clients improve profitability and performance and gain strategic advantage. DFI has proven expertise in a number of areas including transportation and travel-related industries, electric power, oil and gas, and environmental decision management.

DFI seeks highly motivated candidates (B.S., M.S., M.B.A. and Ph.D.) who have strong problems solving and analytical skills, a high degree enthusiasm, excellent written and oral communication skills and a desire to interact with clients and have an impact on the clients' organization. Background in quantitative management science such as decision analysis, operations research, mathematical modeling, economics, or business is essential as is the ability to use computer as analytical tools.

DFI will be interviewing in Boston in March 1994. To request an interview, send resumes and transcripts to:

Bhavit S. Desai  
Decision Focus Incorporated  
650 Castro Street, Suite 300  
Mountain View, CA 94041  
(415) 960-3450

DFI is an Equal Opportunity Employer

*Winter got you down?*

Let in more light  
with MIT Optical's  
high quality lenses

**\$20 off**

on order of complete pair  
of prescription eyeglasses  
Sale good thru Feb. 25  
(not valid with any other discount)

# MIT Optical

Open 9am-6pm, M-F  
Stratton Student Center  
617-258-LENS

*Quality eyewear at reasonable prices*

# Men's Tennis Plays Well in Spring, but Struggles in Fall

Roundup, from Page 15

Four-year letter winner: Manish Bhatia '93

Record: 8-7 (Combined seasons)  
The team started out its spring season quite well, but ended up with disappointing results. During the spring campaign, the Engineers had lost only one match against Division III schools until the final two dual meets, with crushing losses at the hands of Williams College (6-3), and Amherst College (5-4). As a result, the team was denied its third straight trip to the NCAA Division III Championships, and finished ranked 19th in the nation in Division III, lower than in past years.

However, some members of the team turned out some remarkable individual performances. Walpole became the first MIT tennis player to be named an All-America in both singles and doubles. He and Muelhoefer, the team's top doubles pair, were for most of the season, at the top of the national rankings, and gained an entry to the individual tournament of the NCAA Championships. Bhatia, who never played lower than Number 2 singles in his career at MIT, qualified for the singles tournament, along with Walpole. Muelhoefer and Walpole reached the semifinals of the NCAA's, losing a close two-setter to the eventual champions, from Claremont College. The duo finished the season ranked fourth in Division III, and Walpole (22nd) and Bhatia (49th), both attained

national rankings in singles. In the previous fall season, Muelhoefer and Walpole had won the 1992 Rolex National Small College Division III Doubles Championships.

The graduation of Bhatia and Walpole gave the team a new look in the Fall portion of the 1993-94 season, as two freshmen occupied the bottom two starting positions to fill the void left by the top two players. Things did not look bright early on, when the Engineers were blown out by Division I opponents Boston College and Boston University. However, the team managed to win all of its matches against Division III competition, defeating Babson College and Clark University, to finish the fall season at 2-2.

The highlight of the fall season was the Rolex New England Regional Small College Tennis Championship, held at MIT, where Muelhoefer and Nick Tsai '94 made a miraculous comeback victory in the finals against a team from the US Coast Guard Academy. As a result, the duo earned a trip to the Rolex National Small College Tennis Championships. It was a return trip for Muelhoefer, who he won his third consecutive title in the regional tournament, with three different partners. He also managed to reach the semifinals of the singles tournament after coming close to elimination twice in the earlier rounds. Unfortunately, Muelhoefer and Tsai, who had come into the national tournament with high expectations, were eliminated in the first

round. However, they were able to salvage a seventh place finish, which placed them currently ranked ninth in Division III in doubles. The team is presently ranked 25th in the nation among Division III schools.

## Women's Tennis

Captain: Spring, Claudia Hung '93; Fall, Valerie Tan '94

MVP: No selection

Four-year letter winners: Pratima Rao '93, Sue Bach '93, Seema Jayachandran '93, Hung

Record: 10-6 (Combined seasons)

In terms of competitive success, 1993 was the best year ever for the team, according to coach Candy Royer. A team qualification to the NCAA Division III Championship Tournament earned by a virtue of a 14-5 record was the unquestioned highlight of the year for the women's tennis team. The team had never before qualified for the NCAA's and the 14 wins represented a tie for the highest win total in a single season for women's tennis.

In the fall, the team got off to a quick start, winning its first eight matches. Unfortunately, back to back New England Women's 8 conference losses to Smith College ended the hopes of an unbeaten season. However, revenge was sweet in the NEW 8 Tournament, however and the Engineers rolled through Wheaton College, Smith, and Brandeis on the way to MIT's first NEW 8 tennis championship. Sue Bach '93 and Janet Chen '94 were named to the All-Conference team in singles, and Bach and Valerie Tan '94 were selected in doubles as well. Candy Royer was voted coach of the year.

The Engineers traveled to Northfield, Minn., for the NCAA Division III Championships. The team suffered setbacks to the University of California, San Diego (9-0), and the

College of St. Thomas (6-3), before defeating Smith College, to finish the season ranked 11th in the nation.

Individual players in the national rankings at the end of the '92-'93 were Frederica Turner '95 at number 34 in singles, and Turner and Tan were the 22nd ranked Division III doubles team. The squad chose not to select a most valuable player.

The fall campaign of the 93-94 season went quite well for the team, with a ninth-place finish at the New England's, and a third place finish in the NEW 8 Conference. The team competed in the New England tournament without the services of its number one singles player, Frederica Turner '95, who is currently ranked ninth in the East. The team's post-seasons hopes were derailed with a 4-3 loss to eventual champion Brandeis University in the NEW 8 tournament.

## Men's Indoor Track and Field

Captain: Dan Corcoran '94

MVP: Mike Piepergerdes '93

Record: 11-1

1993 saw the birth of the Quad Cup, a series of meets between the best track teams in the New England to determine the best "dual meet team." MIT track was undefeated going into the last meet as was Williams College. Williams proved to be a little too strong, but MIT finished the regular season with a respectable 11-1 record. Championships were again a strong point as the Engineers finished 6th in the National Championships due to a 2nd place finish by Matt Robinson '94 in the pole vault with a new varsity record of 16' 3 1/2" and a 3rd place by Mike Piepergerdes '92 in the 1,500-meter run.

