



Tech File Photo



Photo Courtesy MIT News Office

Louis Menand III and Sylvia Ceyer won this year's Baker Teaching awards.

Ceyer, Menand get teaching award

By Andrew L. Fish

The 1988 Everett M. Baker Award for Excellence in Undergraduate Teaching was awarded to Professor Sylvia Ceyer of the Department of Chemistry, and Senior Lecturer Louis Menand III of the Department of Political Science. The awards were among the 23 given at Wednesday's Awards Convocation.

The Baker Award has had the reputation of the "kiss of death" for junior faculty, with 17 of its past recipients denied tenure. But Ceyer was recently tenured, and Menand, a non-tenure track instructor, is retiring this year.

Ceyer said she was "delighted" with the award because it came from the students. "This means a lot to me," Ceyer said. "Words don't do it justice."

Ceyer, who has been at MIT for seven years, has taught two undergraduate classes — Introductory Chemical Experimentation (5.311), the first class in the chemistry laboratory sequence, and Physical Chemistry (5.62). She was honored with the Harold E. Edgerton '27 Faculty Achievement Award last year, and received notification of her tenure approval at the end of March.

Ceyer, a surface chemist, said it was "important to do your teaching very well and do your research very well." She said "faculty do care about teaching," and "nobody wants to go in and confuse other people." She said there was a "drive for excellence" among both faculty and students, noting that "everybody wants to do very well."

MIT faculty members discuss current presidential campaign

election '88

By Michael Gojer

The lack of issue-oriented discussions in this year's presidential elections may be because "we are asking the candidates to do the impossible... so they're not saying anything," according to Lester C. Thurow, Dean of the Sloan School of Management.

inside

Conductor John Williams earns an ovation at the Boston pops opening Tuesday. Page 9.

While Ceyer is just beginning her service as a tenured faculty member, Menand is coming to the end of a 41-year teaching career, including 21 years at MIT. He said he was "flattered and pleased that students would think I am sufficiently important to be nominated."

Menand came to the Institute in 1967 at the request of President Jerome B. Wiesner to direct MIT's Upward Bound programs and work with urban affairs. He began teaching immediately, offering a course on the politics of urban education. In his second year he taught Introduction to the American Political Process (17.241), and he has offered it every year since.

In the early 1970s Menand received a half-time appointment in the Department of Political Science and taught two classes a year — 17.241 and The Supreme Court and the Constitutional Process (17.245). Menand left the Provost's Office in 1985 and began teaching classes on the President and on national security. He has also taught several undergraduate seminars.

"I love working with students," Menand said. MIT students are "very quick — that makes it very exciting." While few MIT students are "professional social science types," they are still very capable, he said. "My whole interest in education has been with undergraduates."

Menand felt very fortunate "to have had the support of the Provost and the department in pursuing my own agenda." "My

Thurow, speaking Tuesday night at Sigma Chi, said that public opinion polls show that 85 percent of voters want to balance the budget, but a majority is against an increase in taxes, and few can decide which spending areas they would cut.

Moreover, Thurow said, popular confidence does not really reflect the state of the country. Polls show that most people are at ease with the economy, but that people are also a "little nervous" about the trade deficit and the stock market collapse. And neither Bush nor Dukakis have said anything about industrial productivity in their campaigns, Thurow said.

"Reagan has convinced every politician in this country that you have to be optimistic to be elected," Thurow charged.

Professor Robert Solow, who also spoke at the forum, took a somewhat lighter stance on these issues, claiming that optimism has always been sold in American elections, and that there is rarely a discussion of issues in Amer-

(Please turn to page 2)

ARA examines meal plan system

By Sanjay Manandhar

MIT's current meal plan system, which requires residents of some dormitories to purchase mandatory plans, needs to be revised or replaced, according to Kenneth Miller, General Manager of ARA, MIT's food contractor. Miller said the Undergraduate Association and Housing and Food Services were exploring new meal plan options.

"The ideal system is to have no minimum at all," Miller explained. While acknowledging that the present requirements for some houses may not be the best

work in public law in the Provost's Office was related to my professional interest," he noted.

Also, Menand said it was very good to have been associated "with such a first class department."

While Menand felt that many researchers were excellent teachers, he noted that "universities like MIT have never found the way to fold teaching and interacting with students into the promotion and tenure process."

Menand said he has "no regrets" about his 41-year teaching career, but explained that it was time for "a change of pace." He plans to continue his civil liberties union work, become involved in some environmental work, and "read a lot of books" in the coming years.

method, he noted that MIT is more liberal than most schools, for which compulsory meal plans for freshmen or dormitory residents is quite common.

Next year will be the first year in which ARA will attempt a more diversified food service system, Miller said. He explained that students would not have problems using up their meal plans if they could use their Validine cards on a variety of things like takeout, bag lunches, parties, or items from the convenience store that will be installed in the renovated Student Center. Most of these options will be available by the fall of 1989, Miller said, although he was not sure about the use of Validine in the convenience store.

Policy on meal plans is a "difficult issue," Miller said, and will take some planning. Because of other critical problems, like crowding at cafeterias, the meal plan issue could not be given enough attention this year, he said.

An inordinate amount of effort was concentrated on alleviating the crowding in Walker dining hall, Miller said, noting that business was higher in Morss Hall and Pritchett Lounge in Walker, and all the house cafeterias. However, Miller said the new food service at Lobby 13 this term was very encouraging.

Facilities evolving

Improvements to Lobby 13 to make it "a flexible, multi-purpose

space" will be complete before the beginning of next term, according to Associate Director of Housing and Food Services Lawrence E. Maguire. This includes dining, lounge area in the lobby, and food service somewhere outside the lobby.

Miller mentioned the possibility of opening the Faculty Club to students two nights a week, so that they can have "a good meal in a nice setting, at a reasonable price." But this option is only in the planning stage, according to Maguire, and it is more likely that the Faculty Club will be used for small get-togethers like pre-commencement dinners for the students who wish to take their parents there.

The renovated Student Center kitchen facility will be ready in (Please turn to page 15)



Kyle G. Peltonen/The Tech
Kenneth Miller, the new director of ARA.

Institute honors Killian in memorial service

By Michael Gojer

Though MIT's present stature as the "premier science-based university" is due to many separate efforts, former President James R. Killian, Jr., '26, made an especially lasting impact on the Institute, said President Paul E. Gray '54. Speaking yesterday at a memorial service for Killian, who died in January at the age of 83, Gray praised the former Institute president as a teacher, mentor, and sage.

Killian was widely regarded not only for his dedicated contributions to MIT, but also for his concerns and efforts in national science affairs during the past 40 years, and for his vision in helping to establish public television in the United States.

Other speakers testified that Killian was a calm, serene man, whom many revered and looked to for guidance.

A growing Institute

During Killian's presidency, from 1949 to 1959, the Institute expanded its operations threefold. The School of Humanities and Social Science was added, as well as the Sloan School of Management, and the Center for International Studies. Lincoln Laboratory was established, and Baker House was built, the Hayden Library completed, and Kresge Auditorium designed.

Killian put a great emphasis on the educational role of MIT, said Institute Professor Emeritus Victor F. Weisskopf. Because Killian recognized that science and engineering are human endeavors, Weisskopf said, first-rate scholars were appointed in the humanities during Killian's presidency, and humanities were no longer considered merely a service department at MIT.

Killian was very successful in seeking new financial resources for the Institute, remarked hon-

orary chairman of the corporation Howard W. Johnson. He expressed the needs of the Institute "in such compelling ways," Johnson said, "that he melted the heart of many a cheerful giver." Gray said that longtime MIT benefactor Cecil Greene '23 was fond of referring to Killian as "my most expensive friend."

In national affairs, Killian had worked to bridge the gap between science and public policy by serving during the Eisenhower administration, from 1957 to 1959, as the first presidential science advisor. Though not a scientist himself, he understood science issues better than many with more detailed knowledge, Weisskopf said, and helped establish a mechanism for providing the president with scientific advice.

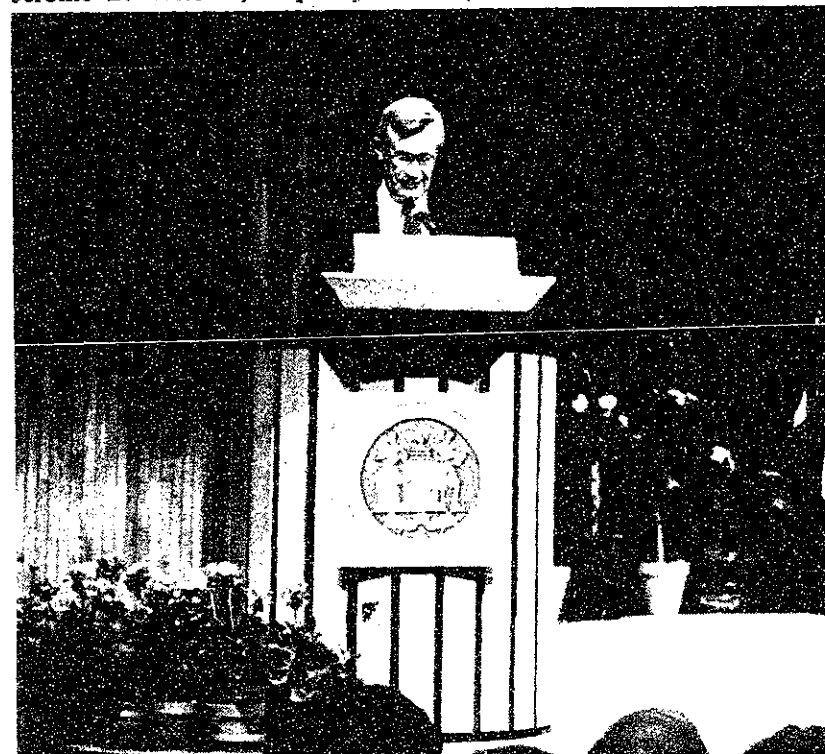
Killian's efforts, in a "sustained burst," said President Emeritus Jerome B. Wiesner, helped pro-

duce a new space program, strengthened the National Science Foundation, and inaugurated official national concern for the arms race.

In the 1960s Killian was instrumental in getting Congress to establish the Corporation for Public Broadcasting, and he later fought hard to defend it against opposition in Washington, said Bill Moyers, a journalist with Public Affairs Television, Inc. Moyers said Killian stood up against compromises that would have left public television forbidden from broadcasting public issues programs.

A revered leader

All acknowledged that Killian was a ready-to-listen leader whom others looked to for advice. Looking back on the turbulent and trying times of the late (Please turn to page 16)



Kyle G. Peltonen/The Tech

David Saxon remembers James Killian Jr. '26 at yesterday's memorial service.

Voters, candidates skirt around election issues

(Continued from page 1)
can presidential politics.

Thurrow said it is not at all clear what the issues in this election are going to turn out to be because the candidates have gotten this far by disguising them. Dukakis's campaign has decided, for example, that it would be a mistake to start talking about issues yet, Solow said.

Asked to predict the factors that will sway voters in November, Thurrow explained that in 1976, following the Watergate scandals, the country wanted a "Sunday school teacher" and elected Jimmy Carter; in 1980, voters wanted someone to say "standing tall," and elected Ronald Reagan. If, in 1988, the theme is "continuity," he said, Bush will be elected; if voters want "competence," then they

will elect Dukakis.

The budget deficit and the election

The decision to act on resolving the budget deficit is a "strategic" one Thurrow said. If the US thinks the rest of the world will continue to lend us \$200 billion a year, then we can keep running the economy like the Reagan administration has, he said. But if they are not ready to lend it, then interest rates will have to rise to make up the difference, crowding out the investment in this country. "That's called a recession," he said.

