

Mike Niles

Arnold Contreras '87 at Friday's pro-divestment rally.

Corporation meets with CAA

By Andrew L. Fish

Twelve members of the MIT Corporation met with representatives of the MIT Coalition Against Apartheid after the quarterly Corporation meeting. Several Corporation members explained the logic of their investment policy, while CAA members attempted to make a case for MIT's total divestment of investments in companies with South African operations.

The CAA demanded that MIT divest itself of its \$150 million in holdings in companies "which profit from apartheid." If the Corporation should refuse to divest, they should hold a public forum where they would explain their reasons, the CAA requested.

was not a result of campus protests. "This is not related in any way to external pressures," he said.

However, Dorothee Benz, a member of the Southern Africa Solidarity Committee, countered, "The divestment is a sign that student protests do work. Our goal is total divestment, so it was a partial victory."

Jean Alonzo, a Harvard alumnus and member of the 350th Coalition for Divestment, said, "In the past, Harvard has said it has no intention to divest." The divestiture therefore appears to be a direct result of student protests, Alonzo argued.

Alumni Association President Joseph G. Gavin Jr. '41 said, "We really cannot and should not not divest." The Corporation is "responsible for prudent management of the universities resources," Gavin said.

If MIT divested, the Corporation "would face a financial loss," and "may not have changed the situation one iota," Gavin said.

"I have not been convinced that the effect of divestment on South Africa would have any effect in comparison to the damage to the institution," said Corporation member Breene M. Kerr '51.

The Corporation invests in companies "in spite of their South African operations," Kerr claimed. Although he admitted that South Africa was a bad place to do business, Kerr maintained that it would be irresponsible to divest.

Assistant Professor of Finance John E. Parsons argued that fiduciary responsibility was not a real defense for not divesting. "The difference between businesses primarily based in South Africa [which MIT will not invest in because they have not sufficiently complied with the Sullivan Principles] and others is not fiduciary," Parsons said.

Parsons was also skeptical that divestment would be costly. He said that the assertions of Treasurer Glenn P. Strehle '58 that divestment would cost \$10,000,000 were "ridiculous."

Corporation member Rhonda

E. Peck '82 saw "damage greater than the portfolio." It would be hypocritical for MIT to accept gifts from companies it had divested of, and MIT could not survive without these gifts, she asserted.

CAA members took exception to this. "When I see people getting their heads bashed in I find it repulsive to be talking about money," said Marie Gilles-Gonzales G.

"Positive forces"

US Corporations were "one of the positive forces" needed to improve South Africa," Gavin asserted.

Arnold Contreras '87 noted that General Motors, a group rated in the highest category of compliance with the Sullivan Principles, "is refusing to pay all the black workers held under martial law," Contreras said. He asked how GM was a "positive force" in South Africa.

"My role is not to defend GM or Ford or anything like that," Corporation Chairman David S. Saxon '41 retorted. No other Corporation members would answer Contreras.

"By having investments there you are taking a stand," said Steven D. Penn G. He argued that MIT has "a moral and political responsibility" to divest. Institutions are "either for apartheid or against it," Penn asserted.

This analogy "is not logical," (Please turn to page 2)

Harvard sells South African stocks

By Earl C. Yen

Harvard University has begun divesting itself of approximately \$160 million in stocks and bonds in US companies doing business in South Africa, university officials announced on Oct. 2.

The divested companies failed to meet Harvard's investment standards for businesses operating in South Africa, according to Peter Costa, director of Harvard's news office.

"In July and August, Harvard advised the companies that it intended to divest its holdings," Costa said. The university's semi-annual report on shareholder responsibility said Harvard will sell its stocks in the following companies: Ford, Mobil, Texaco, Chevron, Exxon, Royal Dutch Petroleum, Schlumberger, and Phelps Dodge.

Harvard still holds \$369 million in South African-related stocks and bonds, out of a \$3.8 billion endowment, according to Roderick M. MacDougall, treasurer of Harvard and chairman of the Corporation Committee on Shareholder Responsibility. In order to curb losses, Harvard will stagger its sales of the stocks over

the next year, MacDougall added.

The report explained that the divestiture is part of a university policy that reflects "a clear commitment to avoid involvement as a shareholder in significant sales to the South African military and police of important products used in the direct enforcement of apartheid."

Harvard is divesting from the five oil companies because South African law prohibits the firms from disclosing information on sales of petroleum to the military and police, the report said.

The Corporation Committee on Shareholder Responsibility decided that such sales were probably taking place because the South African military and police need oil and South African law requires companies to supply such products to the government on demand.

Similarly, Harvard is selling its stock in Ford because the company's South African subsidiary is continuing to sell vehicles to the South African military and police, the report explained.

MacDougall said in the Oct. 3 *Boston Globe* that the divestiture

was not a result of campus protests. "This is not related in any way to external pressures," he said.

However, Dorothee Benz, a member of the Southern Africa Solidarity Committee, countered, "The divestment is a sign that student protests do work. Our goal is total divestment, so it was a partial victory."

Jean Alonzo, a Harvard alumnus and member of the 350th Coalition for Divestment, said, "In the past, Harvard has said it has no intention to divest." The divestiture therefore appears to be a direct result of student protests, Alonzo argued.

Massachusetts abortion referendum criticized at AWS/Pro-Femina forum

By Robert Adams

The Massachusetts referendum on abortion "is not a question of taxation, it is a question of free choice," asserted Alice Davis of the Campaign for Choice at an Oct. 2 forum. The Association of Women Students/Pro-Femina co-sponsored the forum which at-

tracted approximately 50 people to 54-100.

The proposed law "gives the state legislature the power to eliminate public funding for abortions, and it gives the legislature the power to regulate all abortions to the extent that the United States Constitution allows," Davis claimed.

The referendum states:

"No provision of the Constitution shall prevent the General Court from regulating or prohibiting abortion unless prohibited by the United States Constitution, nor shall any provision of the Constitution require public or private funding of abortion, or the provision of services and facilities therefor, beyond that required by the United States Constitution."

"The provisions of this article shall not apply to abortions required to prevent the death of the mother."

Davis described the wording of the proposal as "extremely convoluted and complicated." Furthermore, it is "a very, very extremist, anti-abortion piece of legislation," she said.

The referendum is particularly important because of the changing nature of the US Supreme Court, she continued. "The 1973 *Roe v. Wade* decision that legalized abortion was a 7-2 vote," but the latest vote on an abortion-related issue was only 5-4, she observed. If the court overturns its 1973 ruling and the Massachusetts referendum passes, most abortions would automatically become illegal in the state.

Lisa J. Greber '87, a member of AWS/Pro-Femina, added, "*Roe v. Wade* ended a century of dangerous backroom abortions." Women should demand the "total spectrum of reproductive choices," including "the control of pregnancy and childbirth, access to and education about safe and effective birth control, and control of the use of reproductive technologies," Greber said.

"We were wrong to think that rights that have once been granted can't be taken away again," she observed.

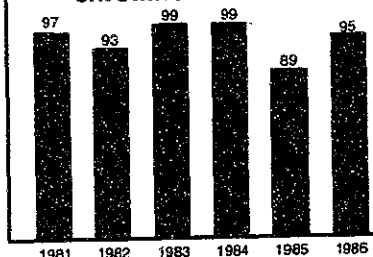
The abortion referendum will appear as Question One on the statewide Nov. 4 ballot.

US black grad enrollment declining

By Desmond Davis

Fewer blacks have been entering US graduate schools over the past 10 years, according to the US Department of Education's Center for Statistics. But MIT's black graduate enrollment has not been declining, despite the 19.2 percent decline nationwide since 1977.

Black graduate student enrollment at MIT



"Colleges and universities are not gearing students to further their education past the undergraduate level," said Clarence G. Williams, special assistant to the MIT provost and assistant equal opportunity officer. "The few blacks that enter a four-year university are not exposed to the advantages of a graduate education," he added.

A decrease in the number of blacks being awarded graduate degrees will lead to fewer black professors and teachers in the future, Williams warned. "Social and economic problems don't make education attractive as a profession [for blacks]," Williams said.

The decline is a particularly serious problem because black professors serve as role models and motivators, Williams said. Black students often have no encour-

agement to continue their education, he added.

In order to reverse this trend, "Pressure should be put on departments to attract young blacks to their professions," Williams asserted. "Universities and colleges need to become more receptive to working with blacks that aren't polished and refined."

"They must see each student as a great resource and put pressure on those that show effort," Williams continued. "Exposure to what graduate education is like should occur before the junior year of the undergraduate years."

John Turner, associate dean of the Graduate School and assistant provost, said that many blacks are not aware of the differences between graduate and undergraduate school. "Things are decentralized in graduate school. Each department has its own office of admissions, financial aid, and student centers."

"Most blacks are deterred from graduate school because they think it's difficult affording the cost," Turner said. "Financial aid is awarded on the basis of merit, not need. Most are admitted with research or teaching assistant fellowships which pay for their tuition and provides a salary."

The total number of black applicants for graduate school is (Please turn to page 15)

inside

Student Pugwash's survey: second in a series. Page 2.

What is the Center for International Studies? Page 2.

MIT's Experimental Music Studio on a crusade. Page 13.

Wellesley students abducted at gunpoint. Page 15.

Randolph G. Wei

Randolph G. Wei '87 died Sunday, Oct. 5, in his Burton House room.

Wei's friends found him early afternoon; he committed suicide some time that day.

Wei is survived by his parents, two sisters, and a brother. He was a life-long resident of Newton and had graduated from Newton High School before coming to MIT in the fall of 1983.

Wei was a senior, double-majoring in biology and chemistry, and was planning to attend medical school. He played the guitar and clarinet and had many other interests including table tennis, basketball, bicycling, and writing science fiction.

Memorial services are tentatively scheduled for Thursday at 2 pm in the MIT Chapel. A scholarship fund will be established for donations in lieu of flowers.

Survey reveals views on science

By Michael Gojer

Second of a two-part series.

A majority of MIT undergraduates believe that the lay public generally does not have the right to have input into the way experiments are conducted, according to MIT's Student Pugwash 1984 survey, whose results have just recently been released.

Fifty-one percent of the almost 700 respondents also assert that the general public should not have the right to help define which intellectual problems should be investigated, although nearly three-fourths were willing to grant the lay public a role in implementing the results of scientific research.

Almost half of the students polled thought this right should be limited to those who had some

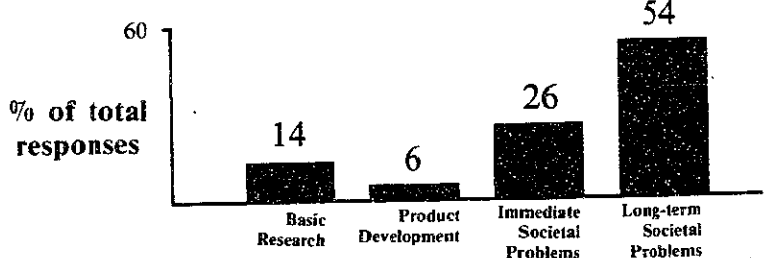
minimal knowledge of the relevant scientific issues. Yet all but seven percent of those polled agreed that basic scientific research has benefits and risks which extend beyond the scientific community.

Technology splits students, public

The survey indicated significant differences between the opinions of MIT undergraduates and the American public on the effects of technology on our society.

Less than a quarter of the US public responding to a 1979 National Science Foundation survey strongly believed that technological knowledge was largely responsible for the American standard of living. Slightly over half of MIT undergraduates, however, would strongly make that claim.

"Choose one area you would most like to see receive science & technology research funding from your tax money."



Source: MIT Student Pugwash's Survey

Graphic by Ezra Peisach

CIS manifests a diversity of views

Feature

By Salman Akhtar

Quietly tucked away on the sixth floor of Building E38 is the MIT Center for International Studies. Yet this very splendid isolation from the Institute is potentially symbolic of the global and far-ranging interests of the Center.

Established in 1951, the CIS is one of the foremost research centers on contemporary policy issues. The primary focus of the Center is on long term programs in which it has been engaged since its inception: arms control, defense policy, and communications. In recent years however, the Center has expanded its field of concern to include issues of topical interest including energy, risk-management, the environment, and Japan.

The Center also enlists a substantial number of students, most of whom are graduate students. One of the primary aims of the Center, according to CIS Director Eugene Skolnikoff, is to "try and give a degree of objectivity to our students." As such, the Center does not represent a uniform point of view and nor does it attempt to instill one. "We try to teach our students that there

are always alternate points of view and shades of gray," Skolnikoff said.

Thus, both the faculty and the student body represent a variety of views and "we are often attacked by both the left and the right, so we must be doing something right," Skolnikoff explained. Further proof of this diversity of beliefs is in the graduate students, who range from proponents of a "nuclear freeze" to employees of the Department of Defense. In trying to maintain its objectivity, "the Center relies on the value-system of the Institute and on a diverse student body," Skolnikoff said.

As recognition of its pioneering work, the Center was awarded a \$750,000 grant last year by the MacArthur Foundation to study international security. The Center is one of the oldest research institutions in the field. Most of the early post-World War academic effort in the field was a joint effort between the CIS and Harvard University.

The MacArthur Grant, however, has been designated an Institute-wide fund because the CIS is already fully funded. Hence, a committee under Provost John M. Deutch '61, co-chaired by Skolnikoff and Carl Kaysen, director of the Science, Technology,

and Society program, was formed to handle funding requests throughout MIT. An attempt was made to integrate the studies funded under international relations dealing with military issues.

Yet international security is so vast a subject that the topics funded range from one on the origins of war in the Middle East to one on arms control in the oceans. As many of the works are speculative and open-ended, the CIS does not expect significant results until the end of the program. However, this very emphasis on the long-term is at the heart of the studies conducted by the CIS.

The majority of the American public blamed new technologies based upon scientific discoveries for making our lives change too quickly, whereas over three-fourths of Pugwash's respondents disagreed with that statement.

The majority of both the American public and undergraduates polled believed that new technologies based on scientific research would likely solve more problems than they would cause. But a much larger percentage of MIT students were that confident in future scientific advances.

Students prefer non-military jobs

Fifty-six percent of Student Pugwash's respondents — including 65 percent of the women surveyed — said they had a strong to mild aversion to working for the defense industry, while 16 percent said they had a mild preference.

Pugwash designed and administered the survey to study students' views on education, science, and technology, according to Robin Wagner, co-founder of Pugwash and coordinator of the survey project. The survey results are still being studied, she said, in preparation for a report of its findings that will hopefully be completed this term.



Isaac Chuang

Steve Penn G, member of the MIT Coalition Against Apartheid, addresses the crowd outside the Alfred P. Sloan '95 Building (E52).

Corporation members explain investment logic

(Continued from page 1)

Saxon replied. People "can oppose apartheid and divestment," he said.