## Men's Outdoor Track and Field

Captains: Jay Chiang '94, Dan Corcoran '94

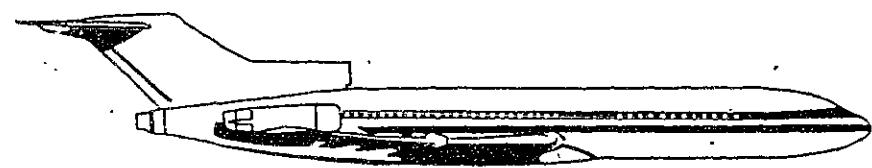
MVP: Mike Piepergerdes '93

Record: 6-1

As the track team headed outdoors they took their aspirations with them. Because of a lack of sprinters and quarter-milers the Engineers did not expect to do as well as they did indoors. Hard work and great competitiveness proved that expectation incorrect. The regular season was an average 6 and 1, but was highlighted by a very inspirational victory over Division II opponent Springfield. The team set 20 personal bests in that meet. The Championships saw a less talented team defeat many top teams in the New England Division III Championships for a third place finish, narrowly missing second place. At the National Championships MIT continued its successful ways. Mike Piepergerdes ran very well in winning his trials in the 1,500-meter, but had some complications due to graduation. Mike flew back to MIT right after his trials and flew back to Cleveland immediately after graduation because his final was 1 1/2 days after his trial. This did not seem to affect Mike as he ran a perfect race to finish second to the defending national champion in a school record of 3:50.36.

Matt Robinson showed remarkable courage by vaulting well enough to make the finals in the pole vault despite a very badly sprained ankle. He actually limped down the runway before vaulting, and considering vaulting's dependence on speed, his accomplishments were remarkable. In the finals they changed the pit around because of a change in wind direction, thus delaying the start of the event by an hour. By this time Matt's ankle was cold and even more swollen, leaving him unable to get off the ground.

Roundup, Page 13



# 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, Viasa, or even shuttle flights.

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

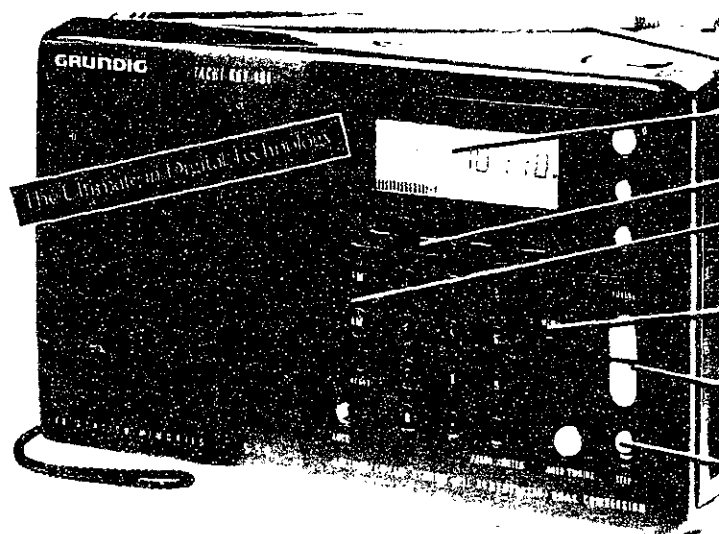
**Thomas Cook** **CRIMSON TRAVEL**

One Broadway • CAMBRIDGE

Open Monday - Friday 8:30 am-5:00 pm

# 868-2666

# CATCH THE WORLD WITH GRUNDIG



- Built-in antennas plus external antenna jack
- Covers all shortwave bands and frequencies
- Clock, alarm and sleep timer
- Receives FM-stereo, AM and LW
- Single sideband circuitry (SSB)
- 40 memory presets
- Tone and bandwidth control
- PLL Synthesized tuning
- Selectable tuning steps

Wherever and whenever news is happening, Grundig will be there with digital technology that stretches to the farthest corners of the globe, brings back the news with striking clarity, before the ink has dried on the newsprint.

The YB-400 has been described as the ideal shortwave radio with superior FM and audio quality. The continuous shortwave from 1.6 to 30 MHz covers all existing shortwave bands with no tuning gaps. Amateur radio plus military and commercial air-to-ground and ship-to-air broadcasts on shortwave are also within reach. FM stereo, AM and longwave multiply your listening options. Phase-Lock-Loop (PLL) frequency, synthesized tuning and digital display assure solid frequency stability.

40 memories mean the YB-400 remembers your favorite stations even if you forget. Multi-function LCD simultaneously displays time, frequency, band and more. The keypad itself is a marvel of performance. It's intelligently designed and easy to use. While overseas or traveling close to home, Grundig will help you get to breakfast on time, with a programmable alarm. Also features receptacles for external antenna and headphones (9V AC adapter not included). It's no wonder that this impressive radio is rated at the top of its class.

**The Coop**  
M.I.T.

The Coop at Kendall Square  
3 Cambridge Center  
Mon-Fri 8:45-7:00  
Thur Til 8:30  
Sat 9:15-6:00

**ONLY**  
**\$249<sup>99</sup>**

# Women's Track and Field Ends Season with Perfect 4-0

Roundup, from Page 12

## Women's Outdoor Track and Field

Captains: Gowri Rao '93, Kelly Sullivan '93

MVPs: Mari Madsen '96 and Kristin Ratliff '95

Record: 4-0

A perfect 4-0 record which came as a result of wins in two triangular meets gave the women's track and field team a very strong showing for a second year varsity program. The Engineers took a tight meet over Worcester and Rensselaer Polytechnic Institutes and followed that with a win over Bentley College and Brandeis University.

Invitational and championship meets followed, and the inexperienced Engineers proved to be talented beyond their years. At the New England Division III Championships the team finished 11th out of 30 teams. In the weight events, Kristin Ratliff '95 and Jenn Boyle '96 finished second in the discus and shot put respectively. The mile relay team capped a fifth place.

The following week at the Eastern Collegiate Athletic Conference Division III Championships Ratliff and Boyle again shone. Ratliff took third in the discus with a school record throw of 127' 7" and fourth in the shot put with a heave of 35' 9-1/2". Boyle captured the championship of the meet with a shot put of 37' 0" and a new school record.