Thurrow noted that there is no standard prediction for what presidents will do when they inherit a very large deficit from a previous administration, because that has never happened before. But he thinks that Dukakis

would be wary of raising taxes immediately after entering office if he won the presidency, because in 1978 he lost reelection in Massachusetts after he raised taxes to cut the state deficit in 1974.

A Las Vegas gambler, Thurrow said, would probably predict that an incoming president would not do anything about the deficit in January of 1989.

But, according to Solow, a panel of distinguished national economic advisers that has just been created by Congress may be able to take some heat of the next president, in terms of getting action on the budget deficit, Solow said. A president would be much more willing to act on the deficit if he does not have to take the blame for the decision, if he can use an economic council as a cover.

Similarly, the Congress needs protection in the way of presidential support, Thurrow said. Congress would easily pass a 20¢/gallon gasoline tax, he argued, if only they could be assured the president would advocate it.

Solow noted that there was a lot of money to be saved in defense, not just from the infamous cost overruns, but from programs that "aren't actually buying us any national security."

Neglected issues

The single most important issue facing the electorate is productivity, according to Solow. The slowdown in productivity in the last 15-20 years has been responsible, he said, for a gradual worsening of social problems and social tolerance, because of a curb in the redistribution of wealth. But the productivity problem is hard for candidates to tackle, and little has been said about it.

Environmental concerns have also received far too little attention in the election so far, according to Senior Lecturer Louis Menand, III, who was the third speaker at the forum. Although Senator Albert Gore, Jr. had addressed the ozone depletion problem, Menand said, the other candidates are not saying much about the environment, and some president will have to do it.

Menand said he thought that the growing tendency, especially in the present administration, "to be contemptuous of national and international law" was also an extremely important issue, though he doubted that it would actually

control the election. Speaking in terms more general than specific incidents, Menand said that there was a growing sense in government of power without accountability.

An extremely important issue for the Democrats, Menand noted, will be the fate of Jesse Jackson. Whether he is on or off the election ticket, the circumstances of his status will be very important. Jackson must be in agreement with whatever position he ends up with, and he must be supporting the party ticket for the Democrats to win.

Thurrow observed that, even if Jackson is content with his being off the ticket, his followers may not be, and it will be crucial to the Democratic party that Jackson's followers are not alienated. If there are only white males voting in the presidential election, Thurrow said, Bush will certainly be elected.

Iran/contra pardons

There is a technical question as to whether someone can be pardoned before they have been convicted of a crime, Menand said, explaining that the Constitution does not support such a position. But it might still be possible for Reagan to attempt to pardon the government officials that have been implicated in the Iran/contra scandals. In any case, he certainly would not do so until after the November elections, Menand said.

The chances of a trial in those cases starting this summer is very slim, Menand said, and delaying (Please turn to page 16)

1988 Awards Convocation Recipients

The Karl Taylor Compton Awards

(For students who have made outstanding contributions in promoting high standards of achievement and good citizenship)

Seth Brown '88
Alan Davidson '89
Bernard Loyd G

The William L. Stewart, Jr. Awards

(For outstanding contributions to extracurricular life)

Baker House Theatre Group
Mark Kantrowitz '89
Jonathan Katz '90
Yichen Mao '88
Jeff Meredith G
Robert Newman '89
Manuel Rodriguez '89

The Laya W. Wiesner Award

(For an undergraduate woman who has enhanced MIT community life)

Julia Hsieh '89

The Laya and Jerome B. Wiesner Award

(For achievements in the creative arts)

Julio Friedman '88
Kirsten Hoyte '90

The Albert G. Hill Prize

(For minority juniors or seniors who have maintained high academic standards or improved the quality of life for minorities)

Jorge A. Samyoy '88
Willie J. Baldwin '88

The Frederick Gardiner Fassel, Jr. Award

(For a member of the Interfraternity Conference for spirit and dedication)

Steven P. Margossian '88

The James R. Killian, Jr. Community Service Award

(For a fraternity with an outstanding community service program)

Delta Tau Delta

The Kenneth R. Wadleigh Award

(For an independent living group for promoting faculty/student interaction)

Lambda Chi Alpha

The IFC Alumni Relations Award

Delta Tau Delta

The Irwin Sizer Award

(For innovations in MIT education)
The Technology and Policy Program

The Association of MIT Alumnae Awards

(For senior women for academic excellence)

Barri Gold '88
Marcia B. France '88

The Goodwin Medal

(For a graduate student for conspicuously effective teaching)

Carol B. Conaway G

The Louis Sudler Prize in the Arts

(For a graduating senior)

Ellen Lin '88

Graduate Student Council Awards for Teaching

(Presented separately in each department)

Herbert Einstein

Civil Engineering

Rohan Abeyaratne

Mechanical Engineering

Donald R. Sadoway

Materials Science and Engineering

Edward Robbins

Architecture

Frederick Greene, Bob Silby

Chemistry

Frank Solomon

Biology

Robert Jaffee

Physics

David Gifford

Electrical Engineering and Computer Science

The Edward L. Horton Fellowship

(For fostering fellowship among graduate students)

European Club

The Everett Moore Baker Memorial Award

For Excellence in Undergraduate Teaching

Louis Menand, III

Political Science

Sylvia Ceyer

Chemistry

The Gordon Y. Billard Awards

(For outstanding merit performed for the Institute)

Kathleen M. Barrett

Conor Moran

The James N. Murphy Awards

(For a spirited employee who has won the hearts of students)

Lydia Wereminski

Franklin Payne

The Class of 1948 Award

(For the male senior athlete of the year)

Peter J. Gasparini '88

The Betsy Schumacker Award

(For an undergraduate woman athlete)

Yvonne M. Grierson '90

The Admiral Edward L. Cochrane Award

(For a male senior athlete for humility and leadership)

G. Sean Garrett '88

The Pewter Bowl Award

(For a female athlete for inspiration and leadership)

Julie A. Brown '88

The Malcolm G. Kispert Awards

(For the male and female senior scholar-athletes of the year)

Dianne E. Di Massa '88

Roderick T. Hunman '88

The Harold J. Pettergrove Award

(For outstanding service to intramural athletics)

Edward H. Kim '89

The Massachusetts Beta Chapter of Tau Beta Pi

Welcomes Its Newly Initiated Student Members:

Shiva Ayyadurai
Kenneth Bennett
Andrew Brabson
Shiao-Ming Chu
Michael Groleau
Vijay Gupta
Waldemar Horwat
Kuen J. Hsia

Shirish Lal
Mark Malonson
Erik Ordentlich
Parag Patil
Kevin Rhoads
Andrew Singer
Anuradha Vedantham
Gregory Wornell

Proudly Recognizes Its Newly Initiated Faculty Member, Elected for Special Attainments in Engineering Scholarship and Education:

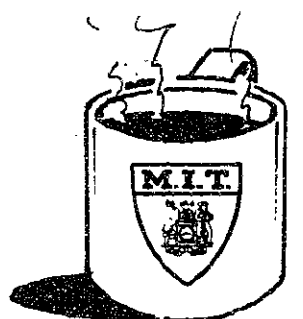
Gerald Wilson, Dean of the School of Engineering

...And Congratulates the Winners of Chapter Scholarships in Engineering Awareness:

Honor Jones '90

Gaurav Rewari '91

FREE!
M.I.T.
Mug!



**ONE MUG PER BOOKING
WHILE SUPPLIES LAST**

**When you pick up your tickets at
CRIMSON! Free Airline Reservations
& Ticketing Service**

CRIMSON TRAVEL

39 John F. Kennedy St. (Harvard Sq.)

**CRIMSON is an official authorized agent for
all airlines and there is NO EXTRA CHARGE
when you pick up your tickets at CRIMSON!**

**IF YOU'RE TRAVELLING ON ANY
OF THESE AIRLINES. . . American,
Eastern, United, Pan Am, Delta,
TWA, Northwest, USAir, Piedmont,
El Al, British Air, Qantas, Air
Canada, Iberia, Lufthansa, Swiss
Air, Air India, Icelandair, Alitalia,
Aer Lingus, Viasa, or even shuttle
flights.**

**AVOID LONG LINES AT THE AIR-
PORT, PICKUP YOUR TICKETS AT**

CRIMSON TRAVEL

OPEN MON.-FRI. 9:30 AM - 7:30 PM, SAT. 9:00 AM - 5:30 PM
SUNDAY, NOON TO 6:00 PM

868-2600

news roundup

from the associated press wire

World

France accused of hostage deal

The government of France is facing skepticism and anger following the release of three French hostages in Lebanon. France is denying any ransom had been paid. But other governments, notably Britain, are accusing France of dealing with terrorists while they hold 18 other foreigners kidnapped in Lebanon. The freed hostages, two diplomats and a journalist, arrived in Paris yesterday.

One of the freed hostages said his cellmate was Associated Press correspondent Terry Anderson, the longest-held of the remaining hostages. Anderson's sister, Peggy Say, said she was encouraged by the latest releases, and plans to contact the former hostages to find out how her brother is.

Poland claims it broke mill strike

The Polish government is claiming its troops have crushed a ten-day-old strike at a steel mill in Nowa Huta. But workers who emerged from Nowa Huta yesterday afternoon said some people inside the plant have resumed striking. Meanwhile, in the port city of Gdansk, thousands of police continue to surround the Lenin shipyard in a tense standoff with strikers.

Jewish settlers kill Arab

A Palestinian shepherd was shot to death during a confrontation with Jewish settlers yesterday in the occupied West Bank. According to Israel Radio, a Jewish settler opened fire after several Arab shepherds began hurling stones. A reporter for an East Jerusalem newspaper said the settlers were trying to drive the Arabs out of fields near a Jewish settlement.

White House says Nicaragua undermines peace process

The Reagan Administration is accusing Nicaragua of trying to undermine the peace process involving the contras and of trying to intimidate its political opposition. White House spokesman Marlin Fitzwater was commenting yesterday on reports from Managua that police have detained opposition leaders and ordered three radio stations off the air temporarily.

Nation

Alien amnesty program ends

The amnesty program for illegal aliens fell short of the two million applicants the government predicted would sign up. But the Immigration and Naturalization Service is still patting itself on the back. The agency's chief said more than 1.6 million aliens applied for amnesty before the program ended at midnight Thursday. He said an 85 percent batting average is pretty good.

Presser takes leave of absence

The embattled president of the Teamsters Union, Jackie Presser, is taking a leave of absence from his job. Presser has been indicted on racketeering charges. The union's chief attorney said Presser has advised the Teamsters' executive board that he will be "temporarily unavailable for the next 120 days" because of his health. The federal government has been considering a civil suit to take control of the Teamsters.

California court overturns abortion payment cutoff

The California Supreme Court yesterday refused to allow the state legislature to cut state medical payments for abortions for most poor women. It is the tenth straight year state courts have overturned the Legislature's budget restrictions on abortion. Anti-abortion groups had hoped the new conservative-dominated court would uphold the cuts.

Dukakis accuses Bush of being silent too often

Democratic presidential candidate Michael S. Dukakis took another swipe at the likely GOP nominee yesterday. While campaigning in West Virginia, Dukakis said he would like to have a vice president who speaks up and speaks out. On Wednesday, Bush told reporters he holds back from speaking in Cabinet meetings in order to prevent news leaks and dissension.

LA fire injures 40

Los Angeles officials are investigating the cause of a fire that raged through five floors of a 62-story skyscraper yesterday. One man died in the blaze after being trapped in an elevator, and at least 40 were injured. One firefighter compared the scene to "Dante's Inferno."

NASA endangered, Fletcher warns

NASA chief James Fletcher said the country's civilian space program is facing extinction. Congress has threatened to slash funds for a proposed space station. Fletcher said yesterday "it's curtains" for the program if Congress does not appropriate close to the \$900 million requested by NASA.