Logic of Corporation

The CAA's demand for a public accounting of the Corporation's logic oversimplified matters, Saxon said. "It is incorrect to assume a single logic" is used by the Corporation, Saxon told the CAA. The Corporation is "a collection of individuals" and their policy represents "the center of gravity," Saxon said.

"We don't know what information the Corporation is using," Parsons argued. He saw value in the Corporation "presenting the various arguments and various logics used to make these decisions."

CAA accused of arson

The meeting came after the CAA marched from 77 Mass. Ave. to the Corporation meeting at the Faculty Club in the Sloan Building.

The sixth floor which houses the faculty club was locked. Students pounded on the door for 20 minutes chanting "Let us in."

Their efforts came to no avail.

The protesters returned to the Sloan lobby where they were informed of the possibility of a meeting with Corporation members.

While discussing their plans, a fire started on the third floor of the building. The protesters initially wanted to confront the Corporation as they left the faculty club but decided it would be prudent to leave the building.

Peck accused the CAA of starting the fire, a charge they vigorously denied. But Campus Police Chief James T. Olivieri said several waste baskets were filled with paper and deliberately set on fire. While not singling out the CAA, Olivieri speculated that the fire was set to "try to disrupt building activity."

The CAA set up a speaker outside the Sloan Building. Soon after members started to speak the speaker's power cord was cut. CAA members charged the cord was cut by Campus Police.

Olivieri asserted that neither the Campus Police officers nor the firemen present at the demonstration cut the protesters' amplifier cord.

Does Your Family Need Health Insurance?

The deadline for adding family members to the

MIT Student

Blue Cross and Blue Shield for the Fall term has been extended to

October 17, 1986

Forms must be received in E23-308 by October 17, 1986

You Can Own An IBM-PC Compatible For What It Costs Most Computer Stores



1 YEAR WARRANTY

The ICP TURBO-XT which we manufacture features:

- Dual 360K floppy drives
- 640K on-board memory
- Expandable hard disc drives to 90 Meg
- 4.77 & 8-MHz operation
- IBM AT style keyboard
- Security key lock
- Complete line of monitors, printers & software
- Runs all IBM-PC software

Priced from **\$89500**

43 Mitchell Rd., Ipswich, MA 01938

Industrial Computer Products

(617) 356-7500

Div. of Industrial Semiconductors, Inc. IBM is a registered trademark of IBM Corp.

news roundup

from the associated press wire

Superpower summit this weekend

The Soviet Union has accepted Iceland's choice for next weekend's Reagan-Gorbachev meeting. The Soviet acceptance of the site on Reykjavik Bay clears a major hurdle in the preparations for the talks.

President Reagan said he intends to bring up Soviet military intervention in Afghanistan and human rights violations in the Soviet Union when he meets with Mikhail Gorbachev this weekend. But he told a business group meeting at the White House yesterday not to expect the conference to produce new superpower agreements. (AP)

Supreme Court to hear free-speech cases

The Supreme Court struck down a ban on teachers' discussing union business during school hours, as William Rehnquist made his debut as chief justice yesterday. By a 6-2 vote, the justices upheld the decision of the 5th US Circuit Court of Appeals that the ban unconstitutionally interfered with freedom of speech and freedom of association.

The justices will also rule on a Houston ordinance under which a man was arrested for heckling police officers. They must also decide whether government-run airports can prevent religious groups from handing out literature inside terminal buildings. (AP)

Economic activity increases

Production should be healthy in the months ahead, according to figures from the National Association of Purchasing Management. The economy grew slightly last month, with production rising from an already high level in August. The prediction was based on data compiled from purchasing managers of 250 industrial companies. (AP)

Warmer weather welcome

After a brief encounter with summer last week, we now have a taste of what lies ahead of us in the not-so-distant future. Although the worst will be over by the time this is published, we can expect cooler weather to continue through today and into tonight. By tomorrow we will begin to see a warming trend in our weather, however, as a high pressure system builds to our east.

Today: Skies will be mostly sunny and it will continue to be cool. High temperatures will be in the mid 50s (12-14 °C). It won't be as breezy as Monday, however, with northwesterly winds at 10-15 mph (16-24 kph).

Tuesday night: Clear and cool with low temperatures around 45° (7 °C) in the city and near 40° (5 °C) in outlying areas. Winds will shift to become southwesterly by morning.

Wednesday: Mostly sunny and warmer with high temperatures 60-65° (16-19 °C).

Thursday: Partly cloudy with high temperatures again in the 60s (16-20 °C).

Forecast by Robert X. Black

US holds firm on SDI

US Secretary of State George P. Schultz PhD '49 said this weekend that the United States will not make any deal with the Soviet Union that would arrest the development of a space-based defense. It is inconceivable that Reagan would do anything at the talks in Iceland that would block the so-called "Star Wars" program, Schultz told ABC. (AP)

Soviet sub sinks

The Soviet news agency, Tass, finally confirmed that a nuclear-powered submarine sank yesterday in the Atlantic Ocean, three days after it was stricken by fire. Past experience with the sinking of US submarines indicated that the Soviet wreck poses no danger of radioactivity or explosion, Pentagon officials said. (AP)

LaRouche workers are indicted for fraud, claim rights violations

Two corporations, three campaign committees, and ten individuals associated with political innovator Lyndon LaRouche have been indicted in an alleged nationwide credit card fraud operation. Prosecutors in Boston announced the indictments yesterday, just hours after state and federal agents searched LaRouche's headquarters in Leesburg, Virginia.

LaRouche and his organizations have repeatedly said that the government investigation was an attempt to cripple them and deprive LaRouche supporters of their Constitutional rights. LaRouche has announced that he is running in 1988 for the Democrat Presidential nomination. (AP)

Dukakis to address housing problems

Governor Michael Dukakis, entering the last month of his re-election campaign, is expected to address the state's housing problems this week. He is due to announce a series of programs intended to ease the problem. He will probably ask the legislature again to work on his \$100 million housing package, which has thus far been viewed coldly by the lawmakers. (AP)

Kasparov close to victory

The World Chess Championship is racing to a conclusion with champion Gary Kasparov in control. Karpov had tied the match after a mind-boggling three consecutive wins, only to lose a game to Kasparov last week. The 23rd game of the 24-game series began yesterday in Leningrad with Karpov commanding the white pieces. Kasparov, who leads by a score of 11½-10½, needs only a draw in this game to retain the title. (AP)

Red Sox fans anticipate playoffs

The wait ended yesterday morning for many eager Boston Red Sox fans hoping to get scarce playoff tickets. The ticket office finally opened at 9 am to the thousands of fans waiting in a line estimated to be two miles long.

Each fan is limited to two tickets for any one of seven games. The tickets would cover either the four games in the American League Championship Series against the California Angels or three home games should the Red Sox make it to the World Series. (AP)

Soviets release Orlov

Soviet dissident Yuri Orlov, who spent nearly a decade in Siberian exile because of his human rights activities, arrived in New York on Sunday. Speaking through an interpreter, he told reporters, "I am very glad to have begun a free life . . . I can say whatever I want freely. Now, I can speak my mind about how the Soviet Union should develop." Orlov vowed "not only to engage in scientific research but to go on defending the rights of the Soviet people." (AP)

Violence subsides in South Africa

The South African government said unrest is continuing, but the targets of protests have changed. Official figures show a decline in anti-government demonstrations. The number of non-violent demonstrations, such as rent boycotts, has increased. The death toll from violence has dropped from 321 deaths in May to 33 deaths in September and the first part of October. (AP)

OPEC begins conference

A new round of Organization of Petroleum Exporting Countries talks has started in Geneva, Switzerland. Iran's oil minister predicted OPEC will soon renew its temporary accord on production controls in an effort to raise world prices. Iran was the surprise architect of the Aug. 5 accord to limit production to 16.8 million barrels a day for the months of September and October. OPEC's previous ceiling was more than 20 million barrels a day.

Boston teachers' union calls for ban on weapons

The Boston teachers' union has called for a tough new policy against student weapons. Boston schools also need tighter security in school buildings, said Richard Stutman, spokesman for the union. The teachers want expulsion for a year for any student who brings a weapon to school. Stutman's comments came two days after a Brighton High School senior was stabbed three times in a dispute with another student. The student is reported in good condition at St. Elizabeth's Hospital. His assailant fled after the attack. (AP)

Roger Clemens wins Joe Cronin award

Boston Red Sox pitcher Roger Clemens has been named the 12th winner of the Joe Cronin Award for distinguished achievement, American League President Bobby Brown announced. Clemens led the American League with a 2.48 earned-run average. He allowed only 179 hits in 254 innings and was beaten for the strikeout lead in the final week by Seattle's Mark Langston, 245-238. (AP)

Largent captures record

Seattle Seahawks wide receiver Steve Largent set a new NFL record of 128 consecutive games in which he caught at least one pass. He caught the record setting pass during last night's game with the San Diego Chargers. The 11-year veteran tied Harold Carmichael's record last week.

Patriots dump Dolphins, 34-7

After losing 10-point leads against the Seattle Seahawks and the Denver Broncos, the New England Patriots held their lead over the Miami Dolphins. With five consecutive scoring drives in the first half, the Patriots achieved a 27-0 lead at halftime and cruised to a decisive 34-7 win. (The Boston Globe)

Compiled by Robert Adams



The Publishers Sales at Quantum
Week 1: John Wiley & Sons
10% off every John Wiley title

This week through Saturday, October 11, 10% off publisher's list price on every Wiley title on the Quantum Bookshelves, or special-ordered by Quantum this week. Important titles like Russell Ackoff's *Management in Small Doses*. A real Quantum Sale. Next week: McGraw-Hill.

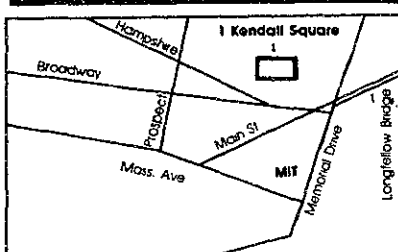
One Kendall Square,
(at Hampshire and Broadway)
Cambridge, Mass. 02139
(617) 494-5042

Management in Small Doses

RUSSELL L. ACKOFF

Foreword by
Reginald Jones
former CEO, General Electric Company

List price \$17.95



IAESTE WORK OVERSEAS

ON-THE-JOB TRAINING ABROAD
FOR STUDENTS OF ENGINEERING, MATHEMATICS,
ARCHITECTURE, AGRICULTURE, AND THE SCIENCES

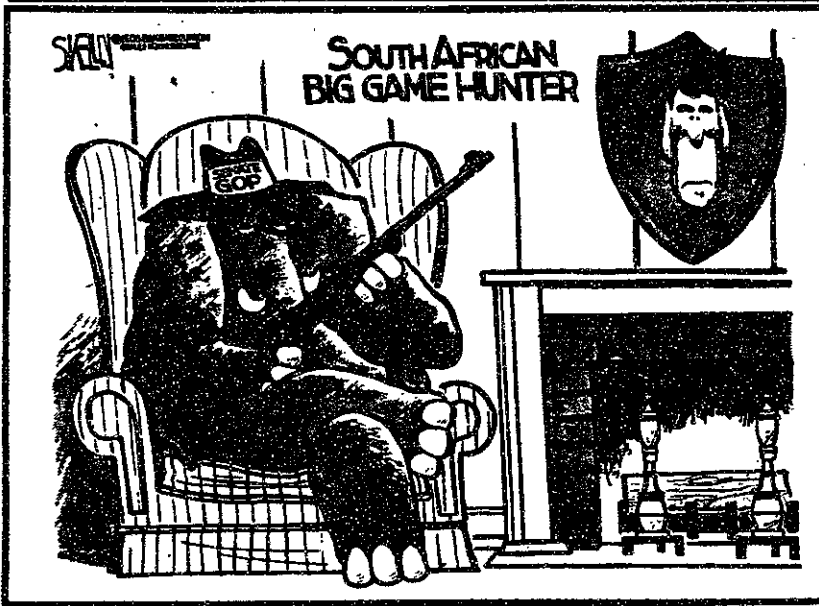
AN IAESTE REPRESENTATIVE WILL BE ON CAMPUS

THURSDAY, OCTOBER 9

ROOM 4-153, 4-5PM

STUDENTS AND FACULTY ARE URGED TO ATTEND

opinion



The Tech

Volume 106, Number 42 Tuesday, October 7, 1986

Chairman Ronald E. Becker '87
Editor in Chief Harold A. Stern '87
Managing Editor Mark Kantrowitz '89
Business Manager Eric N. Starkman '87
Executive Editor Michael J. Garrison '88

News Editors Earl C. Yen '88
 Andrew L. Fish '89
Opinion Editor Edward E. Whang '87
Night Editors Halvard K. Birkeland '89
 Ezra Peisach '89
Arts Editor Michiel Bos G
Photography Editor Stephen P. Berczuk '87
Advertising Manager Shari A. Berkenblit '88
Contributing Editors V. Michael Bove G
 Bill Coderre G
 Julian West G
 Carl A. LaCombe '86
 Steven Wheatman '86
 Sidhu Banerjee '87
 Simson L. Garfinkel '87
 Andrew S. Gerber '87
 Ben Z. Stanger '88
Senior Editor Jonathan Richmond G
Indexing Project Representative Sharalee M. Field '89

NEWS STAFF

Associate News Editor: Akbar A. Merchant '89; **Staff:** Joseph J. Kilian G, Donald Yee '87, Robie Silbergleit '88, Salman Akhtar '89, Derek T. Chiou '89, Mary Condello '89, Jeffrey C. Gealow '89, Irene E. Skricki '89, Marcia Smith '89, Sally Vanerian '89, Donald Varona '89, Anuradha Vedantham '89, Robert Adams '90, Michael Gojer '90, Kenneth D. Leiter '90, Suzanne J. Sander W '88. **Meteorologists:** Robert X. Black G, Christopher A. Davis G, Michael C. Morgan '88.

OPINION STAFF

Associate Opinion Editor: Sharalee M. Field '89; **Columnists:** Thomas T. Huang G, Robert E. Malchman '85, Scott Saleska '86, Mark McDowell '88, Daniel W. Pugh '88, Alan Szarawarski '88, Elliot Marx '89.

SPORTS STAFF

Staff: William Hou G; Paul Paternoster '88, Jerome G. Braunstein '89, Anh Thu Vo '89.

FEATURES STAFF

Cartoonists: V. Michael Bove G, Kevin J. Burns '79, Jim Bredt '82.

ARTS STAFF

Associate Arts Editors: Allison J. Druin G, Betty J. McLaughlin '89; **Staff:** Peter E. Dunn G, James F. Kirk G, Barbara A. Masi G, Joseph L. Shipman '82, Corrado Giambalvo '86, Scott Lichtman '88, Julie Chang '89.