## Men's Volleyball

Captain: Satoshi Asari '93

MVPs: Tom Klemas G, Danny Alvarez '93

Four-year letter winner: Klemas

Record: 14-11

The men's volleyball team performed quite well under the direction of new head coach Cindy Gregory. The team's record included a second place finish in the New England Collegiate Volleyball Elague, a third place in the Eastern Intercollegiate Volleyball Association Division III Championship and a consolation victory in the EIVA Open Tournament.

There were several individual achievements. Tom Klemas G was named to two all-tournament teams and was selected as an EIVA All-Star. Danny Alvarez '93 was an all-tournament selection at the EIVA Open Tournament, and Satoshi Asari '93 played to all-tournament recognition at the Roger Williams Tournament.

## Women's Volleyball

Captains: Coleen Kaiser '94, Jill Keidl '94

MVPs: Kaiser, Kamilah Alexander '96

Four-year letter winners: Kaiser, Julie Han '94

Record: 28-8

Although winning championships is nothing new to the MIT women's volleyball team, 1993 provided the opportunity for the Engineers to win a title which had thus far eluded them. The team played like it was on a mission as it brought the 1993 Eastern Collegiate Athletic Conference Division III North crown to MIT. The ECAC title is the first for an MIT women's volleyball squad.

A 28-8 record on the year which included a perfect 7-0 regular season New England Women's 8 Conference record sent the Engineers into the conference playoffs as the first seed. An upset loss to Wheaton College (a team the Engineers had defeated twice during the regular season) in the tournament finals denied the squad a NEW 8 championships. The opportunity for redemption came quickly for the Engineers as they were selected as the second seed in the ECAC Tournament and the tournament's host.

In an impressive performance, the Engineers upended Amherst College and Tufts University to set up a revenge match against Wheaton. MIT prevailed 3-1 to win the ECAC Championship. Alexander was named the tournament most

valuable player. Alexander was also named the NEW 8 Player of the Year and a first team All-New England selection. Teammate Coleen Kaiser '94 also made the NEW 8 All-conference team and was an honorable mention All-New England pick. Coach Cindy Gregory was named NEW 8 Coach of the Year

## Water Polo

Captains: Jeff Ma '94, Greg Shank '94

MVP: Shank

Four-year letter winners: Shank, Alan Liu '94

Record: 8-14

As long as the MIT water polo squad was able to compete with Division III competition like itself, the Engineers had a .750 winning percentage. It was when MIT stepped up with the "big boys" that the 1993 squad found the going to be tough.

A 3-1 record against Division III competition including victories over the Merchant Marine Academy (15-9), Bowdoin College (21-4) and Williams College (13-10) were the highlights of the Engineers' season. MIT finished third in the Eastern Division III Championship Tournament which the Engineers hosted. Johns Hopkins University, in the semifinals of the tournament, was the only Division III team to defeat MIT. During the course of the season the Engineers also defeated Boston College three times, Fordham University and St. Francis (NY) College.

Despite the less than successful record achieved by the team, three members were named to the Division III All-America teams. Javier Nazario '95 was a first team selection, while Alan Liu '94 and goalie Evan Weiss '96 were named to the second team.

## Wrestling

Captains: Spring, Jeff Breedlove '94, Randy West '93; Fall, Breedlove, Andy Phelps '95

MVPs: Chandler Harben '95, Drew Rideout '95

Record: 9-6-1 (Combined 1992-

93 and 93-94 seasons)

In the 1992-93 season, the wrestling team finished 10-7 overall (7-5 in the New England College Conference Wrestling Association), maintaining its streak of winning seasons since 1979.

After a 2-2 record in the first semester, the Engineers began the year on a positive note, winning four of five matches. Included in that string was the team's second win of the year over Division II

American International College.

The Constitution Athletic Conference Championship meet followed, and the Engineers surprised the field by finishing second in the Conference. Rideout was the only MIT wrestler who won the CAC title, but a big win over Norwich University and a major upset of the Coast Guard Academy enabled the team to take second place.

The New England Division III Championships finished the season

and the Engineers performed very well. Four wrestlers were among the top six in their respective weight classes with Chandler Harben '95 (190 lbs.) placing second, Rideout third, and sixth place finishes for Jeff Breedlove '94 (167 lbs.) and John McCloy '96 (190 lbs.). Harben and Rideout were co-MVPs, and Breedlove was named to the NCAA Division III Wrestling Coaches Association Scholar/Athlete team.

## The MIT Folkdance Club presents Beginners' Nights

Come learn fabulous dances from many areas of the world!

**Absolutely NO EXPERIENCE NECESSARY!!!**

No partner needed, either!

### International Folk Dancing:

Sunday,  
13 February  
and Sunday,  
20 February

### Israeli Dancing:

Wednesday,  
9 February  
and Wednesday,  
16 February



All Beginners' Nights in  
La Sala de Puerto Rico  
Second floor of the Student Center

Dances start at 7:00 PM.

## It takes a special kind of talent to revolutionize an industry— the talent behind Parametric Technology Corporation's Pro/ENGINEER.

Talk about performance and you're talking about Parametric Technology Corporation.

You're talking about next generation design automation tools that have redefined the capabilities of mechanical CAD—and continuing dramatic growth by a company whose

**PTC.**

**Where the Power of  
CAD/CAM Comes to Life**

We offer a variety of career paths for high-energy

achievers with majors in MECHANICAL

ENGINEERING, MANUFACTURING ENGINEERING,

COMPUTER SCIENCE and APPLIED MATHEMATICS.

If you're about to complete your Bachelor's or an

advanced degree, get a head start on your future

by talking to PTC.