Refinery fire under control

The fire is now under control but was still burning last night at a Shell Oil refinery in Norco, LA. The spectacular explosion and fire early yesterday morning forced the evacuation of 2500 residents from nearby houses. Authorities said at least one person is dead, six are missing, and 42 are injured.

Weather

Cool times ahead

A low pressure center will move out to sea well south of New England late today as a weak cold front approaches from the north. These two features will contribute to damp, cool weather in eastern New England today and for a portion of tomorrow. Locations south and east of the area have the greatest change of rain/rain showers as those sections will be closest to the low. By Saturday afternoon clearing should commence as high pressure builds into the area but a persistent wind with an easterly component will keep coastal areas cool.

Today: Mostly cloudy with showers likely — especially during the afternoon. Winds east 5-10 mph. High 55° F (13° C).

Tonight: Cloudy with rain and rain showers. Low 45° F (7° C).

Saturday: Mostly cloudy with showers ending from west to east early, then slow clearing. Winds north-northeast 10-15 mph. High 50-55° F (10-13° C). Low around 45° F (7° C).

Sunday: Partly cloudy and milder. High 53-58° F (12-14° C) — warm inland. Low 45° F (7° C).

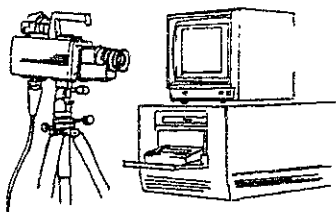
Forecast by Michael C. Morgan

Compiled by Niraj S. Desai

HIGH SPEED VIDEO SERVICE

1000 Pictures Per Second

KODAK EKTAPRO 1000



Instant Data Analysis for Solving High Speed Motion Problems

- 16mm Film & Processing
- 16mm H.S. Movie Cameras
- Rentals

TECH PHOTO SERVICES, INC.
Cambridge, Mass. (617) 497-5450

M.T. DRAMASHOP

Kresge Little Theater

April 28, 29 and 30

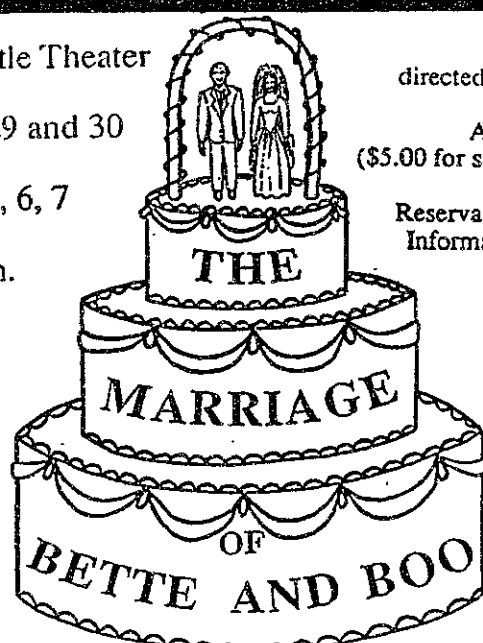
and May 5, 6, 7

at 8:00 p.m.

directed by Scott Zigler

Admission \$6.00
(\$5.00 for students/seniors)

Reservations: 253-4720
Information: 253-2877



BY CHRISTOPHER DURANG



Learn Japanese, Spanish, French, German, Italian and many other languages.

Call today for a FREE TRIAL LESSON and NEED EVALUATION.



ACADEMIA
LANGUAGE CENTER
617 554-6110

Established in 1962

THE KAPLAN CURRICULUM FOR CAREER CLIMBERS:

LSAT, GMAT, MCAT,
GRE, DAT,
Advanced Medical
Boards, TOEFL,
Nursing Boards,
NTE, CPA, Intro. to
Law, Speed
Reading,
AND MORE.

For nearly 50 years, Stanley H. Kaplan has prepared over 1 million students for admission and licensing tests. So before you take a test, prepare with the best. Kaplan. A good score may help change your life.

KAPLAN
STANLEY H. KAPLAN EDUCATIONAL CENTER LTD.

Summer classes forming now for fall exams.
Enroll early, transfer free to over 120 centers nationwide.

Boston	266-TEST
Newton	964-TEST
Cambridge	868-TEST

opinion

Column/Thomas T. Huang

Minorities reflect on racism at MIT

In the Classroom

Florence Rolston '88: The major issue that black undergraduates face at MIT is the need for academic support — study groups, black faculty and graduate teaching assistants, and practice tests. This is the only way we can retain black students at MIT.

Edward Page '89: I took physics and calculus as a freshman. When I first went to those classes, I looked around, and I only saw two other black faces. That's about 3 blacks out of 300 students. Later on, I found out that a lot of the white students were getting together to work on problem sets, that they had solutions from last year's problem sets. I had never been told about this. Black students get very little academic support.

Fred Foreman G: In terms of survival, the only way to get through MIT is to work in teams. It's hard for blacks, because there are so few of them, and white students won't work with them. Some blacks try to tackle MIT by themselves, and they are the ones who end up dropping out.

Lack of Understanding

Page: The black student is put into two categories: he's either a typical black idiot, or he's a freak genius. Either way, he gets patronized. The black student gets treated differently.

You have a burden as a black student not to make a mistake in class, because then they'll look at you and say, "Oh, it's one of them." You have to be careful and not do anything stupid. I can't look at somebody's personal computer and say, "He's got two disk-drives," without worrying that someone's going to think I'll steal it.

Foreman: Some people say, "We need to get blacks with higher SAT scores." But they choose to ignore the issue that the blacks might not be exposed to the kind of preparation white kids get which is geared toward the College Boards. They should focus on the initiative of the incoming

black students. They should focus on making the environment welcome the incoming black students.

When I was a freshman back in 1971, there were very few upperclassmen in mechanical engineering to talk to for help. I hooked up with Professor James Williams, and from him I found out how things worked in the department. Williams was an inspiration to me, and that's why I say role-models are so important for students. Blacks are hesitant to ask white professors questions, because they're afraid they will look dumb and support the racial stereotype.

I had a special relationship with Williams. We did a lot of sports together. Once, we had a speed-walking contest down the Infinite Corridor. You don't get this kind of interaction, this kind of play, without role-models. A role-model is someone you respect, someone whom you want to make respect you.

Racism in the '80s:
Covert or Overt?

Page: Racism in the 1980s is a lot more covert, unlike the racism in the 1960s, which was overt. That makes things a lot more unclear. It makes racism a lot harder to fight. If some incident occurs, you often wonder: "Was that racist?"

Joel Gwynn '89: I can remember three distinct times that I was stopped by students and asked for ID. It's getting to be that, whenever I visit a dormitory that I don't live in, I expect to be stopped.

Rolston: It was the first week of classes, right after Residence/Orientation week. I was living in McCormick Hall, with two women: one white, the other Chinese. Once, when we were returning to the dorm, the desk worker stopped me and asked me if I lived there. She didn't stop my roommates. I said, "Yes, I live here. Do you want to see my ID?" And then the deskworker looked at my friends and asked them: "Does she live with you?"

Foreman: When I was an undergraduate, all black students

were aware of "Black Power" and "Black is Beautiful." Today's black undergraduates are just not aware of racism. They will rationalize. They will say, "Well, the professor just doesn't like me as a person." Somehow, the younger kids have been pre-programmed not to see the racism. They've had their antennae lowered.

In a black students' discussion, some young guys were saying that they had never come across racism in their lives. How can you be black and say that? Don't they watch the news? Some of them are even from the inner-city, but they don't see it as a result of racism.

Norman Fortenberry G: The racial anecdotes in the Racial Climate report [released by the Dean's Office in October 1986] become irrelevant when the administration ignores the questions: What is the institutional response? What are the administration and the academic departments doing in response to this climate? How adequate is the recruitment and retention of black students? Why aren't there more minority faculty? What do you do about racist faculty members?

There are some things the administration can do. The administration can't control the way you think, but it can control the way you act. The administration can increase minority recruitment, increase financial aid to minority students, and try to make people more aware of racism on campus.

The most important thing is numbers. If we had more blacks on campus, allowing for more day-to-day contacts — contacts at random, and not clinically scheduled — between blacks and whites, then maybe we could break down the walls.

Thomas T. Huang, a graduate student in the Department of Electrical Engineering and Computer Science, is executive editor of The Tech.

"System" responsible for suicide

To the Editor:

Our son, Mark Kordos, died on April 8th at MIT. He was the victim of an attempted suicide that ended up a fatal mistake. But the responsibility for Mark's death was not his alone; it must be shared by society, the "system," and by MIT.

When Mark died, he was a junior in Electrical Engineering and Computer Science, and he was 18 years old. When he came to MIT three years ago, he typified, in every respect, the finest qualities of our American youth — religious, a fine citizen, healthy in mind and body, the product of a loving and sharing family, gentle, friendly, helpful, courteous, compassionate, witty, and very nice-looking — truly the all-American boy. He was a tireless worker and truly exemplified the work ethic that built our country.

Mark had a brilliant mind and an outstanding academic record. But he valued his play and leisure time as much as he dedicated himself to meeting the responsibilities of his "gifts." He loved music, sang, played piano and guitar, and appeared on stage every chance he could. As many have remembered him in recent days, he was truly "a gentleman and a scholar." He was the best our country could produce, and he was a part of the future hope of our country.



feedback

Admissions Office has not lowered standards

To the Editor:

In a recent article and in several letters, questions have been raised about the performance of students in the core courses and about changes in standards for admissions. Many appear to believe that there has been a conscious "lowering of standards" in order to admit more well-rounded students and to make MIT just another liberal arts university.

We are attempting to make changes but lowering of standards is not one of them. Our goal has been to reduce the overcrowding in Course 6 while increasing enrollment in the smaller schools and in underenrolled departments. Another goal has been to attract as applicants more students who combine strong backgrounds in math and science with comparable ability and genuine interest in humanities, arts, and social science.

We believe we have succeeded in some measure in doing that.

There are many fewer students in the last two entering classes who have the intention of concentrating in Course 6. All three smaller schools have seen a significant increase in student interest, and I have heard nothing but praise for the students' preparation for and genuine interest in these areas.

Does this shift in interest imply a lowering of standards? We believe not. We have worked to achieve our aims by expanding the applicant pool not by lowering standards. We have tried to present MIT to the public as a science based research university with a broad array of majors and a wide choice of extracurricular activities. Applications have increased from 5748 in 1985 to 7433 in 1988 in response to that message.

One change which has given some the impression that standards have been lowered was the removal several years ago of the requirement that all applicants have a high school physics course. The record of the faculty

(Please turn to page 13)

tion that hires these teachers and puts them in charge of students.

Group projects were another factor in Mark's undoing. It is hard to believe that the teaching staff at any university can be so ignorant of the fact that the most conscientious person in any group always ends up doing most of the work. What a curse! Mark complained of this every semester, and never more so than this semester. When one member of a group strives to do only the best work possible while other members are satisfied with mediocrity, stress multiplies on the conscientious one. Mark sought ways to improve this imbalance — even considering his "drop" option. But, in the end, Mark was no quitter; he couldn't do that to his partners. Although group projects might be easier to administer and grade, they are seldom fair to all the students involved. But who ever said that society, or the "system", or MIT was fair.