PHOTOGRAPHY STAFF

Associate Photo Editors: David M. Watson '88, Susan K. Fatur '89, Kyle G. Peltonen '89; **Staff:** Jerry Broda '87, Daniel J. O'Day '87, Rich R. Fletcher '88, Mike Frey '88, Michael W. Halle '88, Shari L. Jackson '88, Kim A. Kellogg '88, Mark S. Abinante '89, Tom Coppeto '89, Terry P. Higgins '89, Steven Y. Kishi '89, Mike Niles '90, Mark Virtue '90; **Darkroom Managers:** Simson L. Garfinkel '87, Steven Y. Kishi '89.

BUSINESS STAFF

Associate Advertising Manager: Steve E. Hill '90; **Advertising Accounts Manager:** Shari L. Jackson '88; **Circulation Manager:** Becky Miller; **Staff:** Genevieve C. Sparagna '90.

PRODUCTION STAFF

Staff: Amy S. Gorin '84, Lily King '89, Joyce Ma '89, Marie Coppola '90, Jigna Desai '90, Julia Drewry '90, Jeeyoon Lim '90, David B. Plass '90, Stacy A. Segal '90; **TEN Director:** Ezra Peisach '89; **Supplies Manager:** Andrew S. Gerber '87.

PRODUCTION STAFF FOR THIS ISSUE

Night Editor: Mark Kantrowitz '89
Staff: Peter E. Dunn G, Ronald E. Becker '87, Eric N. Starkman '87, Harold A. Stern '87, Shari A. Berkenblit '88, Michael J. Garrison '88, Earl C. Yen '88, Ezra Peisach '89, Marie E. Coppola '90, Michael Gojer '90, Steve E. Hill '90, Daniel Peisach '90, David B. Plass '90.

The Tech (ISSN 0148-8607) is published Tuesdays and Fridays during the academic year (except during MIT vacations), Wednesdays during January, and monthly during the summer for \$13.00 per year Third Class by The Tech, 84 Massachusetts Ave. Room W20-483, Cambridge, MA 02139. Third Class postage paid at Boston, MA. Non-Profit Org. Permit No. 59720. POSTMASTER: Please send all address changes to our mailing address: The Tech, PO Box 29, MIT Branch, Cambridge, MA 02139. Telephone: (617) 253-1541. Advertising, subscription, and typesetting rates available. Entire contents © 1986 The Tech. The Tech is a member of the Associated Press. Printed by Charles River Publishing, Inc.

Column/Simson L. Garfinkel

Athena faces identity crisis

Project Athena has been in the midst of an identity crisis ever since March 1985.

At that time, Project Athena "opened up" the Student Center cluster to the MIT undergraduate student body. Since then, any undergraduate who has wanted an account on Project Athena has been able to get one.

The Student Center cluster is the only exposure many students get to Project Athena. For these undergraduates, the Student Center's overburdened timesharing computers, unreliable printers and meager file space allocations are defining characteristics of the Project. It is no wonder that Project Athena slides at Lecture Series Committee movies are accompanied by hissing.

Many people within Athena view the Student Center as an anomaly. The role of the Project, these people maintain, is to experiment with the role of computers in education, not to provide word processors to the MIT undergraduate community. Few people within the Project expected undergraduates to flock to Project Athena for word process-

ing services. Athena's technical support and equipment resources were ill-prepared to satisfy the unexpected demands placed on the Student Center cluster.

This conflict between "Athena as a service" and "Athena as an experiment" is at the heart of the Project's identity crisis. The conflict is also at the center of student dissatisfaction with the Project.

Attempts to publicly address this conflict have failed. A recent article in the Information Services newsletter protesting that "Project Athena is not a service" misses the point: Project Athena is both an experiment and a service.

For a faculty member developing and testing educational software on Athena equipment, it is essential that the Project provide

a stable and reliable service. The faculty member's experiment depends on the Athena service.

In order for students to use the system sufficiently to use it outside of an "Athena course," the hardware must provide responsive and reliable service. Athena's experiment of watching what happens when undergraduates are provided with unrestricted computing power depends upon students' acceptance of the system. At the present time, many students view Project Athena as the last choice when looking for computer resources on campus.

Until Project Athena realizes that it has become a *de facto* service and budgets for operations and consulting accordingly, student and faculty dissatisfaction will continue to rise.

Editorials, marked as such and 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 undersigned 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 should be typed and addressed to The Tech, PO Box 29, MIT Branch, Cambridge MA 02139, or by interdepartmental mail to Room W20-483.
 Letters and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. No letter or cartoon will be printed anonymously without express prior approval of The Tech. The Tech reserves the right to edit or condense letters. We regret we cannot publish all of the letters we receive.

feedback

Anti-abortion is not "anti-choice"

To the Editor:

I am writing in response to the recent letter in *The Tech* referring to people who are opposed to abortion as "anti-choice" ["Pro-life poster misleading," Sept. 30]. I feel that the use of this term in reference to everyone who is opposed to abortion is misleading, and distorts the moral questions involved in the debate over abortion.

Opposition to abortion is not the same thing as opposition to a person's right to make informed choices. In fact, in most cases, the need for an abortion arises from a person's failure to make such choices.

The majority of abortions that are performed in the United States at this time are abortions of healthy babies whose mothers do not wish to give birth to a child. I shall not deal here with the case of women who have abortions because they have learned that their babies have some serious handicap, nor shall I deal with cases in which the pregnancy endangers the mother's life, because these cases apply to only a small fraction of the abortions that occur, and because in these cases, the moral decisions involved are different from

those involved in the majority of abortion decisions.

Therefore, I shall examine the case of a healthy woman who finds herself pregnant. It is my position that this woman has *already* decided to bear a child. This woman has become pregnant because she freely chose to have sexual intercourse (I will discuss the case of rape later). There are many safe and effective birth control methods available. Few women are unaware of the fact that sexual intercourse can result in pregnancy. Therefore, in choosing to make love, a woman is also choosing to accept the risk of pregnancy, either the large risk associated with using no birth control, or the smaller risk if she uses the method of her choice.

Alternatively, she has freely chosen not to think about the risk of pregnancy, and not to make an informed choice in this matter, since if you have to make a choice, and you choose not to choose, that in itself is a choice.

Therefore, one way or the other, she has chosen to become pregnant. If she then seeks an abortion, it is because she has decided that her choice was wrong, and she wishes to avoid the consequences of her choice.

If one is pro-choice, one must also be in favor of accepting the consequences of one's choices, since any choice is a choice between different sets of possible consequences. In choosing to have an abortion, the woman is attempting to avoid the results of her earlier choice; at the cost of the life of her baby.

It is generally regarded as unacceptable in our society for someone to take the life of an innocent person in order to avoid trouble for himself (or herself). That is why it is illegal, for example, for a criminal to kill someone who witnessed his crime. Therefore, why should society condone the killing of a baby just so that the mother, who, after all, chose to conceive it in the first place, will not be inconvenienced for nine months (since, after the child is born, she can choose to put it up for adoption, and then she does not have to have any further contact with it).

The choice to have an abortion is not really a moral choice at all, but an immoral attempt to avoid the consequences of choices already made. A person who regards himself (or herself) as pro-

(Please turn to page 5)

Pro-life against improper choices

To the Editor:

Alison Bass accuses pro-life groups of "really" being anti-choice ["Pro-life poster misleading," Sept. 30]. As one who has been a pro-lifer for several years, I am glad to say that, to a large extent, Bass is right.

Pro-lifers do believe that some choices are improper. We do hold that it is improper for anyone to choose termination for another member of the human race whose only crime is that of being unwanted.

Though it is a gross exaggeration to say that we are anti-choice, it is no exaggeration to say that we are both careful and selective about choices we think are deserving of legal protection. For example, nobody would want our laws to defend a person's choice to drive while intoxicated. And pro-lifers think that one's choice to prune the human spe-

cies of unwanted members is equally undeserving of protection or defense.

It should be clear, then, that our willingness to limit human choice follows from our willingness to favor human life in all its natural stages. From their conception, individualized entities belonging to the species *homo sapiens* will spontaneously move towards birth and maturity and natural death, if only they are properly nurtured. Pro-lifers believe in favoring the nurture of such human entities, among whom we all must include ourselves. There is nothing contradictory about being fully pro-life and mostly pro-choice.

Still, we do well to note that pro-choicers like Bass are also quite selective about the choices they are willing to champion. They would not, I am sure, defend someone's choice to drink

and drive. The truth is that their selective attitude about choice breaks down only when the issue is abortion.

In discussing abortion, people like Bass think that choice should be limitless, and that some stages of life are, therefore, negligible. In other words, when it comes to abortion, they are selective about life in the same way that we are selective about choice.

Nonetheless, I will avoid repeating Bass' rhetorical mistake, and avoid stating that pro-choicers are really anti-life. That, I think, would be a needless exaggeration. Let us point out that pro-choice groups are really pro-abortion. Let us point out, for the sake of accuracy, that all such groups are militantly pro-abortion. "Because," as Bass would say, "that is what they are."

Charles D. Presberg
 Cambridge, MA

opinion

feedback

Choosing abortion is avoiding the results of earlier choices

(Continued from page 4)

choice, meaning in favor of the right of people to make informed moral choices about their lives, will not necessarily be pro-abortion, and a person who is anti-abortion is not necessarily anti-choice.

A woman who becomes pregnant due to rape has clearly been deprived of her right to choice about whether to conceive a baby. However, the baby was not

the one who is guilty. The baby is merely an innocent bystander, and therefore it is the duty of society to protect it. To abort the baby would be to punish an innocent child for the crime that his father committed. At one time, punishing a whole family if the father committed a crime was a common practice, but today in the United States, such action is regarded as wrong.

Cynthia G. Brinkley G

Going Places

Round trip from Boston

London	\$370
Stockholm	\$440
Hong Kong	\$764
Rio	\$659
Caracas	\$350

Also: int'l student ID, hostel cards, railpasses, and the FREE CIEE student travel catalog. Call today!!

COUNCIL TRAVEL
 BOSTON (617) 266-1726 CAMBRIDGE (617) 497-1497

REMINDER!! ALL STUDENTS WELCOME!

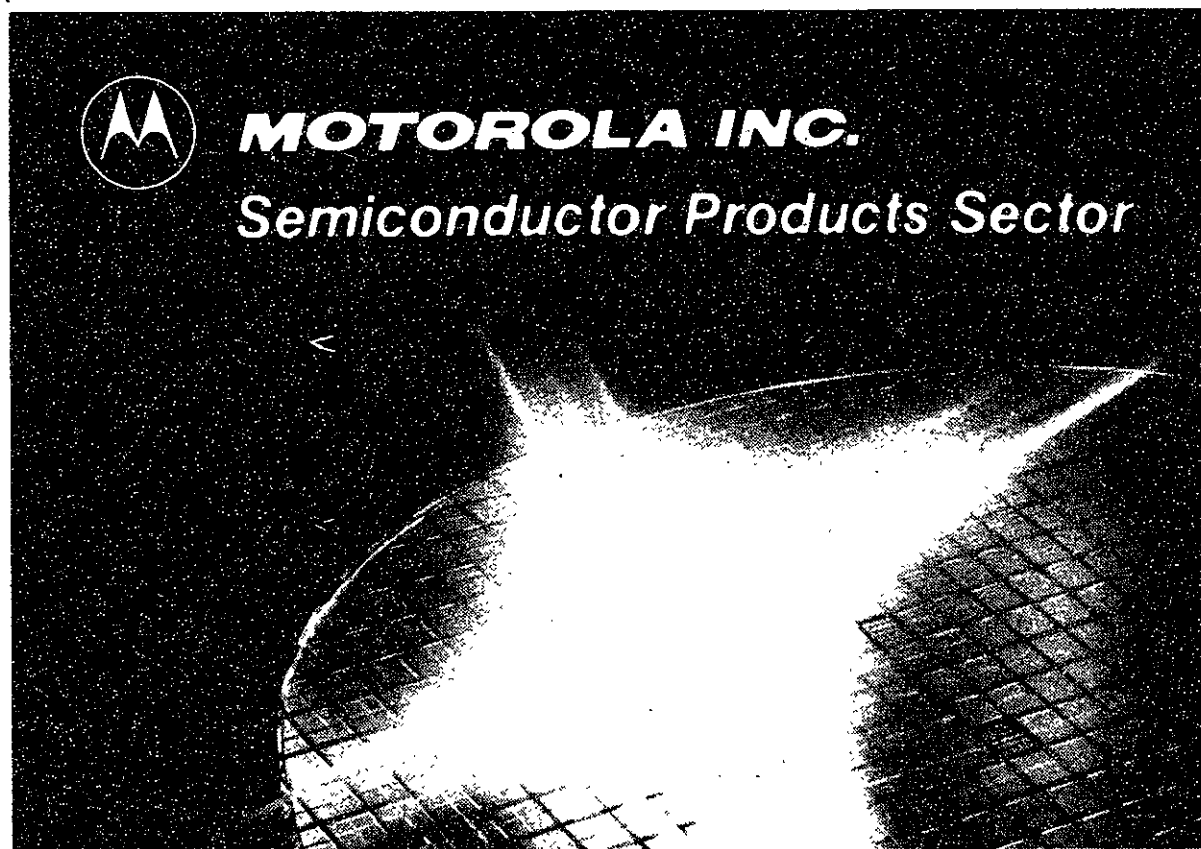
Come to GTE's on-campus information reception

TONIGHT:

OCTOBER 7th
7:00PM-9:00PM
ROOM 4-149

and find out about the outstanding technical and business career opportunities available. Actual recruitment date is November 5th.

GTE



We'll be on campus

October 15-16, 1986

Qualified college students are invited to meet with us and explore the career opportunities... the innovative technology... the industry leadership that is Motorola's Semiconductor Products Sector. Engineering and other professional openings exist for:

- Electrical Engineers
- Mechanical Engineers
- Physicists
- Computer Scientists
- Chemical Engineers
- Chemists
- Materials Scientists
- Finance, Marketing and Materials Specialists

For more information, stop by your College Placement Office or write to Manager, College Recruiting at the appropriate address below.

Arizona Opportunities
 Motorola's Semiconductor Products Sector
 725 South Madison
 Tempe, AZ 85281
 (602) 994-6812

Texas Opportunities
 Motorola's Semiconductor Products Sector
 1112 W. Ben White Blvd., Suite 200
 Austin, TX 78704
 (800) 531-5183

An Equal Opportunity/Affirmative Action Employer

Undergraduate Association News

Class of 1990:

- Freshman Council meetings 1st and 3rd Mondays of every month on 4th floor Student Center, 5:15. All are urged to attend.
- Newly elected officers:
 - President: Vijay Vaitheeswaran
 - Vice President: Tom Knight
 - Secretary: Richard Villanueva
 - Treasurer: Julie Kim
 - Social Chair: I-Ching Wu
 Zara Weng
 - Publicity Coordinator: Jon Woodman

ATTENTION ASA ACTIVITIES:

ASA General Body Meeting
 October 8, 1986 at 5 p.m.
 Room 400, Student Center

Guest Speaker: Chief Architect in charge of Student Center Renovations (Forum for opinions from Student Activities).