**WE WILL BE ON CAMPUS  
FEBRUARY 23RD**

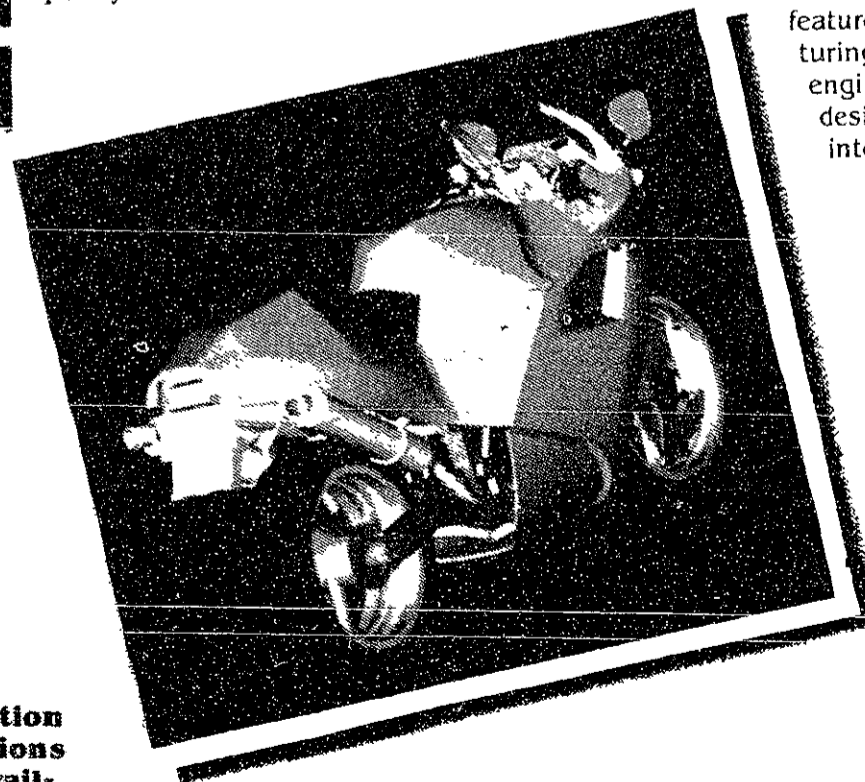
\$163 million sales represent

an increase of 88% in the

past year alone.

Pro/ENGINEER software's parametric, feature-based solid modeling technology is well-suited to complex design projects. This motorcycle design model contains 200 total parts, including 150 unique parts and 37 subassemblies. Each part incorporates as many as

90 intelligent features capturing the engineer's design intent.



**For information  
about positions  
currently avail-  
able, please sign  
up at your Career Placement Office for an on-campus interview, or  
send or fax your resume to: Human Resources, Dept. CR, Parametric  
Technology Corporation, 128 Technology Drive, Waltham, MA 02154.  
FAX: (617) 736-9674. An Equal Opportunity Employer.**

# Women's Sailing Qualifies for Collegiate Nationals

Roundup, from Page 16

State University of New York Maritime College, but then lost four consecutive meets. Army handed three of the losses, while the U.S. Naval Academy delivered the fourth defeat.

The team then won two consecutive meets before losing two straight meets at the end of the season. The Engineers gained another victory over the Maritime College, then a defeat by the Merchant Marine Academy. Both of the following losses were close decisions to the Coast Guard Academy.

Despite losses in the fall to Army, Navy, and Coast Guard, coach Pat Melaragno has high hopes for the team in the 1993-94 season. Melaragno sees a good chance of his team qualifying for the Intercollegiate Pistol Championships, at the Olympic Training Center in Colorado Springs, Colo., next spring. Kyle Blasch '94, Jason Zhu '95, and Ben Leong '97 have been major contributors and are expected to be contenders at the event, for both team and individual honors. Leong had never shot before coming to MIT.

#### Rifle

Captain: Dorian Balch '94

MVP: Arthur Merritt '95, second consecutive award

Record: 39-16

The MIT Rifle team achieved 36-14 record in the spring season to establish a position of one of the Institute's top teams. The team was mediocre in shoulder to shoulder competition (where competitors

shoot next to each other), but won all of its postal matches (targets and scores exchanged through the mail to cut down travel time and expense).

The team qualified for Expert Division of the Mid-Atlantic Conference Rifle Championship for the first time in the coaching career of head coach Dick Dyer. The Engineers won the title at the Championship, with a postal win over DePaul University, by only nine points.

The team amassed a record of 18-6 in the fall portion of the 1993-94 season. Dyer said the record was better than expected because many members were out due to injuries and illnesses.

#### Varsity Sailing

Captain: Eric Rueckwald '93

MVP: Rueckwald

Four-year letter winners: Michael Bowers '93, Michael Bradshaw '93, Reuckwald

Although won-loss records are not kept in the sport, the MIT sailing team produced results that earned a ranking of 19th in the nation.

The team started out the 1992-93 season strongly under new coach Fran Charles. The January graduations of Mike Bradshaw '93 and Mike Bowers '93, who had contributed so much in the fall, affected the team's performances in the spring. However, the team doubled in size between the fall and spring seasons.

Paula Lewin '93 and Gina Middaugh '93 finished second in the A Division of the New England cham-

pionships and were named honorable mention All-Americans for the varsity season.

Also in the spring, MIT placed fourth in the Owen Trophy and fifth in the Dinghy Cup regattas.

The Engineers are looking to expand their racing program in the fall to include sloop racing.

#### Women's Sailing

Captain: Paula Lewin '93

MVP: Lewin

Four-year letter winners: Lewin, Regina Middaugh '93, Pamela Pauffer '93

For the first time since 1976, the women's sailing team qualified for the collegiate national championships. Paula Lewin '93 and Gina Middaugh '93 led the team, and even spent some time on the varsity sailing team. The pair won the A Division in each of the major women's interseasonal regattas held throughout the Spring season.

The team, which was ranked as high as third in the country, took fourth place and the final qualifying spot in one of the most competitive New England Championships ever. In the national championships, an event that feature eight of the top fifteen teams in the nation, the Engineers finished sixth. Lewin and Middaugh tied for the A Division title and the MIT B Division entry captured 10th place.

Lewin was named an All-American, while Middaugh was named to a national all-star crew position.

#### Men's Skiing

Captains: Todd MacFarland G, Westley Sherman '95

MVP: Westley Sherman '95

Four-year letter winner: MacFarland

Record: 28-20

Westley Sherman '95 led the way for the team, placing second in the 10K classical cross country and fourth in the 20K freestyle at the Eastern Intercollegiate Ski Association Division II championships. Sherman, Christian Lund '96, and Joel Sindelar '93 were each named to the All-East teams.

#### Women's Skiing

Captains: Kate Bergeron '93, Wendy Krause '93

MVP: Bergeron, fourth straight award

Four-year letter winners: Bergeron, Krause

Record: 18-30

The team looked to Kate Bergeron for leadership, as her feats spoke themselves. Bergeron won both the 5K classical and the 15K freestyle at the Eastern Intercollegiate Ski Association Championships. The 5K title was her second consecutive victory in the event.