Beyond the mind bending-and-breaking stress so common at MIT, even the simplest human needs are found wanting. All dormitory undergraduate residents must be on a meal plan — and yet dormitory dining rooms are not open on weekends and the Student Center dining room is closed for renovations. Not only does the MIT administration allow a stress-laden, demanding

(Please turn to page 5)

TheTech

Volume 108, Number 24

Friday, May 6, 1988

Chairman Peter E. Dunn G
Editor in Chief Andrew L. Fish '89
Business Manager Mark Kantrowitz '89
Executive Editor Thomas T. Huang G

News Editors Darrel Tarasewicz '89
Niraj S. Desai '90
Michael Gojer '90
Night Editors Ezra Peisach '89
Marie E. V. Coppola '90
Opinion Editor Michael J. Garrison '88
Arts Editors Jonathan Richmond G
Christopher J. Andrews '88
Photography Editors Kyle G. Peltonen '89
Mark D. Virtue '90
Contributing Editors V. Michael Bove G
Akbar A. Merchant '89
Senior Editors Mathews M. Cherian '88
Ben Z. Stanger '88
David M. Watson '88

PRODUCTION STAFF FOR THIS ISSUE

Night Editor: Marie E. V. Coppola '90
Staff: Andrew L. Fish '89, Mark Kantrowitz '89, Kyle Peltonen '89, Niraj S. Desai '90, Lisette W. M. Lambregts '90, Carmen-Anita C. Signes '90.

The Tech (ISSN 0148-9607) is published Tuesdays and Fridays during the academic year (except during MIT vacations), Wednesdays during January, and monthly during the summer for \$17.00 per year Third Class by The Tech, 84 Massachusetts Ave. Room W20-483, Cambridge, MA 02139-0901. 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 02139-0901. Telephone: (617) 253-1541. Advertising, subscription, and typesetting rates available. Entire contents © 1988 The Tech. The Tech is a member of the Associated Press. Printed by Charles River Publishing, Inc.

opinion

feedback

Tragedy of Vietnam remembered

To the Editor:

The 30th of April marked the 13th anniversary of the fall of South Vietnam. For myself, a Vietnamese refugee who fled Vietnam after living under the communist regime for a number of years, this day has a very special meaning. It's a time for remembrance and mourning, a time to share some of my personal experience, and a time to assess the situation in Vietnam today.

Most recently we have heard about the continuing saga of the boat people, whose desperate plight started as early as April, 1975, when the communist force took over Saigon. Presently the UN High Commission on Refugees estimates that of roughly 1.5 million boat people who escaped from Vietnam, at least half perished on the high seas or of piracy in the Gulf of Thailand.

Since the end of 1987, Thailand has again been inundated with an increase in Vietnamese refugees. As the number of Southeast Asian refugees in Thailand exceeds 300,000, Thailand has resumed a policy of "closed borders," blocking all efforts of the refugees to land, dragging boats back to the sea. According to the latest report by the UN Committee for Refugees, Thailand had warned that any of its citizens giving assistance to the refugees will be prosecuted.

The newest arrivals have been characterized by Thai officials and newspapers as "economic migrants," despite preliminary interviews by the Committee for Refugees which revealed that perhaps as many as 67 percent have been in re-education camps themselves or had family members in re-education camps. Others report intolerable political and social conditions in Vietnam leading to their flight.

MIT needs diversity to create intelligent engineers for nation

To the Editor:

Excerpt from the movie "The Breakfast Club":

"So I can't make a lamp, that makes me an idiot?"

"No, you're a genius 'cause you can't make a lamp." (sarcasm)

Reading into the excerpt (which would probably mean you would have had to have taken a worthless literature course in your life), one discovers that the first boy, who was a "nerd" in the movie, was saying that not being able to do a simple task that any regular person could do (like taking humanities courses) does not make him an idiot.

The first boy's view seems to parallel the tone of David Goldstone's letter ["MIT has inferiority complex," May 3]. Goldstone seems to think that because nerds can't be well-rounded, this doesn't make them idiots. I think he has an inferiority complex. I think he is unconsciously afraid of the well-rounded people who seem to be taking over this school.

Yes, Goldstone's kind probably was in mind when William Barton Rogers founded the Massachusetts Institute of Technology on April 10, 1861. But as anyone might see, even the people who probably didn't get in to Columbia or Dartmouth in the first place, 1861 was a few years ago (I think it was 237 years ago, I'm

In her 4800 years of history, Vietnam was invaded and dominated by China several times, all adding up to more than 1000 years; Vietnam was colonized by the French for 100 years. Vietnam also endured several natural disasters and famines. Yet no Vietnamese ever fled their homeland. Why are these people now trying desperately to leave the country?

The cause of the on-going mass exodus, I believe, lies in the very fact that the current regime has systematically implemented inhumane policies on its own people. I believe that there can be no true solution to the boat people tragedy without an understanding of the current conditions in Vietnam.

In 1985, the Vietnam Committee for Human Rights, a Paris-based watchdog organization, brought a complaint against Vietnam in front of the United Nations, charging that Hanoi still imprisons more than 500,000 political prisoners in violation of Article IV, section 11 of the 1973 Paris Peace Accord. Hanoi has disputed this figure, and earlier this year announced the release of 6000 political prisoners, which it said brought down its population of political prisoners to 5000.

The number given by Hanoi contradicts its own figure released last year, which put the number of remaining political prisoners at 900. The US Department of State has estimated that there are at least 90,000 political detainees who are currently held without due process, without formal charges, and without the promise of a fair trial.

While the majority of detainees are former officials and soldiers of South Vietnam, there are also an estimated 3000 Buddhist monks, 200 Catholic priests and

nuns, and more than 500 other religious leaders in prison. A substantial number of writers, journalists, and even opposition leaders who protested against the Saigon regime before 1975 have been imprisoned.

Human rights groups have reported that Vietnamese religious leaders have been subjected to house arrests or refused permissions to carry out their activities. The practice of self-immolation, once practiced by Buddhist monks to protest against the South Vietnamese government in the 1960s, has resurfaced as a desperate attempt by these monks to protest the crackdown on religion. The number of known cases of self-immolation since 1975 exceeds the number of cases reported at the height of the Buddhist protest movement in the 1960s.

Vietnamese citizens are subjected to arbitrary arrests and detentions for any suspect political activities. The 1985 Criminal Code specifically exempts political activities from its coverage. Even aside from political activities, the legal rights of the citizens are not protected. Ho Chi Minh City, with a population of over four million, has 21 lawyers, according to the latest reports.

The 1973 Paris Peace Accord specifically forbids retroactive punishments for people associated with the South Vietnam regime. In violation of this principle, Vietnam currently conditions education, housing and jobs upon a proper "family status." In education, the authorities divide the candidates into seven categories based on their social and family origins, including any association with the former regime. The passing mark for each group is set so that children of disfavored groups would find it near-impossible to be admitted into universities or technical high schools.

People released from re-education camps face a Catch-22 situation: they will not be allowed to register for a permanent residence until they get a job, yet they cannot get a job until they have permanent residence. This is effectuated through a system of surveillance and reports called *ho khai* (family registration certificates).

Instead of rebuilding the economy and unifying the war-torn country, the new regime has embarked on a war of hegemony in Cambodia and a genocidal campaign against its own citizens through a cleverly disguised prison system known as "re-education" camps. Since 1975, more than a million Vietnamese have died on the sea or in re-education camps due to actions of the government.

Before 1975, people in the West strongly protested US involvement in Vietnam and staged massive rallies for peace in Vietnam. Today, I doubt very strongly that 62 million Vietnamese are ever entitled to a happy and peaceful life. In reality, they are struggling for survival and basic human rights which we in the West take for granted. These words are my cry for help, to those who have always wanted to see a peaceful world, to those who wanted to see peace in Vietnam.

Anh Viet Ho '86

John Martin '89



MIT environment shares responsibility for suicide

(Continued from page 4)

curriculum to build on the minds of the students, it chooses to ignore even the simplest need of the body, accessible balanced meals every day.

Shame! On weekends, it doesn't even offer the sad "pasta or wilted salad again" it serves up Monday through Friday. And don't tell me that it's in the students' best interest to force them to go off campus on weekends in search of food. That's a cop-out! We know this added to Mark's bodily distress — he spoke of it frequently.

Another issue is the abysmal state of the dormitory telephone system, which is a disgrace to the MIT administration/bureaucracy that has allowed it to continue so very long. When we brought Mark to the MIT campus three years ago, we were told in the parents' information session to remember to keep in close touch with out children. And we did! But never once could Mark make a long-distance phone call from his room. Never once, and certainly not on April 8th, could he simply reach for his phone to dial Mom and Dad and say, "Help, please help me."

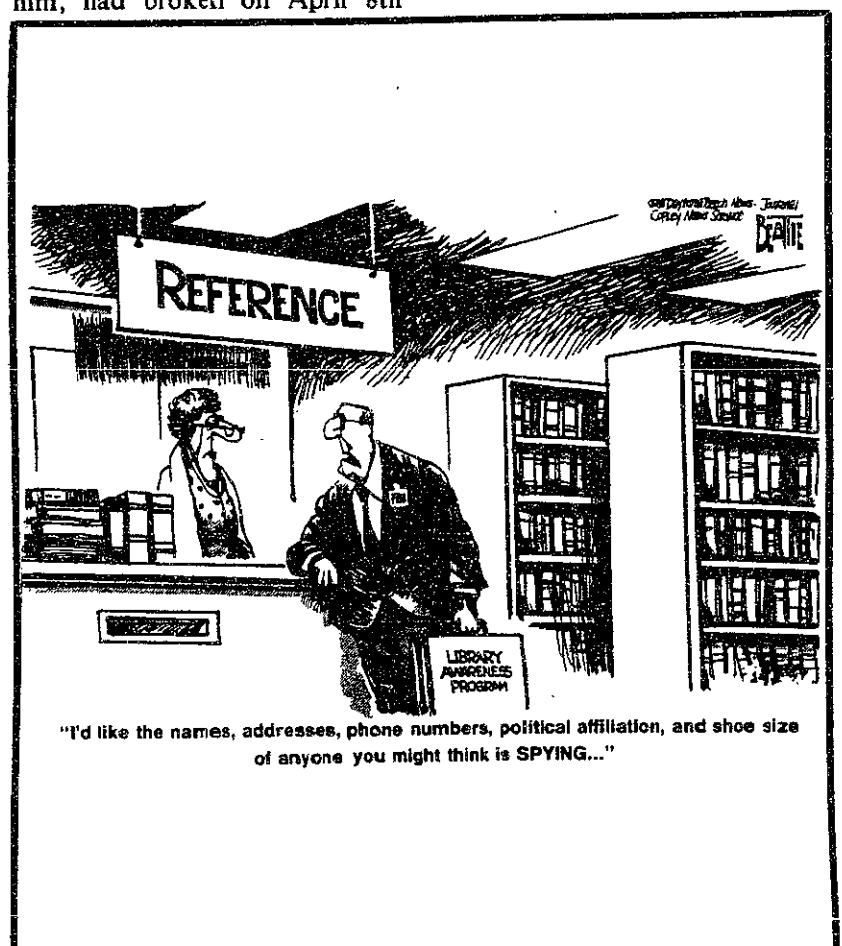
Mark, in his perfectionism, in his conscientiousness, and in his perceptions of what society, the "system," and MIT expected of him, had broken on April 8th

after perhaps days without sleep, and he couldn't even call those he loved most for help. So, he died alone! How the most technically-advanced university in the world ever allowed itself to give only the most spartan, inefficient, and out-moded communications system to its prized resident students is to the eternal disgrace of MIT.