Election of Offices recently vacated!
 Check your mail for full agenda details!

Course Evaluation Guide

Weekly Meetings
 Tuesdays, 7:00 pm in the UA office (W20-401)

This week is our nominations meeting — if you're interested in an office please attend.

Several boxes of old course guides have recently turned up. If you would like a free copy drop by our meeting and pick one up.

Questions? John Kuenzig 253-2696

GET INVOLVED IN EDUCATION REFORM

The three recently released reports examining the main features of the MIT undergraduate academic program can be read and discussed by students individually or by dropping by the UA office. We have copies which students can read, or stop by a **SCEP** meeting on Wednesday nights at 7:30 in the UA office for ongoing discussion.

The Institute, particularly the C.U.P., is inviting and encouraging student discussion on these matters. Don't pass up your chance to be a part of MIT's change and growth through education reform.

The Undergraduate Association
 student government for students at MIT

the 4th floor of the Student Center
 room 401, 253-2696

OUT OF PRINT.

For those hard-to-find publications such as out-of-print books, legal anthologies and scholarly journal reprints, Kinko's Copyright Permissions and Reprints Service will help you obtain permission so you can teach with the specific educational information you need.



13 Dunster Street
Harvard Square
(617) 497-0125

907 Main Street
Cambridge, MA 02139
(617) 497-4111

111 Western Ave
Allston, MA 02134
(617) 491-2859

"WHY GET AN MBA?"

The pros and cons of business school education and practical advice on how, when, where, and whether to apply.

Wednesday, October 15, 1986

3:00 - 4:00 p.m.

Room 4-153

Deirdre Leopold
Associate Director of Admissions
HARVARD BUSINESS SCHOOL

and
Jennifer Bertan
M.I.T. graduate (BS, course 3, 1982;
MS, Management of Technology Innovation, 1983);
currently a second year MBA student
at the Harvard Business School.

Sponsored by the M.I.T. Office of Career Services

Come to the... World Student Celebration



new vision
Creating a New Student Movement

at the
Jacob K. Javits Convention Center
—Saturday, October 11, 1986 / 2:00-6:30 p.m.—
\$7.00 advance purchase / \$10.00 at the door

Special Guest Performance

"Father Guido Sarducci"
of Sat. Nite Live

Also...

Third World
Hit Single "Sense of Purpose"

Also...

- ★ Bands from America and Japan
- ★ International Dance
- ★ Martial Arts Demonstration
- ★ Special Guest Speakers

MIT CARP



A program of The 3rd CARP Convention of World Students / October 9-16, 1986 / For more information, call: 254-9524

8th Annual Career Fair and Banquet

sponsored by Society of Women Engineers

Banquet
Friday, October 17
Reception - 6 pm
Dinner - 7 pm
at the New Marriott Hotel

Career Fair
Noon - 5 pm
Saturday, October 18
in the Sala de Puerto Rico

Career Fair
open to all members of the MIT community

Banquet tickets on sale in Lobby 10
or call 253-2096

Does your car or light truck need brakes or mufflers?

FIND OUT FREE!

FREE Brake and Muffler Inspection

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Pull all 4 wheels 2. Inspect drums, brake shoes and cylinders 3. Inspect disc pads, rotors and callipers 4. Muffler Inspection | <ol style="list-style-type: none"> 5. If any repairs are necessary we will give you a written estimate. You decide if you want the repairs made. |
|--|---|

PLEASE CALL FOR APPOINTMENT

**Brake Shoes, Pads, and Mufflers guaranteed
for as long as you own your car**

Disc Brake Overhaul

\$79.00

Includes new front brake pads, new grease seals, wheel bearings repacked, front rotors resurfaced, master cylinder and hydraulic system checked. Also check rear brakes and road test car. For imported and U.S. cars with conventional rear-wheel drive. Prices will vary for front-wheel drive, depending on vehicle model.

864-1111

Sunoco Brake Kings
808 Memorial Drive
Cambridge, Mass.

SERVICE SPECIALS

Muffler Installed

\$59.95

Foreign & American

Cooling System Flush

We will back flush your cooling system, install up to 2 gallons of anti-freeze, check all belts, hoses, and clamps. Additional parts & labor extra.

Most American & Foreign cars and light trucks.
\$19.99

Lube, oil change, and filter

\$24.95

- Change oil 10-40
- Change filter
- Complete chassis lube
- Lube door & hood hinges
- Check and fill: automatic transmission fluid, battery, power steering fluid, brake fluid, rear end fluid, washer fluid

Drum Brake Overhaul

\$59.95

- MOST CARS
1. Install new linings, 2 wheels
 2. Precision grind drums
 3. Adjust all brakes
 4. Road test car
- ADDITIONAL PARTS EXTRA IF NEEDED

OFFICIAL MASS. INSPECTION STATION 2563

SENIORS

DON'T MISS IT!

4

days left to appear in
Technique 1987

Appointments: call 3-2980

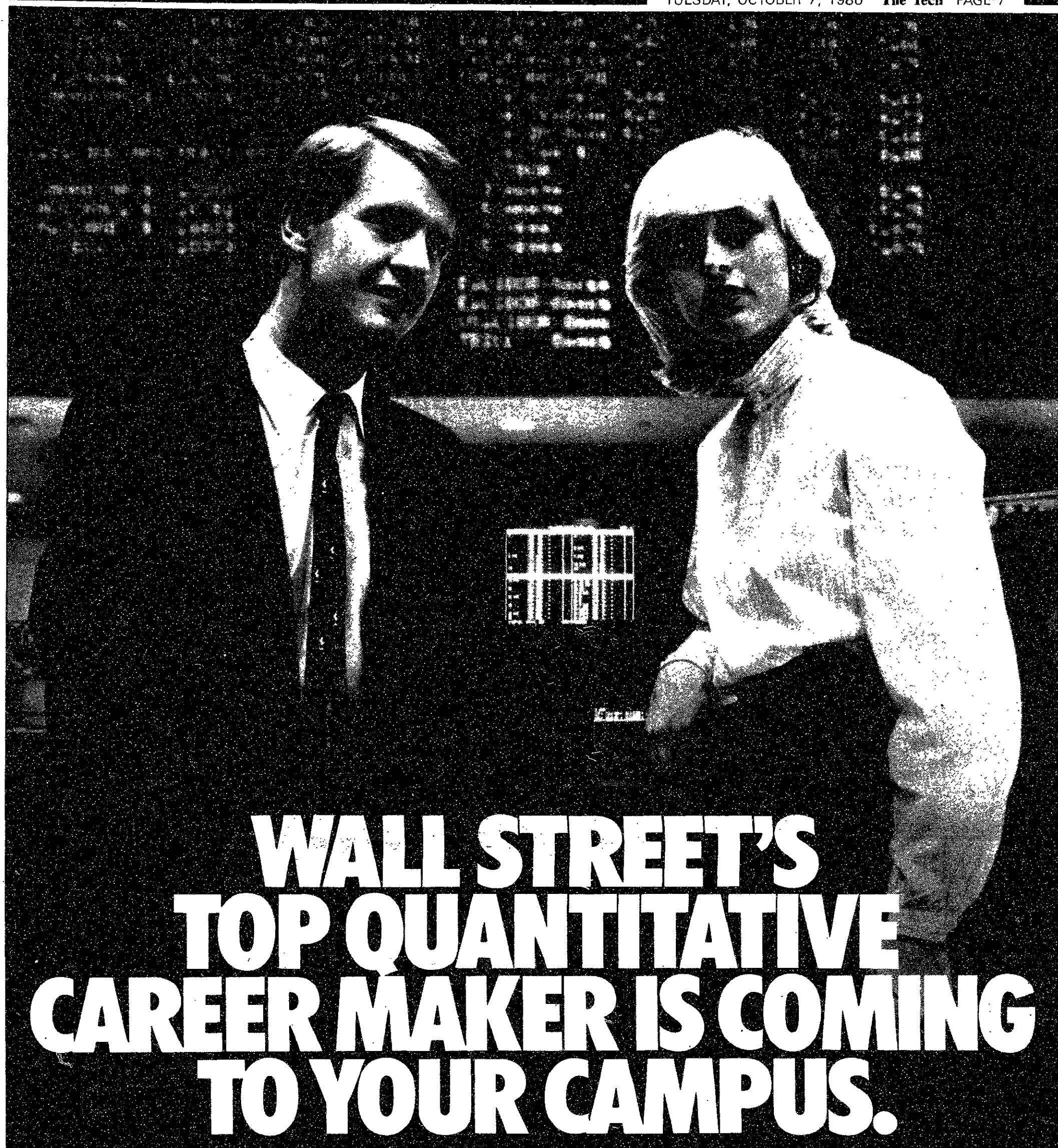
Sittings: Today — October 10

Info: Call 3-2980

or stop by W20-451

SMILE

for your yearbook portrait



WALL STREET'S TOP QUANTITATIVE CAREER MAKER IS COMING TO YOUR CAMPUS.

HERE'S WHY.

There's a new career option for today's quantitative graduates. It's not in academia. It's not in Corporate America. It's not in the Silicon Valley.

It's on Wall Street.

Today, Wall Street "quants" are literally shaping the future of high finance. They're developing a new generation of investment products, pioneering new ways to improve profitability, and creating new opportunities for investors and issuers. And for their quantitative creativity, they're being recognized with qualitative rewards. With challenge, responsibility and recognition.

Yet you might be surprised to learn that many of Wall Street's most successful "quants" have no prior experience in finance or economics. They come from backgrounds in math, physics,

engineering, operations research, computer science, and other quantitative disciplines.

Today, Wall Street firms are hiring more quantitative graduates than ever, and Salomon Brothers Inc. is no exception. A major investment banking and market-making firm, we're Wall Street's leading employer of "quant" graduates. And since our research and technology management departments are the most respected in the industry, you'll be working with some of the top talent in your field.

Want to learn more about the challenge of working with a Wall Street leader in one of today's most rewarding quantitative careers? Don't miss the Salomon Brothers presentation scheduled for your campus:

**October 15, 1986; MIT/Sloan
Hyatt Regency; 7-9pm**

Salomon Brothers Inc

Market Makers and Investment Bankers

One New York Plaza, New York, New York 10004 Atlanta, Boston, Chicago, Dallas, London (affiliate), Los Angeles, San Francisco, Tokyo (affiliate), Zurich

ORACLE

TOP TECHNICAL, MARKETING, AND BUSINESS DEVELOPMENT GRADUATES

Did you distinguish yourself at MIT?

If so, then come to **Oracle Corporation** and do it again!

If you're in the top 10% of your graduating class and have academic credentials you can brag about, i.e., high school valedictor or salutatorian; Phi Beta Kappa, Sigma Xi, or other well respected honor societies; national merit winner, etc.; then we would like to talk to you about joining the best.

Oracle Corporation is a very successful, very fast-growing company which has established its place in the software industry with its premier relational database product, ORACLE. ORACLE is a SQL-based relational DBMS that includes a set of integrated application development and decision support tools.

Oracle Corporation will give you:

- **Fascinating and challenging work.** We need to staff these projects: distributed database, interactive graphics, and networking of heterogeneous machines, to name a few. Work on a variety of systems, including new IBM products, Apollos, Suns, MicroVAXes, and many PCs, including the IBM RT/PC.
- **A superior work environment.** Oracle headquarters is a beautiful new building in the rolling hills of northern California, with a view of San Francisco Bay. We're within 20 minutes of San Francisco, 40 minutes of the Pacific, and Lake Tahoe is 3½ hours away.
We offer exceptional salaries to exceptionally gifted, exceptionally disciplined workers. Every Oracle employee has a piece of equity in the company, and we provide complete medical/dental/life coverage. You can work the flexible hours that make you the most productive.
- **A superb group of peers.** Our development staff is made up of the smartest people we can find from the finest schools in the country. We hired 16 graduates from the class of '86. We want 30-40 graduates from the class of '87.
- **A sign-on bonus.** If you meet the Oracle standard you may be eligible to receive a one-time bonus equal to 10% of your starting salary at Oracle.

We are looking for people to work in all of our divisions: Development, OEM, Field Sales and Support, Corporate Support, Consulting, and International divisions. If you have an interest in any of these areas, please sign up for an interview, or call us collect. We want very much to share our success with the best.

Oracle Corporation
will be conducting on-campus interviews on
October 15, 16, and November 4

Larry Lynn
Oracle Corporation
20 Davis Drive
Belmont, California 94002

(415) 598-8000

*Please call collect if you have any questions
or if the Career Services sign-up list is full.*

GAY AND LESBIAN GRADUATE STUDENT COFFEEHOUSE

WHEN: TUESDAY, OCTOBER 7, 4-6 PM

WHERE: 50-306, WALKER MEMORIAL

SPONSORED BY THE GRADUATE STUDENT COUNCIL

FOR MORE INFORMATION CALL 225-6180

UNIVERSITY TYPEWRITER CO. INC.

Choose from the largest variety of
typewriters in the Harvard Square Area.

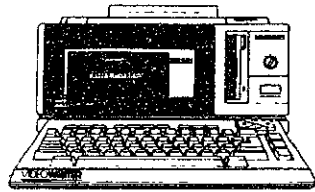


Smith-Corona
Swintec
Brother

Canon
Panasonic
and more

NOW, THE LATEST IN WORD PROCESSING

Special Sale
Smith-Corona PWP
Word Processor



Magnavox Videowriter

90 Mt. Auburn Street at Harvard Square
547-2720 547-1298

RENTALS • SALES • REPAIRS • SUPPLIES

ON CAMPUS Meet Members of our Technical Staff October 22, 1986

Lincoln Laboratory professionals are at the forefront of unique Research and Development efforts across a broad spectrum of advanced electronics technology in projects ranging from component development to the design and construction of complex prototype systems. Every year, many of the finest Ph.D. and M.S. level graduates add their expertise and energy to our international reputation for excellence. We invite you to join them in one of the following areas:

- Satellite Communications
- Signal Processing
- Optics and Lasers
- Microelectronics
- Digital Systems Processing
- Machine Intelligence
- Image Processing
- VLSI

Located at the heart of New England's high technology belt, a career at Lincoln Laboratories also puts you within easy reach of the region's most beautiful beaches and mountains—and less than 15 miles from downtown Boston with its diverse cultural, educational and athletic events.

Contact your placement office to arrange interviews or send your resume to Mr. Chet Yablonski, MIT Lincoln Laboratory, 244 Wood Street, Lexington, MA 02173. (617)863-5500, Ext. 7050. U.S. Citizenship required.

An equal opportunity/affirmative action employer.