Bergeron and Gwen Crevensten '93 were each named to the All-East team. The selection to the all-star squad was the fourth for Bergeron.

#### Men's Soccer

Captain: Jason Grapski '94

MVP: Grapski, second time

Four-year letter winner: Grapski

Record: 6-7

Three consecutive season ending defeats kept the men's soccer team from a winning record. The team's 6-7 overall ledger included a 1-4 mark in Constitution Athletic Conference play.

The Engineers were never able to put together any kind of winning streak through the season and were able to string together two consecutive wins only twice. The season's highlights were a 3-2 overtime road victory against perennially strong Brandeis University followed by a 4-1 CAC victory over Western New England College at home. A hard-fought 0-1 loss to Tufts University was followed by a 3-0 defeat of Curry College and capped the Engineers' most consistent play of the season. Other victims in 1993 were UMass-Boston, Nichols, and Trinity College. Five of the Engineers' seven defeats were by a two goal margin, the others by a single goal.

Jason Grapski '94, a back, had a stellar season for the Engineers. Grapski was captain and named the team's most valuable player for the second straight year. He was a first team selection to the CAC All-Conference squad. Brian DiVasta '95 and Sam Pearlman '96 were second team picks.

#### Women's Soccer

Captains: Emily Brown '96, Rebecca Hill '94, Chantal Wright '95

MVP: Hill

Four-year letter winners: Dionne Chapman '94, Teresa Chiueh '94, Brindha Muniappan '94

Record: 10-3-3

The 1993 women's soccer team kicked their way to a .767 winning percentage which is the best in the history of the program. Although the team was unable to match

1992's single season best ever 12 victory total, the 1993 squad did work its way to a 10-3-3 record.

The Engineers began the season with a nine-match unbeaten string. A loss to Smith College started the team on a streak of inconsistent results which saw the squad go 2-3-2 over the last seven games. The team was 2-2-2 in the New England Women's 8 regular season, but bowed out of the post season with a first round NEW 8 loss to Wellesley College. MIT had defeated Wellesley earlier in the season.

Becky Hill '95 was the team most valuable player and catalyst throughout the season. Hill was named a NEW 8 all star after leading the league in scoring, popping in seven goals and adding an assist in conference play. Hill had 19 goals and seven assists over the course of the season. Chantal Wright '95 was the second leading scorer with 10 goals and six assists.

#### Women's Softball

Captains: Colleen Johnson '93, Coleen Kaiser '94, Jennifer McMurray '93

MVP: Kaiser

Four-year letter winners: Johnson, McMurray

Record: 5-8

The team experienced problems with the weather, its own pitching, and defense, causing the disappointing final result. In one of the wettest Spring seasons on record, the team was not able to practice outside much, which would be reflected in its performances later on. The Engineers finished 3-4 in the New England Women's 8 Conference, having results such as two losses to Smith College, including an elimination from the NEW 8 Tournament.

However, there were some outstanding individual results. Coleen Kaiser '94 proved to be valuable at both sides of the battery. As pitcher, she had an earned run average in eight appearances. From behind the plate, she had a perfect fielding percentage in six games. Kaiser was the only team member to make the NEW 8 All-Conference team.

The team also had some hitters who made high run totals possible. Christine Polek '96 (.364), Dionne Chapman '94 (.357) and Jennifer McMurray (.355) all batted above .300 and were assets to the MIT offense.

#### Men's Squash

Captain: Spring, Matt Trevithick G; Fall, Safroadu Yeboah-Amankwah G

MVP: Trevithick

Four-year letter winners: Trevithick, Richard Wickham '93

Record: 8-8 (Combined seasons)

The 7-8 record that the team attained in the 1992-93 did not tell

Roundup, Page 15

## Software Engineer

We seek a hands-on software guru interested in real-time software design using the latest technologies. C++ is a plus.

LABTECH, started by former MIT professor Dr. Fred Putnam, is the leading company in real-time applications software for science, engineering & manufacturing.

Send cover letter and resume to:  
engmgr@labtech.com

or

Engineering Manager, LABTECH  
400 Research Drive  
Wilmington, MA 01887



**Avid Technology, Inc.**  
Metropolitan Park West  
Tewksbury, MA 01876

Avid Technology, Inc., based in Tewksbury, Massachusetts, is a global leader providing advanced digital media solutions for film, video and audio professionals in production and post-production facilities, television stations, advertising agencies, government agencies and corporations. Avid is a young company (founded in 1987) with a high energy "do anything" atmosphere. Our goal is to continue to build the best digital media solutions "From-Home-to-Hollywood".

Avid is looking for talented, highly motivated individuals to join our engineering teams. Our environment is characterized by small project teams where your contribution can make a big difference! If you are a highly motivated, high bandwidth individual with interests and experience in any of the following areas, we would like to speak with you:

- \*Multimedia
- \*Object-oriented programming
- \*Graphics and imaging
- \*Real-time software development
- \*Video networks and servers
- \*Video and audio compression
- \*Digital signal processing

On Thursday, February 10 at 6:30 pm, members of our engineering teams will be in Room 8-119 in Building 8 to talk about the company and to answer your questions. We will also be interviewing on Friday, February 10 in the Office of Career Services. Join us!

### SPRING BREAK Concerts & Skiing

At New York's Concord  
Resort Hotel

7 Day 6 Night Package Includes:

#### Free Concerts:

- Lemonheads, Run DMC,
- Fishbone, Violent Femmes,
- Wide Spread Panic,
- Mighty Mighty Bosstones,
- They Might Be Giants

#### Sports:

Sand Volleyball, Tennis, In Line Skating,  
7 Day Ski Lift Pass and more..

#### Fun Stuff:

Crazy Pool Parties, Tanning Beds,  
Night Clubs and more...

#### Food:

3 gourmet meals a day

\$425 For Info: 1.800.431.3850

# 13 Swimmers, Diver Place in Regionals

Roundup, from Page 14

about the success of MIT squash. The Engineers had gone up against some of the finest competition in the nation, and ended up ranked 14th nationally. The team's jump from 20th of the previous season, allowed it to earn the Barnaby Award, given to the most improved team.