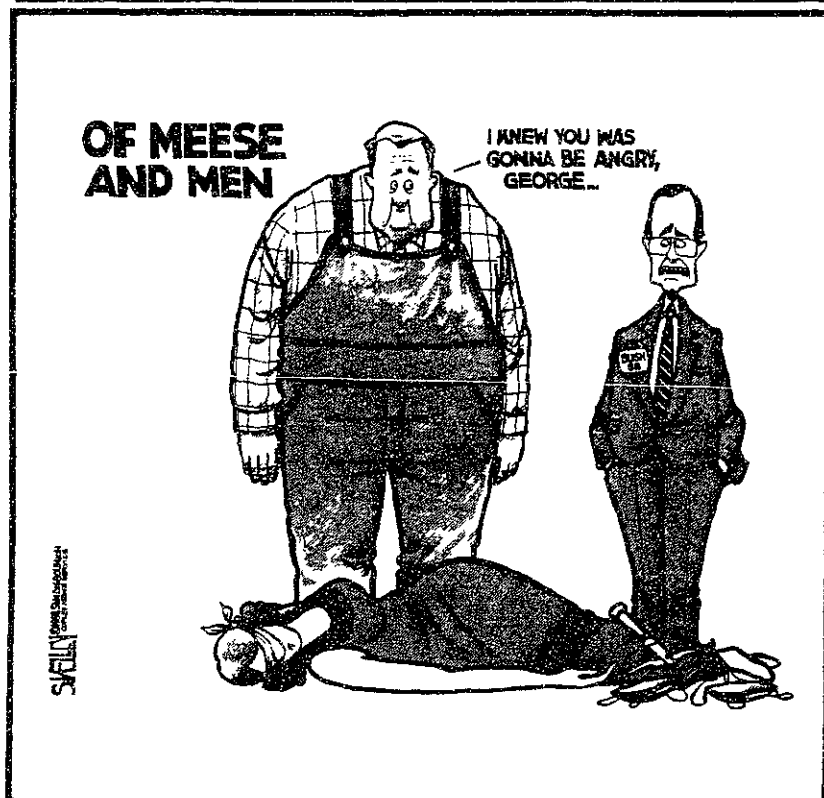
Finally, we wonder if it ever occurred to the MIT administration that the caliber of students it attracts and admits to its "hallowed halls" might find it more difficult than other students to seek the type of "help" that MIT may offer — that they may need an "outreach" approach (perhaps at the dormitory level) rather than the Institute's "it's available" attitude.

In its quest to remain the premier institute in training and graduating the best-prepared and most-promising engineers and scientists in the world, MIT has become de-humanized. And by disregarding the limitations of the human mind and body, MIT has truly become a second-rate university. MIT, the "system", and society took our son, our shining young man, and victimized him. What a price to pay to maintain your world-class standing! How many more will follow Mark?

Ronald and Betty Kordos



opinion



Soviet dissidents need United States support

To the Editor:

I recently read information about Hanna Mykhaylenko gathered by Amnesty International. Since 1980, when she was charged with "anti-Soviet agitation and propaganda," Hanna has been imprisoned in various mental hospitals and has repeatedly been subjected to large doses of powerful neuroleptic drugs. Although it is technically illegal for a sane Soviet citizen to be imprisoned in a mental hospital, they are often used to confine political prisoners.

Vladimir Bukovsky, another dissident who served time in mental hospitals, wrote a horrifying account of his experience in his book *To Build a Castle*. He tells how sane people unjustly imprisoned have resorted to suicide rather than risk their sanity which is threatened by the powerful drugs. He writes that some of the doctors at his hospital referred to it as "our little Auschwitz."

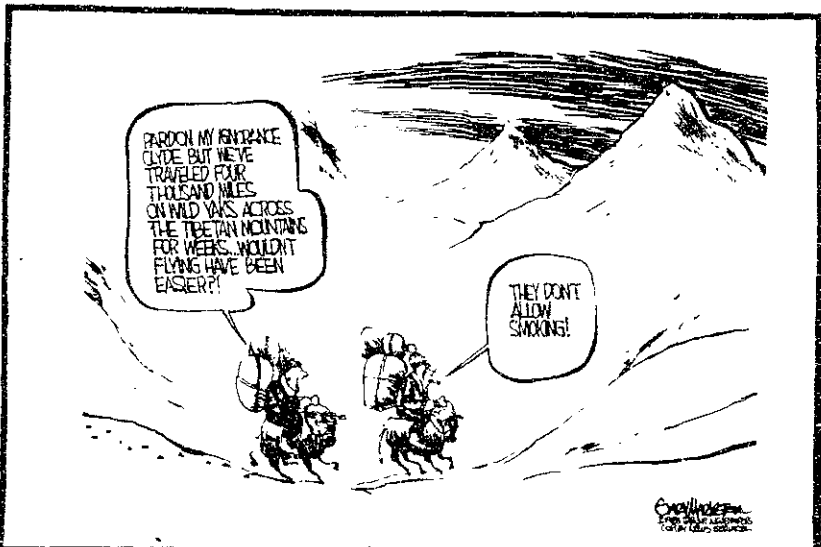
Hanna's only crime was being a human rights activist, promoting the right of Ukrainians to speak their own language and to study their own art and culture. When she was arrested at her home, police found and confiscated a copy of the Universal

Declaration of Human Rights, which the Soviet Union signed but never honored. Although it includes assertions of such rights as that of every citizen to leave his country and to take part in peaceful protests, these rights are nonexistent in the Soviet Union.

Hanna is 58 years old and is known to be in extremely poor health. She has had surgery for breast cancer and has asthma and a heart condition. The length and appalling conditions of her sentence threaten her life. There are things that you can do to help Hanna, including writing to General Secretary Mikhail Gorbachev calling for her release.

Many former prisoners have said that letter-writing campaigns have improved their situations and in some cases even led to their releases. Alternately, you can let your politicians know that you are concerned about human rights violations in the Soviet Union and in the rest of the world. I also urge anybody who is concerned with the state of human rights in the Soviet Union to begin following the news of the dissidents' struggles and to read the books so carefully written, so painfully smuggled out, and so overwhelmingly ignored in the West.

Ellen Spertus '90



MIT tries to improve engineering

To the Editor:

I am writing in response to the letter written by David Goldstone '89 ("MIT has inferiority complex," May 3). I would like to present a few facts which I believe David has overlooked, and would like to ask David some questions.

When William Barton Rogers founded this institution, he envisioned that the purpose of MIT should be "... to furnish a general education, founded upon the Mathematical, Physical, and Natural Sciences, as shall form a fitting preparation for any of the departments of active life" (1865). He also described an MIT which would "expand into a great institution comprehending the whole field of physical science and arts with the auxiliary branches of mathematics and modern languages ..." (1846). Engineering was not a common word back then, but had it been I am sure that Rogers would have incorporated it into his audacious vision. The MIT described here seems more suited to the well-rounded student than it does to the engineer. As times change, so

must MIT to keep in line with its original purposes.

We must, therefore, ask ourselves what our ultimate goal is or should be as an engineer. David, do you seek money? Engineers' salaries tend to level out after a few years. Maybe you should consider studying law. David, do you seek power? Engineers seem restricted to positions of little authority. Maybe you should consider studying business.

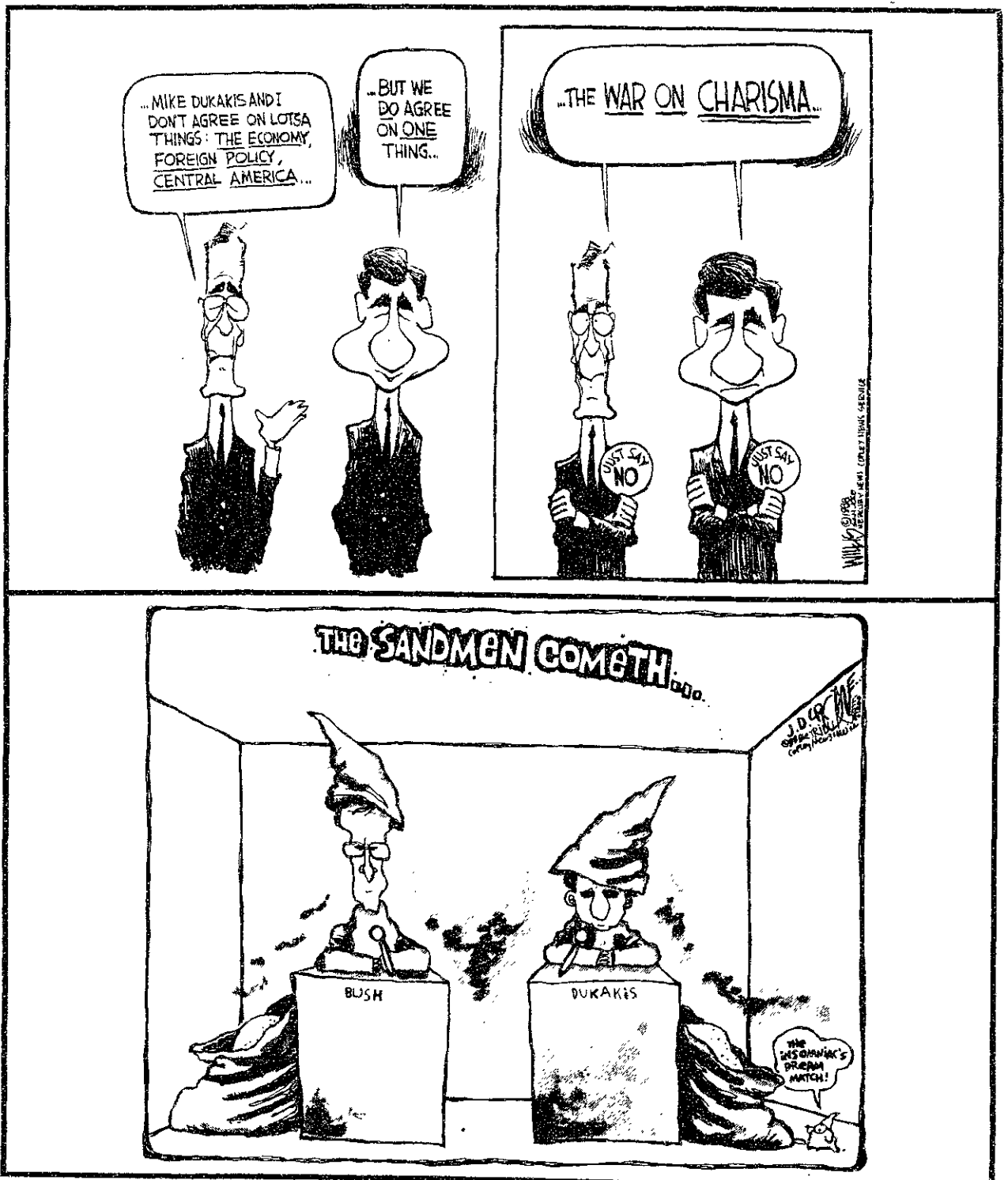
At the very least, consider these facts: There are more lawyers than engineers in the United States. Less than four percent of our congressmen and senators have engineering backgrounds, yet forty percent of the budgetary decisions they make deal directly with technology. Only one engineer, Jimmy Carter, has ever been president of the United States. The percentage of US patents filed by US citizens has dropped from 92 percent in 1976 to 58 percent in 1985. Engineering in one of the least respected, albeit least understood, professions in the United States. In fact, most kids still think that all

engineers drive trains.

I believe that this is an indication that something is wrong with our present system, and I believe that MIT should try to do something about it. Did you ever wonder why there are no Nobel Prizes for engineering? The future of our country depends largely on engineering and technology, yet engineering is taken far too lightly by this country. As engineers, we have a responsibility in determining this future.

If admitting more well-rounded students to MIT can do something to affect positive change in the purpose and perception of engineering, then I applaud the decision. I believe that MIT needs to admit more well-rounded students so that MIT can graduate more well-rounded engineers, engineers who have an audacious vision for the future. Maybe you should take your own advice, David: do not step too quickly before you are sure where you are going. MIT has looked into the future, and MIT knows where it is going. Sorry, David, I think it makes perfect sense.

Erik J. Heels '89



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 editor.