MIT LINCOLN LABORATORY

DEFINING, DEVELOPING AND BUILDING PRODUCTS THAT MAKE MONEY

The Annual Workshop of the
MIT Enterprise Forum*
of Cambridge, Inc.

Saturday, November 8, 1986 8:00 am to 6:00 pm

Massachusetts Institute of Technology Cambridge, Massachusetts

Scholarships

25 MIT student scholarships will be awarded to cover Workshop registration fees. Applications are available from the MIT Enterprise Forum of Cambridge office. **Deadline for application is October 17, 1986.** Scholarships will be awarded in order of application receipt. Winners will be notified by the National Director, MIT Enterprise Forum of Cambridge, Inc., on October 27.

Keynote Speakers

Mitchell D'Kapor
Director and Founder
Lotus Development Corporation

Robert N. Noyce
Vice Chairman
INTEL Corporation

Lawrence G. Roberts
President
NET Express, Inc.
Chairman
DHL Corporation—US Component

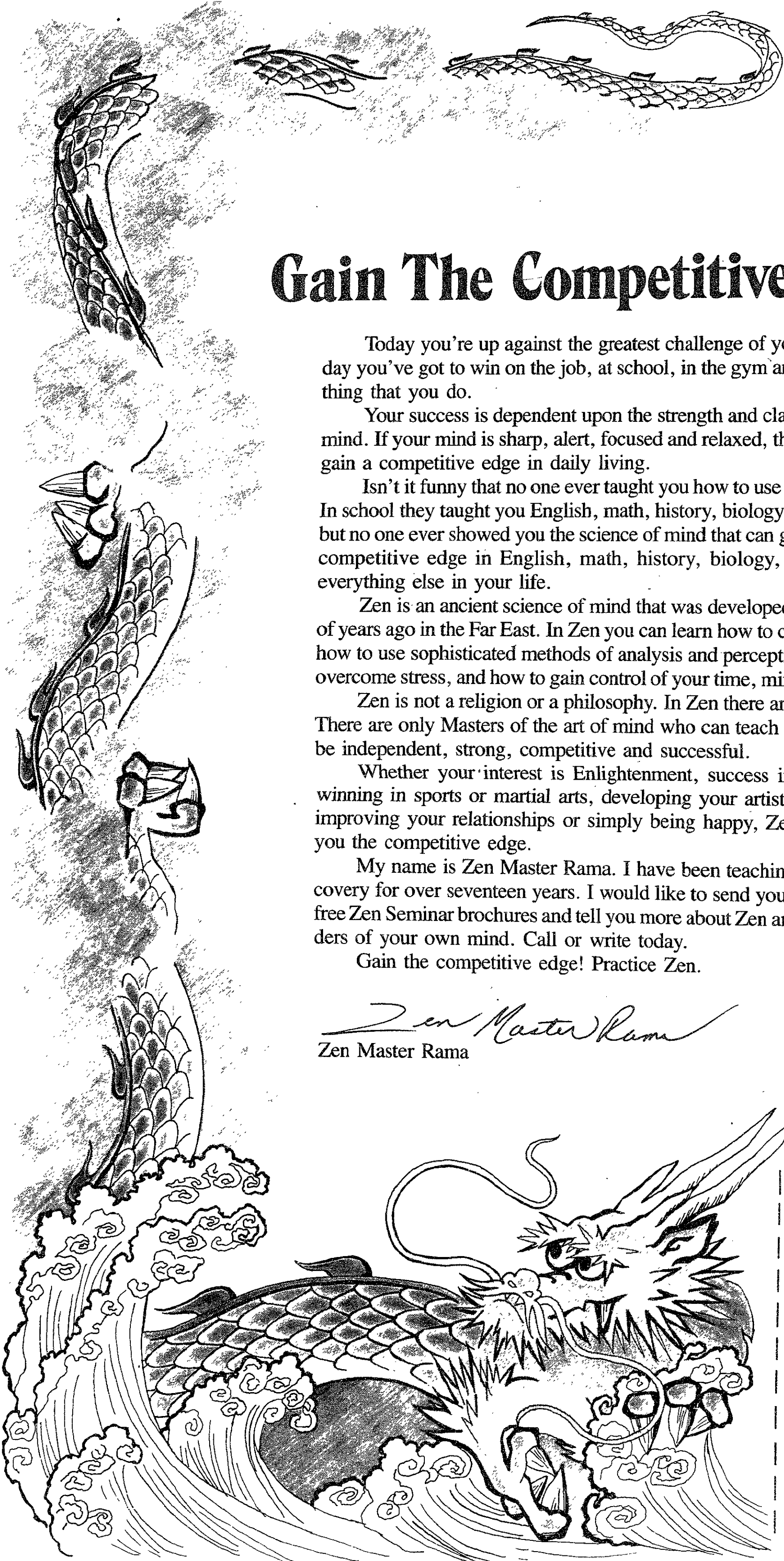
Carl G. Sontheimer
President
Cuisinarts, Inc.

Plus small group working sessions on:

Identifying markets and products
Managing R&D on budget and on time
Nuts and bolts of manufacturing
Integrating marketing and R&D
Revitalizing the manufacturing organization
Real world issues: Customers, competition and profitability
Interfacing R&D and manufacturing
Corporate growth strategies. People, supplies and facilities
Panelists at these sessions will include over 20 CEOs and other leading R&D, manufacturing and marketing professionals.

Registration deadline:

October 24, 1986
MIT student fee \$50
Fee includes meals, social hour and printed material.
Registration forms may be obtained from the MIT Enterprise Forum of Cambridge office, Room 10-120 (Alumni Center).



Gain The Competitive Edge!

Today you're up against the greatest challenge of your life. Today you've got to win on the job, at school, in the gym and in everything that you do.

Your success is dependent upon the strength and clarity of your mind. If your mind is sharp, alert, focused and relaxed, then you will gain a competitive edge in daily living.

Isn't it funny that no one ever taught you how to use your mind? In school they taught you English, math, history, biology and sports, but no one ever showed you the science of mind that can give you the competitive edge in English, math, history, biology, sports and everything else in your life.

Zen is an ancient science of mind that was developed thousands of years ago in the Far East. In Zen you can learn how to concentrate, how to use sophisticated methods of analysis and perception, how to overcome stress, and how to gain control of your time, mind and life.

Zen is not a religion or a philosophy. In Zen there are no gurus. There are only Masters of the art of mind who can teach you how to be independent, strong, competitive and successful.

Whether your interest is Enlightenment, success in business, winning in sports or martial arts, developing your artistic abilities, improving your relationships or simply being happy, Zen can give you the competitive edge.

My name is Zen Master Rama. I have been teaching Self Discovery for over seventeen years. I would like to send you one of my free Zen Seminar brochures and tell you more about Zen and the wonders of your own mind. Call or write today.

Gain the competitive edge! Practice Zen.

Zen Master Rama
Zen Master Rama



Please send me information about Rama Seminars™:

- 4 Evening Zen Seminars in Los Angeles and Boston
- Aspen Summer Zen Program
- 2 Day Desert Excursions
- Zen Travel Seminars to Japan and Hawaii

Name _____

Address _____

City _____

State _____ Zip _____

Send to: Zen—1015 Gayley Avenue, Suite 1116, Los Angeles, CA 90024
Or Call: (617) 371-4869
For a Free Zen Seminar Brochure. 10



EMILY BERGMAN
36 Massachusetts Ave.
1986-1987
Office: 781-552-1000
Phone: 781-552-1000
781-552-1000
781-552-1000

781-552-1000
781-552-1000
781-552-1000

Joe Turner's Come and Gone shines

JOE TURNER'S COME AND GONE

Written by August Wilson.
Directed by Lloyd Richards.
At the Huntington Theatre.
Through Oct. 19.

By BARBARA MASI

"THEY TELL ME Joe Turner's come and gone, Oh Lordie. He's got my man and is gone. Forty links of chain — got my man and gone." This song was heard in Memphis around 1901 — a song about the experiences of freed slaves in America 40 years after the Civil War. It is a song about their wanderings to the industrial cities searching for work, searching for lost family members, searching for a place to belong. It grew out of stories told by black women when their men left them — just disappearing one day. The women would say "Joe Turner got them." The song formed part of August Wilson's inspiration for *Joe Turner's Come and Gone* which opened Oct. 1 at the Huntington Theatre.

The play is set in a Pittsburgh boarding house — Seth and Bertha Holly's place. Seth and Bertha's was one of the places black people wandered through in 1911. Nobody stayed long, but Bertha's guests were family. You could sit in her kitchen, sing, eat some of the best biscuits in Pittsburgh, and share your story. Bertha made you feel like Bertha's was the place you were looking for.

Nobody stayed long, that is, except for Bynum Walker. Bynum spent his mornings digging, dancing, and singing in the boarding house garden — looking for his magic herbs. Bynum stayed so long because he said that he had a lot of work to do in Pittsburgh. "My song is the binding song. My daddy taught it to me in a vision I had once. I bind people together. I bind them to their song. That's where my name comes from. And it seems like everybody is looking for something." Bynum was no exception. He was looking for his shiny man. He had met him once and he knew

when he saw him again he could die a happy man.

People came from all over the country to see Bynum. Herald Loomis and his daughter, Zonia, came from Memphis to ask for help finding Loomis' wife, Martha. Loomis said, "Joe Turner got me. He just took me one day in Memphis in 1901." Loomis picked cotton for seven years. When he came back to Memphis, Martha was gone. He found his daughter and began his journey in search of Martha.

When Loomis walked into Bertha's kitchen, his presence consumed all the laughing and singing. His sadness was overpowering. His search drove the play from the moment of his entrance. Unlike Bertha's other guests, his search controlled his life. Yes, they all had told their stories about loved ones disappearing, but they could be happy just laughing and eating at Bertha's house or wherever they wandered to. And they could be happy with anyone.

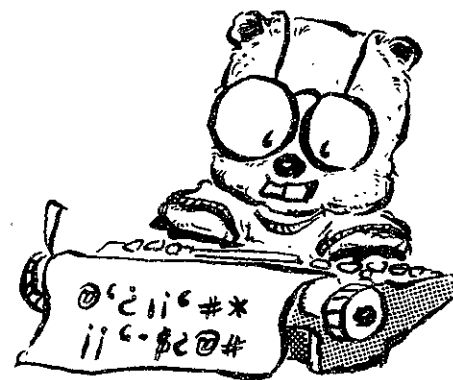
The disconnected collage of stories told by Bertha's guests, upon which *Joe Turner's Come and Gone* is built, is transformed by Loomis' search, and so is each character. The collage becomes a coherent picture, the collective consciousness of a displaced people who lost their identity when brought to America as slaves. Freedom after the Civil War did not give them back their heritage or dignity. They were still trying to find it 50 years after the Civil War. Loomis' success would be a turning point for all the play's characters. Bynum said black people had lost their songs. It wasn't the people they'd lost who were important but in finding them they would find their songs again. They had to understand the importance of not giving up their search — the search for their heritage.

Joe Turner's Come and Gone was a song in itself flowing through the rhythm of the language chosen by Wilson. The painful intensity of Loomis' struggle to find himself was perfectly balanced with the joyous mystical faith of Bynum looking for his shiny man. The careful charac-

terizations by each actor in this production enriched the individual stories told. Delroy Lindo as Herald Loomis was superb, his stage presence powerful. The one flaw was the set and costumes which composed an unnecessarily drab palette of browns opposing the jubilant themes of the play.



Joe Turner's Come and Gone received its world premiere last April at the Yale Repertory Theatre. In a cooperative venture by the Huntington Theatre Company and the Yale Repertory Theatre, the current production is the original presented at Yale, including the same director and cast.



FLETCHER

The Program in Southwest Asia and Islamic Civilization

Speakers: Mr. Abdlatif Y. Al-Hamad, *Director General, The Arab Fund for Economic and Social Development, Kuwait.* Former Minister of Finance, Kuwait.

Topic: Development and financial issues in the Arab world.

Date: Oct. 8, 1986.

Time: 4 p.m.

Place: ASEAN Auditorium, Cabot Bldg., The Fletcher School at Tufts Univ.

Presented by:

The Program in Southwest Asia and Islamic Civilization
The Fletcher School of Law and Diplomacy
Tufts University
Medford, MA 02155

For further information: 628-7010 ext. 2734.

This event is open to the public and free of charge.

SOFTWARE PROFESSIONALS

EMTEK Health Care Systems — a member of Motorola's New Enterprises Group — is a dynamic, young company that's ready to help bring today's hospitals further into the age of automation. We need you to help us develop a state-of-the-art patient charting system at our headquarters in Tempe, AZ.

Based on Motorola's 68000 technology, this real-time UNIX and C-based system will provide sophisticated DBMS capabilities, as well as communications links with existing hospital systems.

We seek Software Engineers experienced in Architecture Design, Software Tool Design, Communications Protocols and/or QA of Software Systems.

Let us tell you more about EMTEK, and this exciting career opportunity during our college recruiting visit, October 15th at ASHDOWN HOUSE. Sign up with Career Planning and Placement today.

EMTEK
Health Care Systems
2929 S. Fair Lane
Tempe, AZ 85282

An Equal Opportunity Employer M/F/H/V

EMTEK COMPLETE CUSTOMER SATISFACTION

A Motorola New Enterprises Company



MOTOROLA INC.

"No Surrender" a disheartening black comedy

NO SURRENDER

Directed by Peter Smith.

Starring Michael Angelis, Avis Bunnage, Janus Ellis, Tom Georgeson, Bernard Hill, Ray McAnally, Mark Mulholland, and Joanne Whalley.

At the Nickelodeon.

By PETER DUNN

WEBSTER'S DEFINES FARCE as "an exaggerated comedy based on broadly humorous situations." So, does the following fall under the category of humorous situations?

The departing manager of a sleazy Liverpool club decides to annoy his mobster boss by reserving the joint on New Year's Eve for two loud mouthed groups of antagonistic Irish pensioners. The Prot-

estant Irish Orange Lodge is headed by Billy McRacken (Ray McAnally), a stout, bull of a man who confesses to have given up the warring ways of his youth only to be unwillingly drawn back into them by the events of the evening. Paddy Burke (James Ellis), a blind, mustached, bear of a man who is always trying to pick fights with more able, sighted opponents, heads the opposing clan of doddling Irish Catholics.

To complicate matters, the manager has arranged for a costume competition for the group of Catholics, so that they arrive in a multitude of garish attire. If that isn't already enough, the entertainment for the evening is similarly appropriate: a lame excuse for a punk band which, in mock punk style, is bombarded by rubbish from the unappreciative audience; an abusive comedian who arrives in mink coat with

his servile boyfriend; a nervous magician (in a humorous cameo role by Elvis Costello) with a dead rabbit under his hat.