Other accomplishments included having the second player in Institute history to be named All-America in squash, as number one player Matt Trevithick G was named to the second team. Another feat of the Engineers was a 6-3 victory over Tufts University, its first win over the Jumbos in 15 years.

Things did not look too good at the outset of the 1993-94 season when the Engineers were soundly beaten, 9-0, by the US Naval Academy, at home. However things improved for MIT, which ended 1993 with a 9-0 win over Colby College, to end up with a 3-2 record.

## Men's Swimming

Captains: Spring, Jim Bandy '93, Brian Meade '93, Rob Rockwell '93; Fall, Ted Achtem '94, Vijay Lathi '94, Alan Liu '94

MVP: Meade

Four-year letter winners: Bandy, Rockwell, Meade

Record: 3-5 (Combined seasons)

The highlight of the 1992-93 season was a foursome breaking two New England Records. The team of Jim Bandy '93, Chad Gunnlaugsson '93, Brian Meade '93, and Bob Rockwell '93 accomplished the feats in the 400-yard freestyle and 800-yard freestyle relays. In the same events, they finished eighth and sixth, respectively, in the NCAA Division III Championships.

For both the men's and women's swimming teams, the fall portion of the season is a time of rigorous workouts, in preparation for the numerous competitions in the spring. The team was 1-1 in dual meets; after easily defeating Salem State College, the Engineers had a tougher time against the Coast Guard Academy. Coach John Benedict attributed the result partly to not being allowed enough pool time to practice, due to various events that interfered with the schedule. However, the team managed to rebound and crush competition from Colby College and University of Massachusetts-Dartmouth, in the UMass-Dartmouth Invitational, the final event of

1993.

## Women's Swimming

Captains: Spring, Karen Pfautz '93, Christina Harada '94; Fall, Harada, Holly Goo '95, Clara Yang '95

MVP: Pfautz

Four-year letter winner: Pfautz

Record: 1-7 (combined seasons)

In most individual sports, a losing season does not necessarily mean that it was not a successful one. This was the case for a women's swimming team, who completed the 92-93 season with a 3-5 record. Even so, nine swimmers and one diver earned a trip to Wesleyan University for the New England Swimming and Diving Championships. They returned with an 11th place finish as a team, among a field of 31.

Karen Pfautz proved herself worthy of being voted most valuable player by taking a third in the 100-yard butterfly, and a second in the 50-yard butterfly, in the meet. Although she was edged in the latter event, she swam well enough to qualify for the national championships. Unfortunately, injuries prevented her from competing in the national event.

At the meet, two relay teams placed in the top eight. The team that swam the 200-yard freestyle relay team consisted of Pfautz, Holly Goo '95, Miranda Fan '95, and Christine Harada '94. Pfautz, Goo, Fan, and Clara Yang '94 made up the 400-freestyle relay team. Many of the swimmers who competed in the meet posted personal best times.

Off the springboards, Debbie Gustafson '95 performed well in her first New England. She placed fifth in the 3-meter competition, and 11th off the 1-meter board. Along with many team members, she would return the next year to do some more damage.

Despite posting a 0-3 record in dual meets during the first semester of the 1993-94, the Engineers still featured some impressive individual performances. Gustafson was again a force to be reckoned with in diving, as she routinely won both the compulsory and optional rounds of 1-meter springboard competition.

## Men's Tennis

Captain: Spring, Manish Bhatia '93, Alan Walpole '93; Fall, Jay Muelhoefer '94

MVP: Alan Walpole '93

Roundup, Page 12

## THE EUROPEAN COMMUNITY TODAY AND TOMORROW

A program in English June 8 - July 27, 1994  
at Sciences Po in Paris, France

FOCUSING ON EUROPE this multidisciplinary seven week program integrates political, managerial, and technological perspectives which enable graduate students in business, engineering, law, political science, international affairs, etc...to understand the impact and complexity of European integration.

In 1993 students from the following universities participated in the program: Berkeley, Chicago University, Columbia, Cornell University, Georgetown, Georgia Tech, Harvard Business School, Johns Hopkins, M.I.T., Northwestern Kellogg, Rutgers University, Stanford University, Virginia School of Law, Yale Law School.

THE PROGRAM COMBINES lectures, tutorials, case studies, and field trips to selected European firms and industries. The faculty is comprised of academics and experts from the EC and the professional world.

WITH THE ACTIVE PARTICIPATION OF THE FOLLOWING COMPANIES, THE PROGRAM OFFER THE OPPORTUNITY TO OBTAIN A PAID INTERNSHIP OF LONG TERM EMPLOYMENT IN FRANCE: Aérospatiale, Conseil Régional Ile-de-France, Crédit Lyonnais, Elf-Aquitaine, Eurogroup Consultants, Finacor, Générale des Eaux, Louis Vuitton-Moët Hennessy, Matra-Hachette, SCOR, S.N.C.F., SNECMA, SOFRES.

For further information write to:

ECSP/SCIENCES PO

27 rue Saint Guillaume 75337 Paris Cedex 07 France

Tel. (33) (1) 45.49.50.67/64. Fax.(33) (1) 45.49.51.91

Early decision deadline: February 22, 1994

Final deadline: April 15, 1994

Information session with  
Dr. Patrick Weil, Program Director

HARVARD BUSINESS SCHOOL  
ROOM ALDRICH 108

FEBRUARY 14, 1994 — at 4:00 p.m.

# Bloomberg

FINANCIAL MARKETS  
COMMODITIES  
NEWS

## We're Looking for Tomorrow's Innovators

### THE FIRM

Bloomberg L.P., a leading financial information firm, providing sophisticated data and analysis to investment professionals, and major companies around the world.

### THE POSITION

Software Developers/Financial Analyst/ System Programmers for our entry-level training program in New York City and Princeton, NJ.

### REQUIREMENTS

Technically oriented, BS or MS in finance, economics, computer science, engineering and/or mathematics background, at least two semesters' or equivalent programming coursework and knowledge of C, Pascal, Fortran or similar language.

### FOR MORE INFORMATION

Speak to your career center representative for our videotape and additional written materials.

### INTERESTED?

Please drop off your resume at your career center.