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.

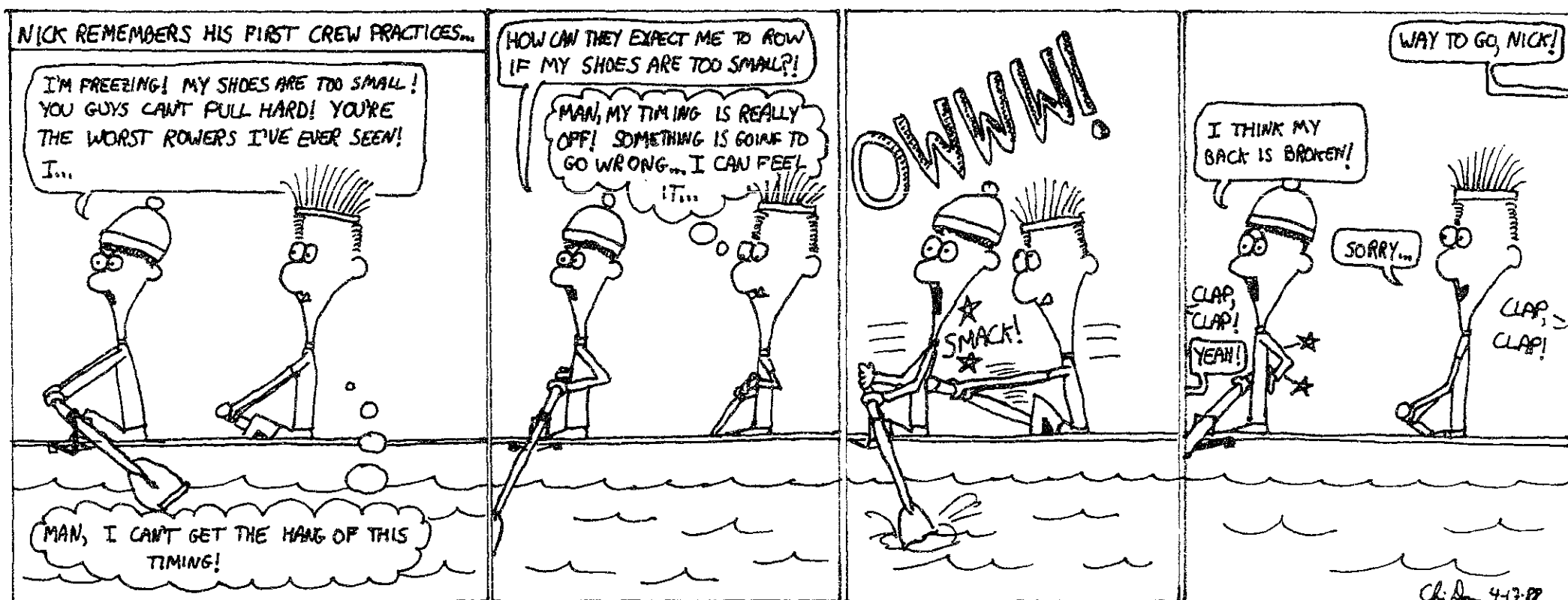
Letters to the Editor are welcome. They must be typed double spaced and addressed to **The Tech**, PO Box 211, MIT Branch, Cambridge MA 02131, or by interdepartmental mail to Room W20-483.

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. Shorter letters will be given higher priority. We regret we cannot publish all of the letters we receive.

comics

Nick

By Chris Doerr

classified
advertising

Charming Victorian Penthouse apartment. Rent \$750/month. Boston. Near Back Bay T-stop. Easy commute to Cambridge. Large one bedroom. Beautiful new woodwork, appliances and more. Roof deck. Small pets okay. Call 338-4537.

Earn \$5-10/hr. as a College Pro Painter. The best summer job under the sun! In over 100 New England towns. Call 391-7366 soon.

Eastern Airlines — One-way ticket, Boston to LA, May 26 for \$100. One-way ticket, LA to Boston, May 30 for \$100. Combine the two for \$150. Call Mark at (213) 558-0716 or (212) 308-5545. Negotiable.

Make \$\$\$ THE OLD-FASHIONED WAY, sell something!! Your textbooks could earn you up to 50% of their current price in CASH at the B. U. Bookstore, Kenmore Square. (Some restrictions apply).

MINT COMPUTER, BARGAIN PRICE — Sperry PC/IT (IBM AT compatible), rated 8.8 by InfoWorld!!; 44 megabyte hard disk; 2 floppy drives; 640K RAM; NEC Multisync Monitor!; Diablo printer; and megabytes of high-quality software!! Call Evan: (617) 497-5095.

Cambridge animal advocacy group seeking energetic, diplomatic, tolerant individual for organizational and public outreach position. Experience helpful. Send resume, references, personal statement of interest to: PO Box 1626, Cambridge, MA 02238. Inquiries welcome, 547-9255.

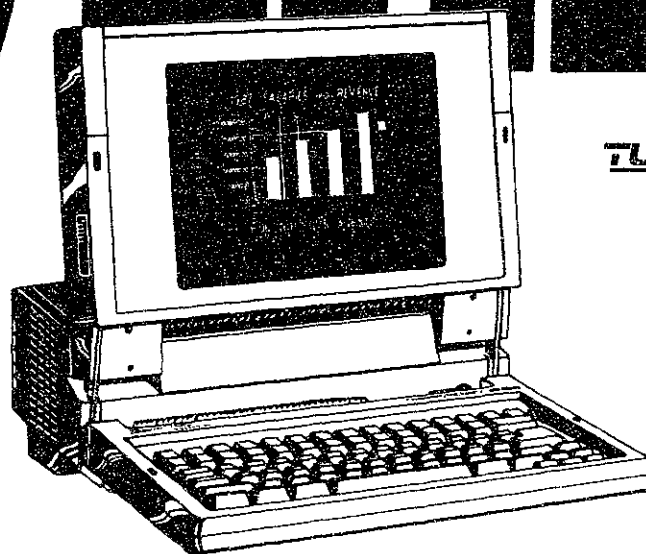
COUNCIL
TRAVEL

From BOSTON	Round Trips Starting at
LONDON	369
BRUSSELS	418
CARACAS	409
HONGKONG	769
SYDNEY From LAX	768

Taxes not included
ALSO Work-Study Abroad,
Language Courses, Int'l Student ID,
Youth Hostel Passes, EURAIL Passes
issued on the spot!

Call for the FREE CIEE Student
Travel Catalog!

Boston 617-266-1926
Cambridge 617-497-1497

ALLTERRAIN
VEHICLE

TURBOSPORT 386™

40MB Hard Disk Model
Suggested Retail Price: \$7999
Suggested Student Price Only: \$4399

40MB Hard Disk with
2400 bps Autosync Modem
Suggested Retail Price: \$8499
Suggested Student Price Only: \$4699

ZENITH INNOVATES AGAIN — WITH THE ALL NEW BATTERY-DRIVEN TURBOSPORT 386™ — TO PUT YOU ON THE ULTIMATE CAREER PATH.

Light and compact. Yet packed with 386 desktop speed and power. Running at 12MHz with zero wait state technology. For statistics, research, engineering, architecture and math-intensive studies. That's the revolutionary *TurboPort 386* from Zenith Data Systems — today's leader in battery-operated portables.

THE BEST VIEW ANYWHERE ON CAMPUS. The *TurboPort 386* offers an innovative "Page White" display for the ultimate in character clarity and readability. It rivals CRT contrast ratios with unmatched visibility under any classroom or dormroom lighting conditions.

SUPER-ADVANCED DESKTOP PERFORMANCE TO GO. The *TurboPort 386* offers a fast 40MB hard disk and 3.5" 1.44MB floppy drive to handle multi-task/multi-user applications and huge databases. 2MB RAM — expandable to 3MB with EMS and extended memory capabilities to support MS-DOS® and MS-OS/2®. Plus a removable battery and AC adapter/recharger. To give you ultimate desktop performance in a truly portable PC.

CARRY MORE HOURS MORE OFTEN. That's more hours of battery power. Thanks to Zenith's comprehensive *Intelligent Power Management* — a system that lets you control how your battery power is consumed so you're assured the highest battery power every time. And our "Fast Charge" battery recharges *four times faster* than most other battery-operated portables.

TO CAPTURE THE NEW TURBOSPORT 386 PORTABLE PC AT A SPECIAL STUDENT PRICE, VISIT YOUR ZENITH DATA SYSTEMS CAMPUS CONTACT TODAY:

For more information
contact:

Zenith Data Systems
454-8070

ZENITH data
systems

THE QUALITY GOES IN BEFORE THE NAME GOES ON™

MS-DOS and MS-OS/2 are registered trademarks of Microsoft Corp.
Special pricing offer good only on purchases directly through Zenith Contact(s) listed above by students, faculty and staff for their own use. No other discounts apply. Limit one portable personal computer per individual in any 12-month period. Prices subject to change without notice.
© 1988, Zenith Data Systems

Form No. 1390

Harsh realities are revealed through unusual symbiosis

GIRLTALK

Directed and produced by Kate Davis.
With Pinky, Mars, and Martha.
At the Brattle Theater May 6-12.
Benefit showing at 7:30pm May 6, with filmmakers present.

By MANAVENDRA K. THAKUR

WOMEN'S ISSUES are, paradoxically, often defined by men, and male-dominated film industries offer few exceptions to this rule. *Girltalk* is a refreshing change, in that it is one of the few films about women's issues made by women. The film documents the lives of three teenage runaway girls from Boston in an unflinching, intuitive style without slick television-style commentary, relying on the audience to decide which issues are and are not important.

What links the three girls is their common history of abuse and neglect. Pinky's father left home when she was small, and

her mother was judged to be a "neglectful parent." This 14 year old now refuses to go to school and is fascinated by pop music and anything pink. (She even wears pink Reeboks.)

Martha was sexually abused by her foster father for six years. Her mother was diagnosed as a paranoid schizophrenic. Now alone and pregnant at 18, she ended up living in over twenty foster homes and institutions after her father was sent to jail.

Mars' father once threatened to take her to "a motel room and break her in right." Mars has been on the streets since age 13, and she was gang-raped until she lost consciousness. She now works as a stripper in the Combat Zone, where her specialty is to flip cartwheels, lick lollipops, and ride a tricycle in a disturbingly schoolgirlish fashion.

These harsh realities are presented, however, quite matter-of-factly through an unusual symbiosis between filmmaker and subject that hasn't been seen much since

Jean Rouch's *Chronicle of a Summer* (1961). Most *cinema verite* filmmakers these days endeavor to disguise or limit the camera's "presence" and influence on the unfolding events. In this film, however, director Kate Davis seems more interested in using the filmmaking process to help make a difference in the life of the girls.

For example, Davis had the girls deliberately address the camera. According to an article in the *Windy City Times*, Davis told the girls that she "would take care [of them] before and after filming — that I wouldn't just run away to get it sold." Davis even let the girls help edit the final cut of the film. While this close link between filmmaker and subject removes any claim to journalistic objectivity, it allows Davis to apply her integrity as a filmmaker and human being in directions quite different from the typical documentary. The result is both candid and often painful.

Pinky seems the most uncomfortable with the film project because she remains

the most enigmatic of the three. Her presence in the film has little to reveal, apart from introducing the viewer to typical childhood troubles and setting the tone for the rest of the film. Asked why she "likes being a girl," she responds that "Girls get more respect. That's what I think."

The film is more effective in depicting the complexities of why Mars continues as a stripper. One's initial tendency is to blame her because it is apparent that she is not a drug addict or physically restrained to the bar. But the film goes on to reveal a hidden emotional tie to her work: Mars claims that her schoolgirl routine is her way of becoming a child for the first time in her life. She calls the bartender "Daddy," and a little sign on her tricycle's handbasket reads "I Refuse To Grow Up."