Trying to get a handle on these madcap situations is the new manager of the club, Mike (Michael Angelis). His only real aids in this task are the club's bouncer, Bernard (Bernard Hill), a brainless hulk who is good at spouting Jimmy Cagney, tough guy lines, and Cheryl (Joanne Whalley), the pretty waitress who aspires to sing on stage at the club one day.

If these unbelievable situations are so madcap, it is a shame that the humor is so heavy-handed. Once the two groups arrive at the club, it is clear that the film wants to poke fun at these old codgers to drive home the point that in continuing their unnecessary squabble they are only making fools of themselves. Both groups appear pretty foolish but this only makes

them pathetic and never raises the film to the level of farce.

The problem is that the film attempts to sermonize in a serious tone after each farcical scene. Humor with serious commentary usually leads to both a very entertaining and a very relevant film but in the case of "No Surrender" the humor and the serious tone of the film are so dissociated that jumping between the two leaves the audience at a loss as to how to react.

"No Surrender" has noble aspirations in attempting to unveil some of the hypocrisy of the feuding between Protestants and Catholics but the humor never amounts to enough to back these intentions. Ultimately the film amounts to little more than a painful reminder of how depressing it is to grow old while the rest of the world changes.

Heart and soul in experimental music

CALIFORNIA E.A.R. UNIT

In Kresge Auditorium, Oct. 3

By SCOTT LICHTMAN

AS I SEE IT, MIT's Experimental Music Studio is on a crusade this year. From ads in local event publications to large, full color posters on campus, to the exciting performance of the California E.A.R. Unit Friday night, their manifesto is clear: Experimental, electronic music is not just for computer hackers anymore.

The EMS could not have chosen a better ensemble to introduce their series of events. Before an open-minded audience of 250, the Unit presented, in turns, compositions of cymbal sounds, cello and taped synthesized music, and a trio of piano, percussion and "Digital/Analog Hybrid Synthesizer."

Though some were simply mood pieces — washes of sound — and others a game of synthesizer-cat and human-mouse, all

of the pieces were truly *compositions* — developed for the musical listener, and not merely media for synthesizing electronic belches or amplifying randomly generated numbers. By and large, such a high standard of musicality is still a rarity in my experience with this modern art form. By integrating the traditional sounds of acoustic instruments, human composition and performance with digital synthesis, experimental music has found a home.

Indeed, the sophistication and maturity raised issues about the humanistic uses of technology in general:

1) *Complexity breeds blunder.* One piece, ironically entitled *Hanging in the Balance*, required three starts before the sound mix between cellist and taped accompaniment was correct, and the taped sequence was rewound properly.

2) *In increasingly humanistic areas, computers are finding niches where they perform better than their creators.* The evening's finale, *The Key to Songs*, featured two pianos, multiple percussion in-

struments, cello and violin, strictly synchronized to a conglomeration of synthesized arpeggios and crashes. The synthesized sounds were controlled by a computer sequencer, making it possible to play the notes at speeds and accuracy much greater than any person. Surprisingly, these sounds were also the most prominent and complex in the piece.

Of course, it is a credit to the talent of *The Key to Songs* composer, Morton Subotnick (who is composer in residence at the Experimental Music Studio this term) that he could sure-handedly balance the electronic and human elements. His willingness to give the "tech" element its own space while creating an exciting performance piece is a sign of creativity and insight.

Each of the evening's "experiments" was, at least in part, a success. The corrected performance of *Hanging in the Balance*, with its intimate interaction of cello and taped material, was a favorite of some

cally-brilliant exchange of piano and percussion sounds, while a computer/synthesizer rearranged the stereo balance of the two instruments inside the auditorium.

It will be interesting to watch the genre develop and extend into previously untried areas. For example, nearly every composition was moody and serious. It reminded a fellow listener of breaking up with an old girlfriend, perhaps a sadistic one. The field of experimental music might still be too young to present lightweight, atonal "pop music" with confidence (or perhaps not, EMS). The pieces, too, could have benefited from a human voice element. On the whole, however, the visions of the Experimental Music Studio and the California E.A.R. Unit should be taken seriously, as well as enjoyably.

(Editor's note: Morton Subotnick will speak on his trade in the Bartos Theater of the Wiesner Building (E15) today at 4:30.)

Unique performance at MOBIUS

HOW TO PLAY THE SYNTHESIZER (ANALOG)

EFFICIENT CYCLING TECHNIQUES

Presented by the Laymen Lecture Series.

Performed by Andrew Neumann.

Remaining performances Oct. 10 and 11, 8 pm at MOBIUS (542-7416).

By SIMSON L. GARFINKEL

MOBIUS is, among other things, a space for experimental performance artists to perform in. The most interesting performances I have witnessed in Boston over the past three years have been held there. Last weekend, I had the unique experience of being present at the opening night of Andrew Neumann's lectures.

The experience was unique because nobody else attended. Perhaps Thursday night is the wrong night for experimental artists to open shows in Boston. I wasn't sure about what was going on, so I asked if it would be better if I came back the next night.

"No," I was informed a few minutes later, "he wants to do it anyway."

I entered the theater and watched Andrew Neumann perform two half-hour lectures. Neumann's material was good,

but he definitely needed the practice of an additional dress rehearsal. Despite his roughness and occasionally stumbled lines, the evening was an enjoyable one.

How to Play the Synthesizer (Analog) was about, well, how to play the synthesizer. Neumann answered fundamental questions, such as "What is sound," "What is a synthesizer," and "What is analog." Although his descriptions of voltage controlled oscillators, filters, and amplifiers were rather superficial, most of the concepts were demonstrated on one of the three synthesizers that accompanied him on the stage. His discussion of "the propagation of airwaves that move through the air" was rather humorous. The highpoint of the lecture occurred when Neumann connected his three synthesizers together to produce an ensemble of sound.

Efficient Cycling Techniques was the less informative of the two lectures, but felt closer to stream-of-consciousness experimental performances I have witnessed before at MOBIUS. A movie projector and indoor bicycle trainer added an unexpected sense of realism to the performance. The prospects of learning anything about bicycling from this lecture are slim, but the performance was well worth watching.



The Tech is pleased to announce the return of . . .

The Tech Performing Arts Series,

a service for the entire MIT community from *The Tech*, in conjunction with the *Technology Community Association*, MIT's student community service organization.

Special reduced-price tickets now available for:

KRYSTIAN ZIMERMAN

Pianist Krystian Zimerman will play Beethoven, Schubert, and Schumann in Symphony Hall, Friday October 17, 8 pm. MIT price \$5

ANNER BYLSMA & MALCOLM BILSON

Dutch cello virtuoso Anner Bylsma and American fortepianist Malcolm Bilson, among the world's foremost authentic instrument performers, will play rarely heard chamber works of Beethoven in a recital next month.

Jordan Hall, Oct. 25, 8 pm. MIT price \$3.50

Tickets will be sold by the *Technology Community Association* W20-450 in the Student Center. If nobody is in, please leave your order and your phone number on the TCA answering machine at 253-4885. You will be called back as soon as possible.

Information Services

Management Training Program

at

Morgan Stanley

One of Wall Street's leading investment banking firms invites Bachelor's and Master's candidates of all majors to apply to our Information Services Management Training Program.

We are seeking FALL GRADUATES and RECENT ALUMNI with superior academic records.

OUR PROGRAM OFFERS:

- *An environment with high intellectual standards and sophisticated approaches to the markets.*
- *Rapid career progression.*
- *An outstanding compensation program.*
- *Significant level of technological training focused on the securities industry.*
- *A means of establishing a career on Wall Street.*
- *A commitment to maintaining a competitive edge.*

MIT Recruiting Date: Thursday, October 16

Interested students can sign up now at the Office of Career Services.

MORGAN STANLEY & CO.

Incorporated

Manager, IS College Recruiting

1633 Broadway, New York, NY 10019

Morgan Stanley is an Equal Opportunity Employer.

MIT's black grad enrollment steady

(Continued from page 1)

small, Turner observed. But most of these applicants are accepted into graduate school, he added.

MIT black graduate enrollments are steady

MIT's black graduate enrollment for the last five years has been very steady, averaging 95 students. This year's enrollment is 95 students.

Turner attributed the stability of MIT's black graduate enrollment to recruitment programs aimed at increasing the number of under-represented minorities in graduate school. These programs have been in operation since 1972, he added.

"MIT is making an effort," Turner said. "MIT probably does better than any graduate school in the US at attracting minorities. Usually six blacks in the country are awarded a PhD in physics, and two are always from MIT."

MIT, along with the 20 other engineering and science graduate schools, participates in the National Name Exchange Program, a program in which participating schools exchange names of minority juniors that are interested in attending graduate school, Turner explained.

MIT is also a part of the Lincoln Laboratory Summer Minor-

ity Research program which affords graduate and undergraduate students the opportunity to improve their engineering and scientific skills, Turner said. During the ten-week program, participants receive weekly salaries as well as room and transportation.

The National Consortium for Graduate Degrees for Minorities in Engineering, Inc., has a program in which MIT and 50 graduate schools and several research laboratories participate. Students apply in their junior year, and once accepted, are guaranteed a summer job at a research laboratory and a fellowship for a master's degree in engineering or science.

Turner said, "The best way to market a product is to have a good product. When MIT students feel good about themselves, it is seen by others when they return to their alma mater. This is the best recruitment for our graduate school."

There are currently 21 blacks in the department of electrical engineering's graduate school and 15 years ago there were only two, Turner observed. Turner feels there is a trend that more blacks are studying the pure sciences and engineering and fewer are majoring in the social sciences.

Two Wellesley students abducted at gunpoint

By Ben Z. Stanger

Two Wellesley College students were abducted at gunpoint early Saturday morning, according to a bulletin issued by Wellesley Dean of Students Molly Campbell.

The two students were waiting for the Senate bus at 3:15 am in front of the Eliot Lounge in Boston when a man forced the students into his car and drove them to Newton.

When the assailant reached Newton, he forced one student out of the car and drove the other to a secluded area and raped her. He then forced the victim to

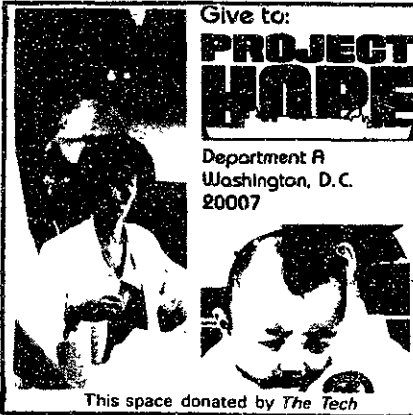
drive to a gas station where she escaped and telephoned for the police.

The Wellesley town police apprehended a suspect later Saturday morning.

The Senate bus, which operates only on weekends, stops at MIT, Harvard, Wellesley, and the Eliot Lounge near the corner of Massachusetts Avenue and Commonwealth Avenue where the abduction occurred.

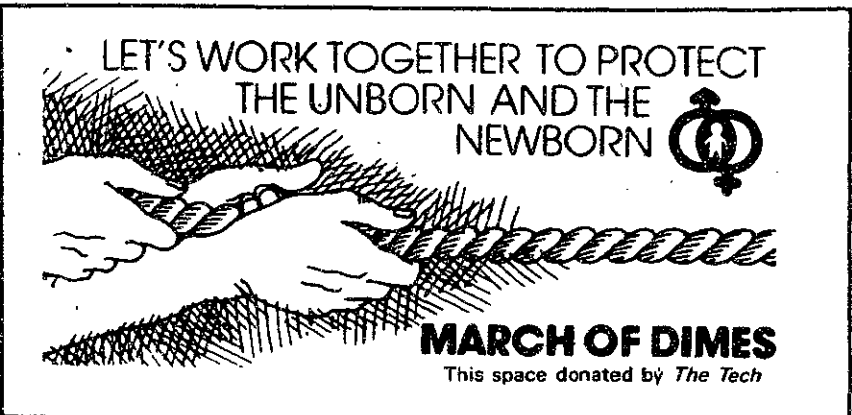
Campbell said, "We are all thinking about moving the location of the Commonwealth Avenue stop."

Give to: **PROJECT HOPE**
 Department A
 Washington, D.C.
 20007



This space donated by The Tech

LET'S WORK TOGETHER TO PROTECT THE UNBORN AND THE NEWBORN



MARCH OF DIMES
 This space donated by The Tech


Merrill Lynch Capital Markets

Public Finance Group

Hosts an Information Meeting

Thursday, October 16, 1986
 7:00pm - 9:00pm
 Room 4-270

Refreshments will be served



Presenting Classic Computer's Special Deal On Completely Turn-key, Packaged Computer Systems

Get More for Less

<p>Get more computer... Brand-new PCXT computer system Desk-top model 256K RAM and 360K floppy capacity Keytronics-style keyboard 8 expansion slots Monitor with cable 135-Watt power supply Video and serial cards</p> <p><i>Plus</i> FREE Power surge protector FREE 10 DSDD diskettes with sleeves, labels and write-protect tabs</p>	<p>With more FREE programs... MS/PC DOS 2.1 or comparable software Word-processing program Communications software Spreadsheet software Database file-management software Printer software Spooler and Ramdisk programs And 10 fun-filled computer games including Packman, Blackjack, Racecars, Trivia and lots more!</p>	<p>For less than you'd ever imagine! \$749⁹⁹ <small>Shipping, handling and taxes extra.</small></p> <p><i>You can't beat this value anywhere!</i></p> <p>Need added peripherals for your system? Just add: \$120 for a 2nd Disk Drive \$199 for a 384K Multi-Function Card \$215 for a 1200-baud Internal Modem \$235 for an Epson LX-80 Printer \$360 for a Color Monitor \$550 for a 10-Megabyte Hard Disk with Controller Card</p>	
---	---	---	---

And the new PCXT is IBM-compatible!

The PCXT comes with a 2 year warranty. Limited quantities available. Call today for immediate delivery!

Classic Computer

A comparison shopper is our best client.

617-662-3340

©1985 NYCCLD/B/A CLASSIC COMPUTER



Boss's Day is Thursday, Oct. 16! Tell them what a good job they're doing by sending a Hallmark card.