**February 28  
is your last chance  
to catch the waive**



**MIT students  
pay for  
individual  
health insurance**

**unless they file a waiver by February 28  
Family enrollment also ends February 28**

**To find out more,  
stop by E23-308 or call 3-4371**

**mit student health**

## SPORTS

## Squash Breaks Losing Streak against Babson

By Daniel Wang  
ASSOCIATE SPORTS EDITOR

The squash team broke a three-game losing streak Thursday, by shutting out Babson College, 9-0, at the DuPont Gymnasium. The team earned its first win in 1994 and improved its record for the season to 4-5, overall.

Each of the MIT players performed well, limiting their opponents to single-digit scoring in at least one game of every individual match, and losing only one game in all nine matches. John de Souza G at fifth singles gave up the least

number of points at 15. De Souza never quite let his opponent into any of the games, winning 15-7, 15-2, and 15-4. Friedman came close behind, losing only 17 points, in a 15-2, 15-9, 12-4 blowout. In his match, he had run up leads of 9-0 and 13-1. In the final game, he broke a 4-4 deadlock by winning 11 points in a row.

Other highlights included superb performances from the top two players, Irfan Chaudhry '96 and captain Saffradu Yeboah-Amankwah G. Chaudhry won the first game, 15-8, but then ran into some trouble in the

second game, as his opponent forced a 13-13 tiebreaker. Chaudhry ended up winning the game, 18-14, then cruised through the final game, winning with a score 15-7. Yeboah-Amankwah had an easier time, winning with scores of 15-3, 15-6, and 15-10. In a match that was never close, he had leads of 8-0 in the first game, and 8-1 in the second. Interestingly, both Chaudhry and Yeboah-Amankwah were recovering from knee injuries, which left coach Jeff Hamilton doubtful about even having them play in the match.

At the sixth position, Amit Desai

'94 played while recovering from a flu, and had to struggle before pulling out the match, which included two tie-breakers. Desai started off quickly by capturing the first game, 15-4. His opponent then fought back to win 17-15. Desai soon retaliated by taking the third, 15-7, causing his opponent to take a break between the third and fourth games. The break gave Desai a chance to recover from a visible state of exhaustion. In the last game, he fought valiantly, and was able to chase almost every ball down. His opponent's greatest efforts seemed to return the ball

right to him. Desai forced enough errors late in the game to win the tie breaker, and the match, 15-4, 15-17, 15-7, and 18-15.

The team will play almost every dual meet at home this month, before heading to the National Intercollegiate Squash Racquets Association Team and Individual Championships at Yale University. The next few matches will be a chance for the Engineers to earn a higher seeding in the team competition there. They will play this afternoon against Tufts University, and then next week against Harvard University.

## The 1993 Year in Review Sports Roundup Continues

By Daniel Wang  
ASSOCIATE SPORTS EDITOR

Because of a production error, a section of the Year in Review sports roundup [Jan. 28] was omitted. The missing section is reprinted below.

## Women's Gymnastics

Captain: Julie Lyren '93

MVP: Lyren

Four-year letter winner: Lyren

Record: 0-6

The 0-7 record that the team had at the end of the 1992-93 season overshadowed a number of remarkable performances. Competition included Division I schools such as the University of Vermont, Yale University, and Brown University. The Engineers consistently scored between 140 and 150 at each meet, but were no match for their stronger opponents.

Julie Lyren '93 had the best individual season in the history of MIT women's gymnastics. She set records in the all-around and balance beam, and tied school marks in the vault and floor exercise. Her performance made her the first MIT woman to qualify for the USA Gymnastics Division II-III Championships. At the competition, she was named a USA Gymnastics Scholar Athlete.

Lyren and Karen Oda '93 were each named National Collegiate Gymnastics Association (NCGA) All-America Scholar/Athletes. Janet Solod '96 was another major contributor, being the first MIT first year woman to qualify for the NCGA Championships.

## Men's Ice Hockey

Captains: Spring, Mike Mini '93, Rob Silva '93, Nick Pearce '94; Fall, Jason Biederman '94, Pearce

MVP: Pearce

Record: 9-8-3 (Combined seasons)

The offense was strong for the ice hockey team in the 1992-93 season, as it outscored opponents 125-76, and earned a record of 12-6-1 for the season. Rob Silva '93 had the most notable performance, leading the New England Collegiate Club Hockey Association (NECCHA) in scoring with 14 goals and 15 assists.

When the Engineers returned to the ice to begin the second semester of the season, they lost four of their first six games, but then went on to five games in a row. Their efforts propelled them into the NECCHA Championships. Unfortunately, Springfield College shattered title hopes of the Engineers by defeating them 6-4 in the first round.

The first half of the 1993-94 season seemed to be a frustrating one for the Engineers as they went five games before capturing a win, which came against Worcester Polytechnic Institute, 5-2. The team opened the season at home against Franklin Pierce College, in a game that featured a capacity crowd, and hard-hitting excitement. Unfortunately, MIT fell in that game 2-4. Ties were a major source of frustration, as the Engineers had three of the next four games. The week before final exams, the pucksters

were demolished by the Wentworth Institute of Technology, 11-2, in their final game of 1993.

## Men's Lacrosse

Captains: Stephan Feldgoise G, Pete Santoro '93, Ryan Blanchette '94

MVP: Santoro

Four-year letter winners: Santoro, Rob Silva '93

Record: 9-4

The Engineers' 9-4 record was one of the finest men's lacrosse ledgers in recent seasons and was powered by a strong offense and a better than average defense. The Engineers finished the year ranked 10th in the New England Division III poll and were well represented on season ending all-star teams.

It was a season of streaks for the stickmen as they ran off four straight wins to start the season. Following the next three games, the record stood at 4-3, but MIT then accumulated four more consecutive victories. Following a heartbreaking 13-14 loss to defending champion Roger Williams College, the Engineers finished the season with a satisfying 13-6 stuffing of Nichols College. The team finished second in the Pilgrim League to Roger Williams.

Rob Silva '93 became the all-time leading goal scorer and total point leader in MIT lacrosse history. Silva's 1993 totals of 34 goals and 26 assists gave him career totals of 111 goals and 173 points. Silva and Stephan Feldgoise G were named

Pilgrim League All-Stars, and Silva, Feldgoise, and most valuable player Pete Santoro '93 were each named to the New England East-West All-Star Game.