It would be patronizing to conclude that Mars is a total victim of her childhood and can do nothing to assuage the problem. Nevertheless, the realities of her childhood and current position force a reexamination of the issue and caution against a casual dismissal of Martha as a willing victim.

The film is at its best, however, as it follows Martha from late pregnancy to the birth of her child. The child's father is nowhere in sight, and it is apparent that Martha will succeed or fail on the basis of her own efforts. Martha is quite aware that patterns of abuse tend to repeat themselves, and she worries about being a good mother. One can only lament the early loss of childhood's innocence that leads Martha to say "I feel a lot older than 19." But it is also quite touching and inspiring to see her rising above her dismal childhood to take charge of her own life.

As should be apparent from the above paragraphs, *Girltalk* is not a well-reasoned and provocative argument piece like the feminist documentaries *Rate it X* and *Still Killing Us Softly*. Rather than trying to dazzle the viewer with brilliant scholarship or rhetoric, this film is more an introspective examination of the filmmaker's efforts to work with the girls. The lessons to be learned stem from an evolving and intuitive experience rather than from critical or substantive analysis. *Girltalk* manages to explore areas that have been given little attention in a manner that is not always successful but still effective in its own way.



Pinky, a teenage runaway from Boston, in a scene from *Girltalk*

BOOK • BUYBACK

CASH IN YOUR BOOKS AT THE MIT COOP. YOU MAY WIN A \$100 GIFT CERTIFICATE.

Get instant cash for your used text and reference books. The Coop may pay up to 50% of list price on books being used next year. Cash in value on other books is based on wholesale prices determined by Missouri Book Company. Our buyback service is computerized for up-to-date value and fast service. ID required for buybacks. Best of all, when the Coop buys back your books, you automatically become eligible to win a \$100 Gift Certificate for the MIT Coop. Winner to be chosen May 22. You do not have to be present to win.

Book buybacks at MIT only.

PACK IT UP

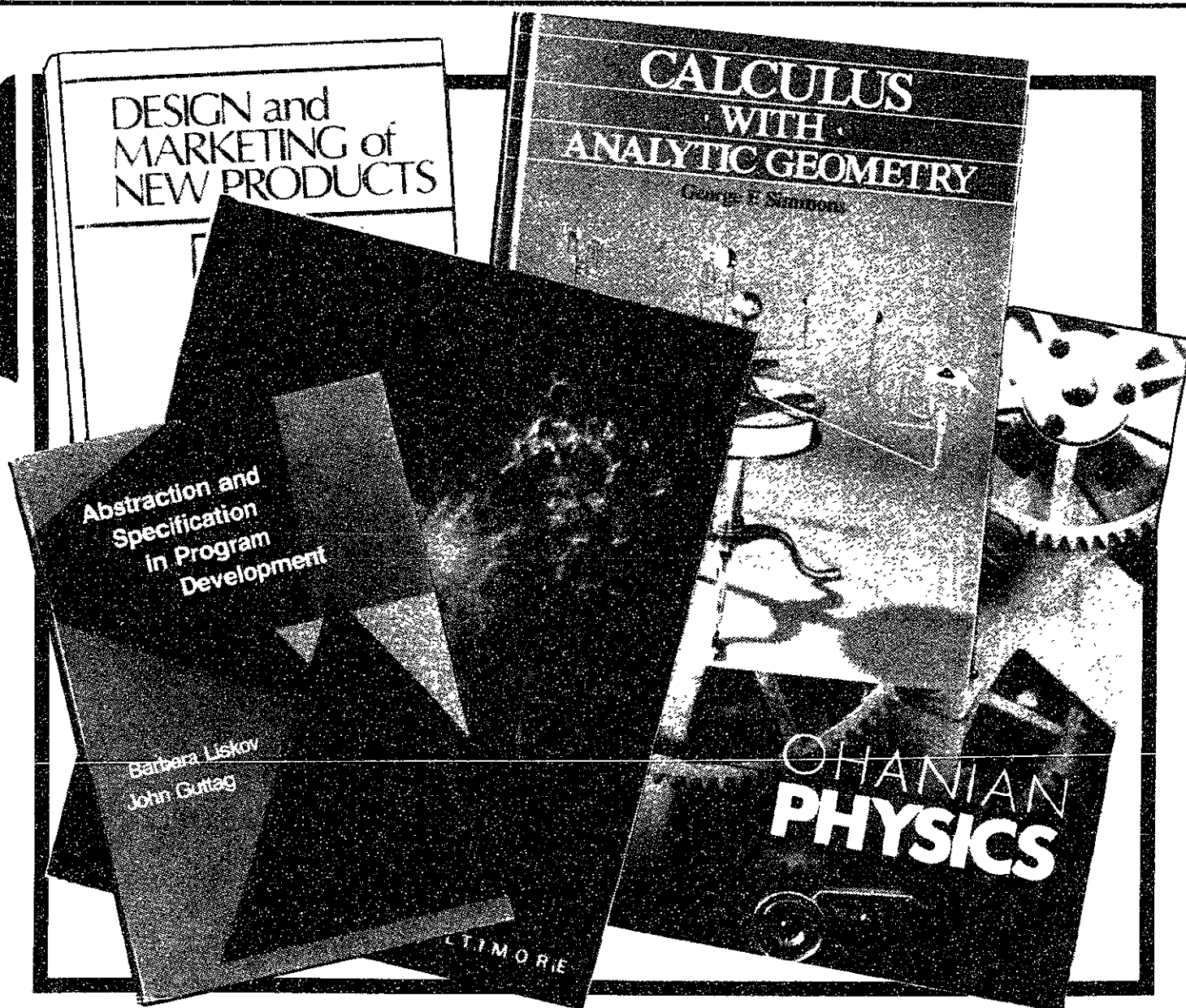
Go home in style. Make the Coop your one-stop shopping spot for all your packing needs, from sturdy cartons to everything in-between.

Corrugated cartons..... 75¢ small, \$1 large
Sturdy twine.....1.59 to 4.00
2" PVC tape 1.50 roll
Jiffy bags, 8 sizes.....20¢ to 75¢
Plus wide range of gummed, reinforced and Scotch brand tapes.

Available at MIT, Harvard and Longwood stores only.

HARVARD SQUARE Cambridge M-Sat 9:20-5:45pm Thurs 'til 8:30pm	MIT COOP AT KENDALL 3 Cambridge Center M-Fri 9:15-7pm Thurs 'til 8:30pm Sat 9:15-5:45pm	COOP AT LONGWOOD 333 Longwood Ave M-Fri 9:15-7pm Thurs 'til 8:30pm Sat. 9:15-5:45pm
--	--	--

PARK FREE IN HARVARD OR KENDALL SQ* Harvard Square-1 hr Church St lot or 2 hrs University Pl or Charles Sq garages.
Kendall Sq • 2 hrs M-Fri - One Memorial Drive Parking Garage or after 5pm weekdays and all day Saturday at Cambridge Center Garage.
PARK FOR \$1 AT LONGWOOD* Behind Coop after 5pm and all day Sat. *With sales receipt showing \$5 minimum Coop purchase: validate parking ticket at Coop Cashier's desk.



the Coop

Coop Charge, MasterCard, Visa and American Express welcome.

ARTS

John Williams makes opening night top of the pops

THE BOSTON POPS ORCHESTRA
John Williams, Conductor.
Dionne Warwick, Guest Vocalist.
Opening Night, Symphony Hall, May 3.

By PAIGÉ PARSONS

IF there's one sure-to-please annual event in Boston, it's got to be opening night at Pops. Tuesday's performance was no exception, and conductor John Williams earned himself a standing ovation.

Williams opened the evening with his new composition *The Olympic Spirit*, which he wrote for NBC's coverage of the 1988 Summer Olympics. It was energetically performed, but seemed like just another fanfare. The real fun began with the overture to *The School For Scandal*. This piece saw the musicians playing catch with the melody as it was passed from violas to violins and on to the woodwinds. *Meditation* from *Thais* featured a magnificent and expressive solo from concertmistress Tamara Smirnova-Sajfar, highlighting her legato technique.

My favorite pieces of the evening were the selections from Williams' score for *The*

Witches of Eastwick. *Balloon Dance* was light and airy, giving a feeling that you were actually floating over the pool with the witches. *Devil's Dance* was a movement combining the music heard as Jack Nicholson careens wildly on and off the road in his car (while the "witches" attempt to exorcise him from their lives) with the music of the film's end credits. The piece was performed lightheartedly, with a particular joviality from the woodwind section.

Dionne Warwick was the guest vocalist for the evening and she finally made her appearance after the first intermission. It took eight years for her busy schedule to fit with that of the Pops. It was worth the wait. Although her appearance was a mere 30 minutes and did not include an encore, the material she presented represented the highlights of her fruitful vocal career.

Warwick sang classics including "Walk on By," "Say a Little Prayer" and "Déjà Vu" and gave an exquisite rendition of her 1979 hit "I Know I'll Never Love This Way Again," demonstrating her dynamic range and unique vocal sound.

She ended her set with her hit "That's What Friends Are For," the song written

by Burt Bacharach to benefit the American Foundation For AIDS Research. It featured Rob Shrock on keyboards, providing Warwick with smooth and emotional backgrounds.

I thought the last set by the Pops would be a letdown after Warwick's performance extraordinaire. But the Pops soon had the audience cheering and clapping along with an All-American finale and encore that included a swinging dixieland-jazz version of "When the Saints Go Marching In." Williams conducted a stunning "Stars and Stripes Forever" that included a balloon drop and the unveiling of a huge American flag. Tamara Smirnova-Sajfar, concertmistress, played with unabashed vigor and enthusiasm, grinning from ear to ear as she took part in playing this traditional American Song.

In short, this was a night to remember; a true slice of Americana.

Note: Tech Night at Pops is on June 2 this year. Tickets will be on sale Monday to Friday in 10-110 from 9 am to 5 pm and in Lobby 10 from 11 am to 3 pm until May 10, and at the Symphony Hall box office thereafter.



John Williams conducts

Different styles combine to form an American dance



Gary DeLoatch, April Berry, and Rodney Nugent in Katherine Dunham's *L'ag'ya*, presented by the Alvin Ailey American Dance Theater

THE ALVIN AILEY AMERICAN DANCE THEATER

Alvin Ailey, artistic director.
The Magic of Katherine Dunham.
Wang Center, May 4.
Continues through May 8.
Event in The Tech Performing Arts Series.

By CLARE ELLEN SHEA

THE RHYTHMS AND COLORS of Black Heritage, captured in the dances of Katherine Dunham, had the audience smiling and toe-tapping at Wednesday evening's performance "The Magic of Katherine Dunham" by the Alvin Ailey American Dance Theater. The broad mixture of fourteen dances, all choreographed and staged by Katherine Dunham, ranged from cakewalks to spirituals to folktales of Martinique. Danced with energy and spunk, this Boston premiere was both entertaining and impressive.

By combining the vocabularies of classical, jazz, and modern dance, and adapting them to Black Heritage styles, Dunham ends up with a choreography that is very "American," freely borrowing from a variety of cultures and traditions. The resulting Black dance forms are distinctive and

stylistically their own, amounting to far more than a simple parroting of the several styles.

The variety of techniques called for by Dunham's choreography requires a company well-trained in all forms of dance. Because individual dancers naturally excel in some techniques and are less comfortable dancing others, the company exhibits some discontinuity; a dancer might appear outstanding in one number and mediocre in the next, thanks to his or her particular training.