Kendall Drugs
Your MIT Community Drugstore
Kendall Square 492-7790



Manseur's
your **IMAGE** is our career.
Hair & Skin Care Salon

536-1605

"THE BEST CUTS IN BOSTON"
231 Newbury Street
Offers valid with all stylists except owners & selected stylists

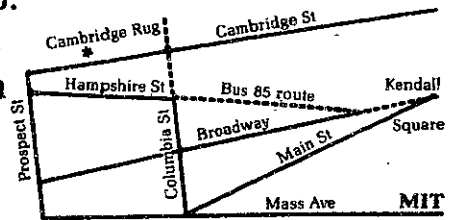
Save \$5 on haircuts with this coupon
Monday-Friday thru 11/15/86

9' x 12' Bound Rugs Starting at \$79.95

Top Quality Remnants and Room-Size Rugs at Low, Low Prices

Wide Selection • Convenient Location

Cambridge Rug Co.
1157 Cambridge St.
Inman Square Area



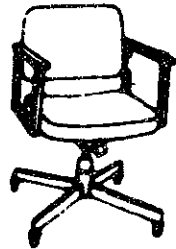
354-0740

Student Sale
Swivel Chair, File Cabinets, Folding Tables (New and Used)

Swing-arm Lamps
Starting at **\$15.99**

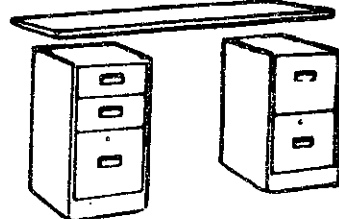
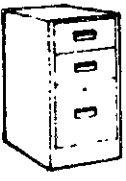
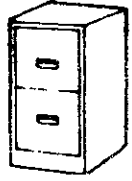


Executive Swivel Chair
Reg. \$125
\$77.00



Reg. \$98.50
\$69.00

Reg. \$37.99
Sale \$22.50

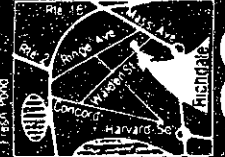


List \$121
Sale \$75.00

List \$144
Sale \$89.00

Formica Tops
\$36.00 (Available in 3 colors)

Used Student Desks \$50 and up



CAMBRIDGE OFFICE FURNITURE
(617) 876-6790
113 Richards Ave. Cambridge, MA 02140 Open Mon-Fri 8-5

Honda Owners

- NOW SPECIALIZING IN HONDA CARS ONLY
- ALL WORK GUARANTEED
- HONDA FACTORY TRAINED MECHANICS
- HOURLY RATE: \$6.00 BELOW DEALER

CARL'S SUNOCO

HONDA HOUSE

209 Broadway, Camb., MA 547-1950
(NEAR KENDALL SQUARE AND MBTA)

5% Off All Labor

On any Honda with this coupon
GET IT DONE RIGHT THE FIRST TIME AND PAY LESS!!

Automatic and standard transmission repairs and internal engine repairs are our specialties

YOM KIPPUR SERVICES

5747/1986

REFORM (Chapel)

Sunday, October 12, 6:30 pm

Monday, October 13, 10:00 am & 4:30 pm

CONSERVATIVE (Stu. Ctr. Sala de Puerto Rico)

Sunday, October 12, 5:30 pm

Monday, October 13, 8:30 am & 3:30 pm

(Stu. Ctr. Mezzanine Lounge)

Tickets will be required for all Sunday services. Students can pick up free tickets in Lobby 10 on Oct. 9 or in Hillel Oct. 6-10. Non-students should contact Hillel.

A pre-fast meal will be served in the Kosher Kitchen (Walker Hall, Room 50-007) on Sunday, October 12 at 4:00 pm. The cost is \$6.50. Payment can be made with validine or cash.

A community break fast will be held in the Sala de Puerto Rico for participants of all services.

SPONSORED BY MIT HILLEL, 312 MEMORIAL DRIVE, 253-2982

SLOAN UNDERGRADUATE MANAGEMENT ASSOCIATION

PRESENTS

OUR FIRST GENERAL MEETING OF THE YEAR

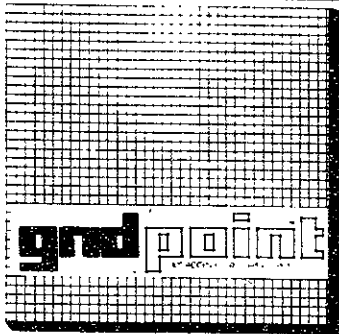
IF YOU ARE INTERESTED IN WHAT SUMA CAN DO FOR YOU WITH RESPECT TO:

- RESUME BOOK
- PROSPECTIVE COMPANIES
- RESEARCH OPPORTUNITIES
- MEMBERSHIP
- CURRICULUM
- EVENTS
- JOBS
- VIDEO-TAPED MOCK INTERVIEWS

PLEASE ATTEND:

THURSDAY, OCTOBER 9
4:00 p.m.
ROOM 4-159

Refreshments will be served



QUICK FIX

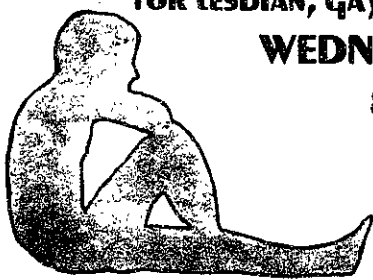
You'll never miscount or lose your way using GRID POINT, the revolutionary new Dot Accented Grid Paper. A faint dot at every fourth intersection (eighth for 8x8 grid) allows you to fix your position at a glance. 96 sheets of 8 1/2" x 11" bright white opaque paper printed in non-repro blue, bound in book form yet perforated for easy removal. Only \$4.95 at all better artists' supplies shops - or write to Taplinger Publ., 132 West 22nd Street, New York, NY 10011. Add \$1.00 for postage.

GAY? YOU ARE NOT ALONE

NEW PERSON'S MEETING

FOR LESBIAN, GAY, AND BISEXUAL STUDENTS
WEDNESDAY, OCTOBER 8
 8:00 pm, Room 50-306

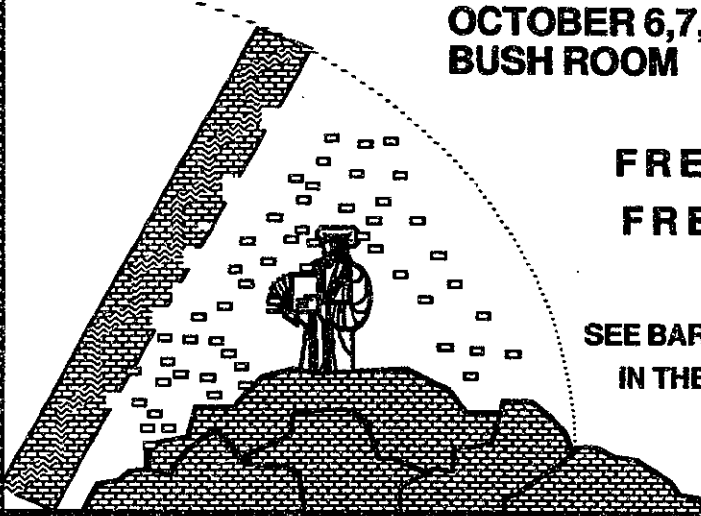
CALL x3-5440 FOR
 MORE INFORMATION
GAYS AT MIT



Overwhelmed?

Do Something About It...
 at the **STUDENT FINANCIAL
 AID TELETHON!**

Tuition:
\$11,800



OCTOBER 6,7,8 6-10 PM
BUSH ROOM 10-105

**FREE DINNER
 FREE PRIZES**

SEE BARBARA PETERSON
 IN THE ALUMNI CENTER
 ROOM 10-110
 x3-8234

**ATTENTION
 All Graduate Students**

The Graduate Student Council will conduct interviews for seats on Institute Committees on

Wednesday, October 15, 1986
 beginning at 5:30 p.m.

and on

Thursday, October 16, 1986
 from 2:00 to 4:00 p.m.

All interested graduate students are invited to apply for seats on the committees listed below. For an application, further information, and to schedule an appointment, please contact the

Graduate Student Council (GSC) office
 at x3-2195.

Committee & Number of Openings for Graduate Students:

- | | |
|---|--|
| Committee on Graduate School Policy (1) | Committee on the Visual Arts (2) |
| IAP Committee (2) | Committee on Shareholder Responsibility (1) |
| Community Service Fund Board (2) | Prelaw Advisory Council (1) |
| Committee on Equal Opportunity (2) | Medical Advisory Board (2) |
| Committee on International Institutional Commitments (1) | Committee on Sexually Explicit Films (3) |
| Committee on Safety (1) | Committee on Foreign Scholarships (1) |
| Committee on the Use of Humans as Experimental Subjects (2) | Ad Hoc Committee on Military Impact on Campus Research (2) |

**THE
 PASSION OF
 AYN
 RAND
 A BIOGRAPHY BY
 BARBARA
 BRANDEN**



"Ayn Rand's eyes haunted me through nineteen years. Perhaps they haunt me still."

Out of those years of intimate friendship and professional association, Barbara Branden has produced a landmark: the first major biography of one of the most controversial and enigmatic literary figures of the twentieth century.

"A fascinating insight into one of the most thoughtful authors of this century."

-Alan Greenspan

DOUBLEDAY

**RENT A
 TERMINAL**

from **\$1** per day

INCLUDING MODEM

CALL THE TERMINAL EXCHANGE
 171 AMORY STREET, BROOKLINE
 731-6319

Great For Word Processing!

Around the corner from the Corn. Ave. Ski Market

- Rent with a friend and save even more
- Write and run computer programs in the comfort of your home
- Word processing for term papers, reports, etc
- Ideal for heavy workloads
- 50% of rental payment applied towards purchase
- Hard drive and floppy systems in stock
- Computer terminals, modems and printers also available for rent.
- No credit check
- Favorable long-term rates

**ALSO AVAILABLE FOR PURCHASE OR LEASE/PURCHASE.
 THIS OFFER IS BASED ON A LIMITED NUMBER OF COMPUTERS.
 FIRST COME FIRST SERVED, SO CALL TODAY!
 FOR ALL THE INFORMATION WITH NO OBLIGATIONS
 CALL THE TERMINAL EXCHANGE-731-6319.**



MA MASTERCARD ACCEPTED

Congratulations!!!

Alpha Kappa Alpha Sorority, Inc.
Lambda Upsilon Chapter

for
 9 years of service to the
 MIT/Boston Communities

Chartered October 8, 1977, Lambda Upsilon was the 1st sorority on the campus of MIT. The chapter consists of women from the campuses of Harvard, MIT and Wellesley.

Alpha Kappa Alpha Sorority, Inc. was founded January 15, 1908 on the campus of Howard University in Washington, D.C. Our motto is:

Service to All Mankind

sports

Volleyball team wins two Thursday

By Jerome Braunstein

The women's volleyball team increased its record to 11 wins and one loss Thursday night, defeating both Mount Holyoke College and Eastern Nazarene College. MIT beat MHC 12-15, 15-2, 15-4 and ENC 15-7, 15-7.

In the first game versus MHC, the Lyons took a slight lead 6-4. The Engineers fought back to a 10-8 lead. But a lack of solid hitting and organization cost the Engineers the game, 12-15.

Captain Rachel Chin '87, who sat out most of the first match because of sore knees, joined her teammates in the second. The Lyons started off with two quick points, but that turned out to be all they could score. With controlled hitting and improved blocking by middle hitters Bernadine Ai '88 and Judy Mourant '87, the Engineers took the game scoring 15 unanswered points, 15-2.

In the third game, the Lyons once again took the lead, 4-3. And once again, MIT's superior playing and good communication drove the Engineers to victory, 15-4.

The match against ENC was a

pleasure to watch. The game opened very closely as the two teams battled to a 5-5 tie. But MIT suddenly stormed ahead. Superb passing and setting by Karen Koyama '89 made it all too easy for the outside hitting of Chin, Teri Lowenstein '89, and

Julie Brown '88. The Engineers earned a 15-7 win.

The Crusaders took a strong lead 7-3 in the second game. But the Engineers once again battled back. Brown served for twelve straight points. Only half of Brown's serves were returned.

Weekend sports update

Sailing team captures Smith Trophy

The MIT varsity sailing team put in several impressive performances in regattas this past weekend. The Engineers captured their first trophy in three seasons, finishing first in the Smith Trophy race. MIT also placed third in the BU Trophy competition, and fourth in the race for the Wood Trophy.

Lee I. Hetherington '88 and Thomas W. Humphrey '88 represented MIT at the Smith Trophy competition.

MIT qualified to be one of the six finalists at the New England Sloop Championships to be held in two weeks.

Golf team second in weekend match

The golf team played a three-way match over the weekend against Assumption College and Babson College. The final score was Assumption 328, MIT 331, and Babson 334. Eric Asef '87 and Gary Zentner '87 were the two lowest scorers.

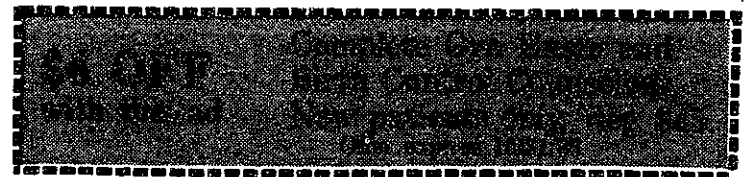
Cross country second in Syracuse tournament

The men's cross-country team finished second out of 19 teams at the LeMoyne Invitational held in Syracuse, NY.

David Lyons
Earl C. Yen

Birth control is up to you.

Protect yourself against an unwanted pregnancy. Choose a contraceptive that's right for you. Talking with a Preterm counselor who understands can help you work through this personal decision. And, you can depend on our experienced medical staff for high-quality gynecological care.



Call 738-6210.

Preterm | Gynecology

1842 Beacon Street, Brookline, MA 02146

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 PO Box 29, MIT Branch, Cambridge, MA 02139.

PENSARI(TM) - The new inductive game that simulates the search for natural laws. For one or more intellects. Complete with icon-cards and guidebook. Student price \$10 postpaid. Kepler Press, 84 Main, Rockport, MA 01966.

SUPERIOR-QUALITY WORD PROCESSING

Technical/non-technical. IBM PC, letter-quality printer. Papers, theses, reports, etc. Davis Sq., Somerville. For rates and prompt, reliable, GUARANTEED service, call Stuart Stephens, 628-6547.

Wanted!!!

Aggressive, enthusiastic students to market Winter and Spring Break vacations! For more information, call Student Travel Services at 1-800-648-4849.

Great Child-care Job

for Spouses of Full-Time Students Caring, intelligent person needed to care for two year old girl, M-F, full time in Newton Centre T stop. Pays \$5-8/hour. For this job and many other great childcare opportunities: call Parents in a Pinch, 739-KIDS!

Assistant Managers, Salespeople, General Help

\$125/wk. plus. 15-20 hours/wk in new local branch of National Co. Eight positions available immediately, no experience, flexible hours. Ideal for students. (617) 396-8208.

Arlington 4 bedroom, 2 bath modern eat in kitchen, living room, dining room, den, 2 porches, parking, yard, 2 blocks to Alewife T, 1 block to Mass. Ave. \$1100. No fee. Hunneman. Better Homes & Gardens. 864-4430

Do you need to talk to an attorney? Consultations for real estate, business and consumer law, trademarks, computer law, contracts, negligence, personal injury, automobile accidents, divorce and civil or criminal litigation. Offices convenient to MBTA in Government Center in Boston. Call Attorney Esther J. Horwich, MIT '77 at 523-1150

FIGHT POLLUTION AND GET PAID FOR IT

FT. and PT. JOBS available. Gain valuable campaign experience. Communication skills a must. Work for SOCIAL CHANGE! Earn \$33-50/day. Call CLEAN WATER ACTION 423-4661.