## Women's Lacrosse

Captain: Stephanie Spencer '93,

Susie Ward G

MVP: Ward

Record: 8-5

In only the second year of existence as a varsity sport at MIT, the women's lacrosse team finished the 1993 season with an impressive 8-5 record. The Engineers also defeated Babson College and Wheaton College for their first New England Women's 8 regular season wins.

The team began the season well with a 10-1 victory over Elms College, but a game with eventual NEW 8 champion Mt. Holyoke College evened the won-loss record very quickly. Three times during the season the squad was able to piece together two consecutive wins.

Susie Ward G was the team captain, led MIT in scoring and was named most valuable player for the second straight year. Ward tallied 27 goals and 4 assists on the year and was named to the NEW 8 All-Star team. Helen Azrin '94 (26 goals, 4 assists) and Ann Torres '96 (21,11) were other top scorers.

At the conclusion of the season, Ward and Allison Marino '96 were named to the Intercollegiate Women's Lacrosse Association Academic Team.

## Pistol

Captains: Spring, Ari Mozes '93; Fall, Kyle Blasch '94

MVP: Mozes

Four-year letter winner: Mozes

Record: 4-9 (Combined seasons)

The schedule for the 1992-93 season for the Engineers consisted of entirely service academies. The team started out with a win over the

Roundup, Page 14

## UPCOMING HOME EVENTS

## Tuesday, Feb. 8

Squash vs. Tufts University, 4 p.m.

Men's Basketball vs. Tufts University, 7:30 p.m.

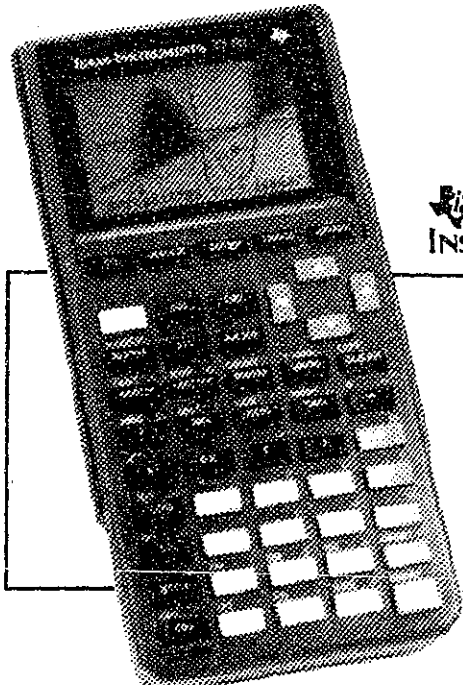
## Thursday, Feb. 10

Women's Basketball vs. Worcester Polytechnic Institute, 7 p.m.

## Friday, Feb. 11

Wrestling vs. Plymouth State College, 7 p.m.

## These Coop Values Really Add Up!



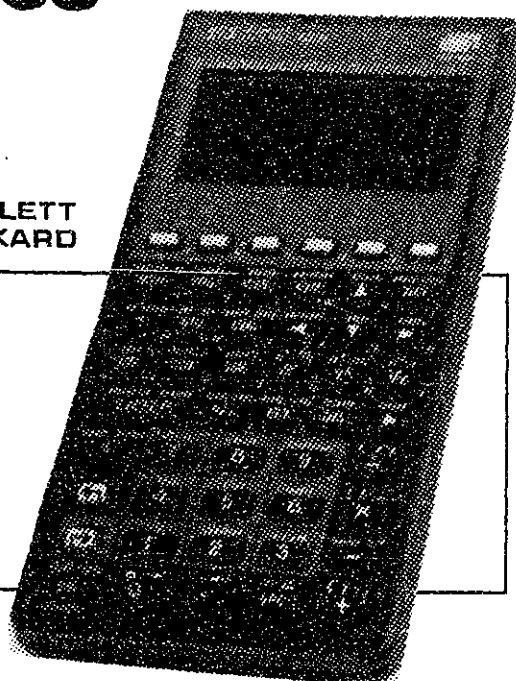
TEXAS INSTRUMENTS

## Sale \$69.99

## Texas Instruments TI-81 Graphic Calculator.

Sets the standard for ease of use in algebra and precalculus. Large, 8-line by 16-character display shows entire expressions. Defines, saves and graphs up to 4 functions or 3 parametric equations at one time. 7 built-in zoom features. 6 x 6 matrices. One- and two-variable list-based statistics. Saves up to 37 programs totaling 2,400 bytes. Durable slide case. Reg. \$79.99

hp HEWLETT PACKARD



## Sale \$269.99

## Hewlett Packard

## HP-48GX Graphic Expandable Calculator.

Features 128K ram for complex problem solving, hundreds of built-in equations, HP EquationWriter, graphics and calculus combined like never before on a calculator. Optional plug in application cards. Reg. \$299.99



The Coop at Kendall Square  
3 Cambridge Center  
Mon-Fri 8:45-7:00  
Thur Til 8:30  
Sat 9:15-6:00

Look for us on MTV and ESPN

Spring Break '94

**CANCUN** from \$399!

One Week Party Package Includes:

- Round trip airfare
- 7 nights hotel
- Airport transfers
- Hotel taxes
- Exclusive orientation
- Snack on location

Other Locations:

- Jamaica
- South Padre Island
- Bahamas
- Daytona / Key West

Sponsored By:

- Mexico Magico
- Tequila Rock
- La Boom
- Fal Tuesdays
- Senior Frogs
- Carlos n Chaites

\$150 • Reduced/low cover club admission  
Free • Express entry • Free/reduced drinks

LIMITED SPACE! 800-786-8735 OR 617-647-7238 CALL TODAY!

ATTENTION SENIORS  
POSITION AVAILABLE IN THE  
ADMISSIONS OFFICE AS AN  
ADMISSIONS COUNSELOR

The Office of Admissions is now accepting applications for the position of Admissions Counselor. This is a one year full-time position beginning in July, 1994 (some flexibility is possible). Duties will include:

- conducting question and answer sessions
- interviewing prospective applicants
- visiting secondary schools
- coordinating MIT student involvement in reception area
- participating in admissions committee decisions

Applications for this position are available from Robin Dey in the Admissions Office (3-108) and should be returned no later than March 1, 1994.

Note: This is for 1994 (January or June) MIT graduates.