The MIT Equipment Exchange offers surplus equipment and used typewriters to students and staff at reasonable prices. Located in Building NW30, 224 Albany Street.



© TRW Inc. 1986. TRW is the name and mark of TRW Inc.

Key Opportunities

**TRW
Will Be
On Campus:
October 23, 24 & 29**

The future is under your fingertips. And TRW may hold the keys to your future. Our Electronics and Defense Sector can offer you a seemingly endless choice of opportunities. Opportunities in Microelectronics, high energy lasers, large software systems, communications and scientific spacecraft.

With your ideas, TRW will continue to make firm impressions in the future. Key into tomorrow's technology today.

Please see your Campus Placement office for additional information.

Tomorrow is taking shape at a company called TRW.

Equal Opportunity Employer
U.S. Citizenship Required

TRW
Electronics
& Defense Sector

FINALLY A FREE FLIGHT PLAN JUST FOR STUDENTS. YOU WON'T GET A BREAK LIKE THIS ONCE YOU'RE OUT IN THE REAL WORLD.

INTRODUCING COLLEGIATE FLIGHTBANK, FROM CONTINENTAL AND NEW YORK AIR.

If you're a full-time student at an accredited college or university you can join our Collegiate FlightBank.SM You'll receive a membership card and number that will allow you to get 10% off Continental and New York Air's already low fares. In addition, you'll get a one-time certificate good for \$25 off any domestic roundtrip flight. Plus, you'll be able to earn trips to places like Florida, Denver, Los Angeles, even London and the South Pacific. Because every time you fly you'll earn mileage towards a free trip. And if you sign up now you'll also receive 3 free issues of BusinessWeek Careers magazine.



This Porsche 924 can be yours if you are the national referral champion.

SIGN UP YOUR FRIENDS AND EARN A PORSCHE.

But what's more, for the 10 students on every campus who enroll the most active student flyers from their college there are some great rewards: 1 free trip wherever Continental or New York Air flies in the mainland U.S., Mexico or Canada.

Or the grand prize, for the number one student referral champion in the nation: a Porsche and one year of unlimited coach air travel.

And how do you get to be the referral champion? Just sign up as many friends as possible, and make sure your membership number is on their application. In order to be eligible for any prize you and your referrals must sign up before 12/31/86 and each referral must fly 3 segments on Continental or New York Air before 6/15/87. And you'll not only get credit for the enrollment, you'll also get 500 bonus miles.

So cut the coupon, and send it in now. Be sure to include your current full time student ID number. That way it'll only cost you \$10 for one year (\$15 after 12/31/86) and \$40 for four years (\$60 after 12/31/86). Your membership kit, including referral forms, will arrive in 3 to 4 weeks. If you have a credit card, you can call us at 1-800-255-4321 and enroll even faster. Now more than ever it pays to stay in school.

SIGN ME UP NOW! (Please print or type) 1 Year (\$10) 2 Years (\$20) 3 Years (\$30) 4 Years (\$40)
Must be submitted by 12/31/86

Name _____ Date of Birth _____
College _____ Address _____ Zip _____
Permanent Address _____ Zip _____
Full time student ID # _____ Year of Graduation _____
\$ _____ Check/Money Order Enclosed PLEASE DON'T SEND CASH
 American Express Visa MasterCard Diner's Club
Account Number _____ Expiration Date _____
Signature **X** _____
FOR MEMBERSHIP APPLICANTS UNDER THE AGE OF 18: The undersigned is the parent/guardian of the membership applicant named hereon, and I consent to his/her participation in the Collegiate FlightBank program.
Signature **X** _____
Send this coupon to: Collegiate FlightBank
P.O. Box 297847
Houston, TX 77297 815
Complete terms and conditions of program will accompany membership kit.



Some blackout periods apply for discount travel and reward redemption. Complete terms and conditions of program will accompany membership kit. Certain restrictions apply. Current full time student status required for each year of membership. To earn any prize a minimum of 12 referrals is required. All referral award winners will be announced by 8/1/87. 10% discount applies to mainland U.S. travel only. Students must be between the ages of 16 and 25. Porsche 924 registration, license fees, and taxes are the responsibility of the recipient. © 1986 Continental Air Lines, Inc.

sports

Volleyball sweeps Smith, 3-0

By Paul Paternoster

After surviving a tough opening game, the women's varsity volleyball team got down to basics and defeated the energetic Smith College squad in three straight (16-14, 15-5, 15-9). The victory on Saturday improved the Engineers' record to 12-1 on the season.

MIT's opponent showed a lot of enthusiasm throughout the match. Smith players constantly cheered each other on in an effort to psyche up the team. It appeared to work for a while, as Smith jumped to an early 6-1 lead in the opening contest. However, the Engineers showed that superior volleyball skills and teamwork are really what wins points.

The Engineer's big hitter, Teri Lowenstein '89, dazzled the crowd with some unbelievable hits. Many of her early hits were recovered by Smith, only due to acrobatic maneuvers by the back-line players. As the match progressed, however, there was no stopping Lowenstein. The unsung hero of the first half of the match was Karen Koyama '89. Without her picture perfect sets, Lowenstein would not have had as impressive a game as she did.

Captain Rachel Chin '87 and Judy Mourant '87 helped MIT tie the first game at 6-6 with some key blocks and well-positioned shots off Koyama passes. Bernie Ai '88 filled her center blocking spot well, rejecting many Smith attempts for points.

Play started to get a little sloppy on MIT's side, long enough to enable Smith to take a five point lead 11-6. Then Chin served. As spectator Matt Kelley '88 succinctly put it, "Wow!" When

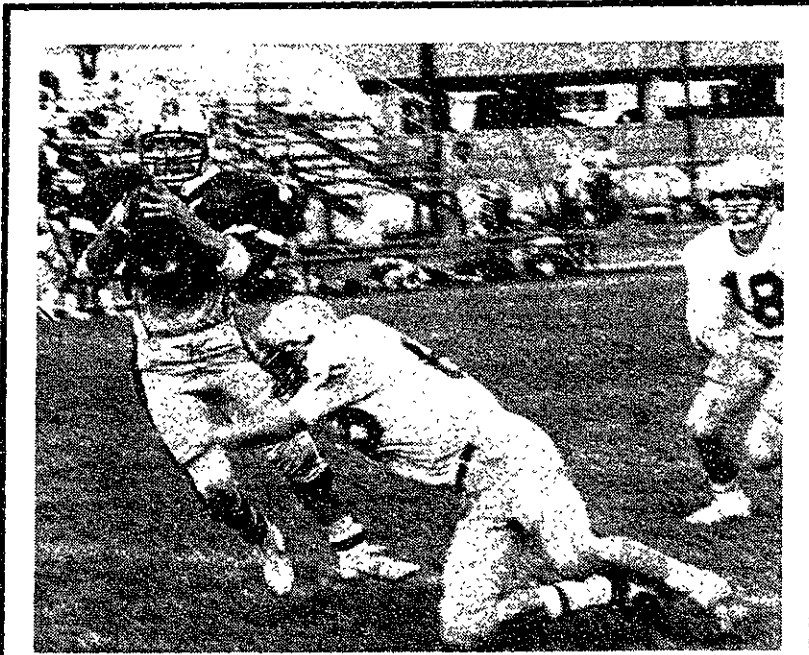
Smith was able to return the serves, Ai and Lowenstein were there to hit for points, turning the tables and putting MIT ahead 14-11.

Smith College was not finished, as they battled to tie the game at 14. The Engineers won the game on the longest volley of the day after Chin tipped the ball into a gap on the opposing court.

Game 2 was vintage MIT volleyball. Mourant and Lowenstein shined, largely due to Koyama's setting. The Engineers took a 9-1 lead. Coach Altman mixed things up after that, substituting many of her players. Wendy Walters '90 took over as setter and did a respectable job as MIT won 15-5.

The third game was similar to the second. Once again the Engineers took a 9-1 lead. Solid serving by Cecilia Warpinski '90 and Rajni Aggerwal '89 along with the blocking of Ai and Mourant put Smith away early. Inexperience on the part of the new players barely showed its face, but the Tech lead was cut to 9-6. In the remainder of the game MIT capitalized on sloppy play by Smith, and cruised to a 15-9 victory.

The Engineers look to rise in the national rankings for Division III. Their next opportunity will be Thursday night at 7 pm, when they take on Wellesley in DuPont.



Steve Sisiak/Technique
Hong Mo Yang '87 intercepts a pass near the Merrimack 20-yard line during the fourth quarter of Saturday's game, setting up the Beavers' last touchdown. MIT won 27-0.

Football wins third straight

The MIT club football team improved its record to 3-1 with a convincing 27-0 victory over Merrimack College Saturday at Briggs Field.

The MIT ground game continued to roll over opposing defenses, as the MIT backfield's 425 total rushing yards set a new record.

Christopher J. Adams '87 led the Beavers' attack; his 152 yards was his third consecutive 100-yard effort. Adams scored twice, giving him a team-leading seven touchdowns. Hugh Ekberg '88 also topped 100 yards on the day, averaging over 7 yards per carry and scoring once.

The offensive player of the week for the Beavers was the entire line, consisting of Arthur Gregory '87, Daniel T. Dismukes '88, Thomas Spaight '88, Samuel Druker '89, John Ryan '89, and Bob Kupbens '90.

MIT 27, Merrimack 0

Merrimack	0	0	0	0	0
MIT	14	7	6	0	27

MIT - Adams 6 run (Reyes kick)
MIT - Gasparini 7 run (Reyes kick)
MIT - Ekberg 8 run (Reyes kick)
MIT - Adams 2 run (kick failed)

	MIT	Merrimack
First downs	25	6
Rushes-yards	72-425	27-84
Passing yards	30	13
Passes	2-5-0	3-12-2
Fumbles-lost	4-2	3-1
Penalties-yards	6-35	5-55

MIT Individual Leaders

Rushing - Adams 24-152, Ekberg 17-131, Maeda 15-73, Gasparini 7-42, Naugle 3-15, Reyes 4-12, McIntyre 2-1.
Passing - Gasparini 2-4-0-30, Naugle 1-0-0-0.
Receiving - Ekberg 1-18, Corless 1-12.
Punting - Gasparini 1-42.
Field Goals - Reyes 0-1.
Interceptions - Buellesbach, Yang.
Fumble Recovery - Kupbens.
Sacks - Moreno, Rice.
Tackles - Anderson 11, Yang 5, Arnold 5, Moreno 4, Naugle 4, Pirkets 4, Mitchke 4.

EYEGLASS & World

Complete Optical Shop

We have the new plastic scratch resistant lenses

Fashion frames at reasonable prices

Instant eye exams

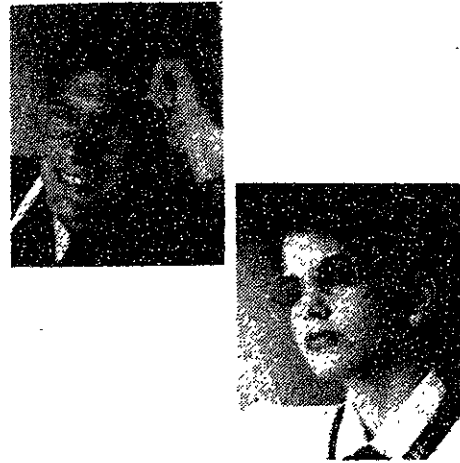
• Prescriptions filled

• Fashion tints and photo changeables

• Contact Lenses 60 Day Trial

• Large Selection of Ray Ban Sunglasses

• Sport Frame Available



Exclusively from **Marchon**

Central Square, 495 Massachusetts Avenue, Cambridge Mass. 02139 Tel: 661-2520

The GSC Housing & Community Affairs Committee

is holding an open forum to discuss the new proposed graduate housing tenure policy.

This meeting will be held on **Thursday, October 9, 1986** at 6:00 p.m.

in the GSC Lounge, Walker, 2nd floor front, Bld. 50-220.

All interested students are encouraged to attend and voice their opinions.

We're better*, we're faster**, And we're closer***

QUOTE-

CHEAP EATS

Food's fresh and homemade at renovated Cambridge site

...Everything here is wonderfully fresh and absolutely homemade, from the dense and chewy dinner rolls to the elegant desserts... The Woven Hose, a kind of upscale cafeteria and bakery, is delightful to look at with its exposed beams, brick and granite walls, fresh flowers everywhere and a courtyard for dining al fresco when the weather permits. The menu leans towards salads, sandwiches, burg-

ers, omelets and absolutely stupendous desserts. Beverages include wine by the glass and an interesting selection of bottled beers.

Turkey salad consisted of chunks of tender meat beathed in a mild curried mayonnaise and garnished with cashews, red and green peppers, crumbled bacon and two kinds of raisins. It was heaven. A green bean salad was nearly as good, crispy beans tossed with tangy feta cheese and walnuts in a garlicky vinaigrette. Fresh fruit salad was precisely that with some of the sweetest pineapple we've tasted in a long time. Cold fried

chicken with potato salad was wonderfully old-fashioned and good...

Whatever you do at the Woven Hose, be sure to save room for dessert. Then indulge in creme brulee, creamy custard with a crust of caramelized sugar. Or dense and nutty hazelnut cheesecake. Or a perfectly poached pear with ginger sauce. Or le Marquis, a mocha torte filled with vanilla buttercream and glazed with chocolate...

-UNQUOTE

- Mary Jane Patroné, writing in the Calendar Section, *The Boston Globe*, June 19, 1986

The Woven Hose Cafe

* than the Ritz, Legal Sea Foods, the F&T and other favorite local eateries. That's because we use the freshest produce and the best recipes. We make all our own breads, cakes, pies and pastries. And we make them fresh every day. Our desserts are literally incomparable because no one else offers anything like them; where else can you get apple pan dowdy, ginger roulade, hazelnut cheesecake or fresh plum pie right out of the oven?

** than the Ritz, Legal Sea Foods and other favorite local eateries. That's because we serve our wonderful food cafeteria style. Which means that you can speed in and out or linger and enjoy our homey ambience as well as our homemade food, and that - also like home - tipping is unnecessary.

*** than the Ritz and almost all other favorite local eateries. That's because we are just a five minute walk from MIT, just at the back of the One Kendall Square plaza, just past the new Draper Lab where Hampshire Street runs into Broadway. Go straight across Portland Street from Tech Square or walk to the end of Vassar, cross to Broadway and turn left up Hampshire. Finding the Woven House is like finding a little treasure in your own back yard.

Breakfast, lunch, early dinner
7 am to 7 pm Monday - Friday



One Kendall Square
Cambridge, Massachusetts
(617) 577-8444