April Berry was the exception to the rule; in as dissimilar roles as a lead in *L'ag'ya* and a member of the *corps de ballet* in other works, her dancing uniformly stood out. Because of her extensive ballet training, she exhibited beautiful classical lines, but without the usual restraint called for by the rigid training regimen. Her excellent stage presence and acting ability made her the outstanding performer of the evening.

Mastering the variety of techniques and styles of a choreography as rich as Dunham's requires a gifted troupe; the Alvin Ailey company shows that it can be done well. The result is a high-energy crowd-pleaser, a colorful fiesta with a little of something for everyone.

Gardner Realty Corp.

Manhattan's foremost apartment locating service since 1969

Congratulations on your graduation. If your first career job is going to be in the Big Apple, consider that our firm has found better quality apartments at lower rents for more past grads of your school than any other company in NYC.

Exclusive agents for over 500 buildings. Elev. brownstone & drmn buildings. Terraces, gardens, duplexes, fireplaces.

Studios from 650
 1 bedroom apts. (suits 2) from 800
 2 bedroom apts. (suits 3) from 1100
 3 bedroom apts. (suits 4) from 2000

Hundreds of choice apartments available at no fee. Our company cars with mobile phones will save you time in seeing apartments.

It's your money and your time — call us for a brochure to find out more about our incomparable service and product.

Call collect — (212) 427-6225

Jeff Roney — Syracuse '84
 Anthony Esposito — Univ. of Florida '76
 Gordon Loeb — SUNY '86

Directors of Corporate Relocation

Gardner Realty Corp.
 1276 Lexington Ave. (86th St.)
 Open 7 days and evenings til 7

I A P '89 BUST OR BONANZA ?

You can make the difference NOW!

Do NOT wait until the fall

CONTESTS AND COMPETITIONS — Can you organize some, involving students and faculty?

A WINTER CARNIVAL — improving on Dartmouth's — can you help?

WHAT FUN ACTIVITIES WOULD YOU LIKE TO SEE OFFERED? — Let us have suggestions and we'll try to find people to organize them or, better still, offer to organize them yourselves.

WHAT CLASSES, COURSES OR LECTURES WOULD YOU LIKE? — Let us know, and if they fall within IAP guidelines, we'll try to find faculty or instructors to teach them.

So, before you leave for the summer, call with your suggestions and offers of help.

IAP Office (Patty Murphy)	7-103, x3-1668
Travis Merritt (UASO Dean)	7-104, x3-6771
Mary Enterline (Dean for IAP)	7-104, x3-6771
Dave Wilson (IAP Chair)	3-455, x3-5121

HEWLETT PACKARD CALCULATORS

SAVE \$10

The HP-17B Calculator.

Easy-to-use business calculator. Features a powerful package of business and financial functions, number lists, appointments and time calculations. Helps you analyze sales with 4 different curve models. 6.5K usable memory. Reg. 99.99 SALE 89.99

SAVE \$10

The HP-27S Scientific Calculator.

A two-in-one calculator for technical students or professionals in management positions who also need to perform business calculations. Features menu labels and softkeys, HP solve for solving custom equations without programming, list based 1- and 2 variable statistics and curve fitting. 6.7K of available memory. Reg. 99.99 SALE 89.99

SAVE \$20

The HP-28S Advanced Scientific Calculator.

Delivers unparalleled scientific functions for both professionals and students who demand state-of-the-art tools. Features flexible graphics with graph storage and recall, HP solve for solving custom equations without programming, symbolic algebra and calculus. 32K of available memory. Reg. \$219 SALE \$199

DISKS AND RIBBONS

SAVE 20%-25%

Sony Disks

From the inventors of 3.5" disk drive technology. You can always rely on Sony for quality and performance. And you can always rely on the Coop selection and value.

Sony MFD-2DD 3.5" DS/DD Disks

Reg. 24.95 SALE 19.95

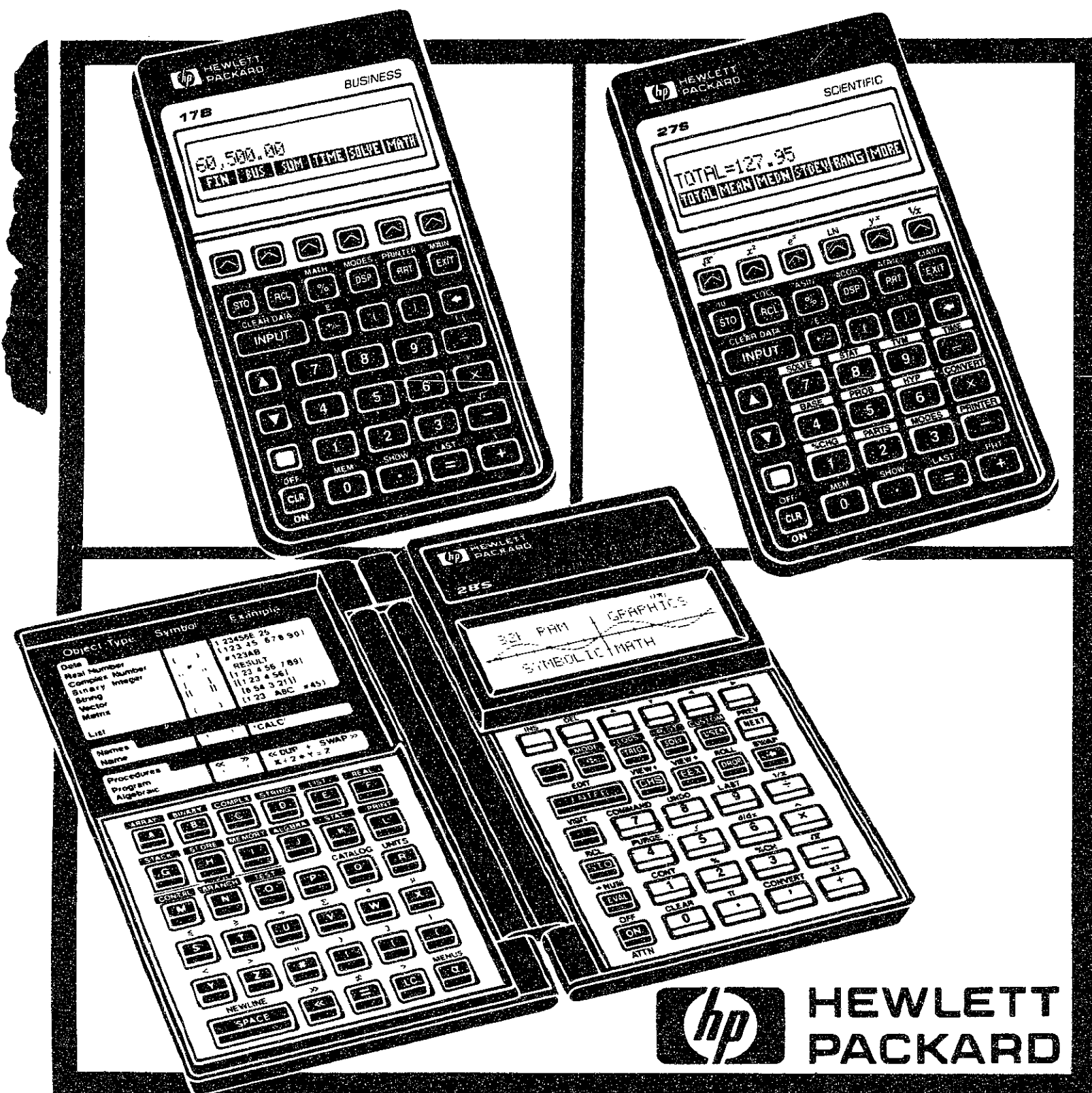
Sony MD-2D 5.25" DS/DD Disks

Reg. 11.95 SALE 8.95

SAVE 20%

All Computer Ribbons

Save on our entire stock of computer ribbons. Choose from IBM®, General Ribbon and Echodata.



HEWLETT
PACKARD



HARVARD SQUARE
Cambridge
M-Sat 9:20-5:45pm
Thurs 'til 8:30pm

MIT COOP AT KENDALL
3 Cambridge Center
M-Fri 9:15-7pm
Thurs 'til 8:30pm
Sat 9:15-5:45pm

COOP AT LONGWOOD
333 Longwood Ave
M-Fri 9:15-7pm
Thurs 'til 8:30pm
Sat 9:15-5:45pm

DOWNTOWN COOP
1 Federal St.
M-Fri 9:15-5:30pm

PARK FREE IN HARVARD OR KENDALL SQ* Harvard Square-1 hr Church St lot or 2 hrs University Pl or Charles Sq garages. Kendall Sq - 2 hrs M-Fri - One Memorial Drive Parking Garage or after 5pm weekdays and all day Saturday at Cambridge Center Garage. PARK FOR \$1 AT LONGWOOD* Behind Coop after 5pm and all day Sat. *With sales receipt showing \$5 minimum Coop purchase: validate parking ticket at Coop Cashier's desk.

Coop Charge, MasterCard, Visa and American Express welcome.

the
coop

ARTS

SinfoNova enlightens audiences as well as entertains

SINFONOVA

Conducted by Aram Gharabekian.
Avo Kuyumjian, soloist
Jordan Hall, April 29.
Event in The Tech Performing Arts Series

By JONATHAN RICHMOND

LAST FRIDAY SinfoNova, the orchestra conductor and composer Aram Gharabekian founded in 1983 and committed to a "unity of musical intent and style," completed its fifth Boston season in a Jordan Hall concert true to its reputation for polished but also thoughtful performances that send audiences away enlightened, not just entertained.

Of particular note was an unusually evocative yet subtle and intimate performance of Beethoven's *Piano Concerto No. 2*. Avo Kuyumjian, the 1981 First Prize winner of the Beethoven International Competition in Vienna, where he now lives, has performed widely throughout Europe and last November toured in the United States and Canada with the Salzburg Mozarteum Orchestra. Given the rare accomplishment of his Boston perfor-



Aram Gharabekian, Music Director

mance, he will surely be making more frequent American appearances in the future.

Critics have often seen the second piano concerto as an example of the immature Beethoven, a study in conventional classicism without the stirrings of revolutionary fire that were to develop later on. In a post-concert interview Kuyumjian agreed that the work looks back to Mozart and Bach, but regards that as a strength when coupled with the especially Beethovenian aspects he finds in the work, especially the use of bold dynamic contrasts.

Kuyumjian's ability to find originality in the piece was demonstrated by his revealing evocation of moods, facility at handling transitions, sensitivity in coloration and, perhaps above all, in his empathy with SinfoNova. He showed restraint and made himself an organic and thereby more communicative element of the musical ensemble, rather than following the path of so many virtuosi and going it alone.

The opening movement came across optimistic and dance-like. SinfoNova's strings exuded warmth and grace, while the flute of Marianne Gedigian was sensually fragrant and Kuyumjian's playing totally absorbed, sparkling, but lending an element of urgency as well. The seriousness of the *Adagio* flowed naturally from this introduction, Kuyumjian illuminating elements of pathos in a close and exhilarating relationship with the strings. Here was a profound and Mozartean lyricism. But here, too, were the seeds of tragedy that were to be displayed more overtly in the later Beethoven. Here, at the touching conclusion, was rapture.

The closing *Rondo*, with its bright cuckoo motif displaced by a theme in G minor, was played with a humor and inventiveness nonetheless rooted in introspection. Kuyumjian's quiet exit left him as he had begun, closely wedded to an ensemble whose whole he made greater than the sum of its parts.

Gharabekian is a risk taker, even when he can financially least afford it, and every



Avo Kuyumjian, pianist

SinfoNova program includes at least one new work or older work that is little known. For SinfoNova's Carnegie Hall debut last March (the orchestra had already made its debut at Los Angeles' Music Center), the ensemble gave the New York premiere of Edward Mirzoyan's *Adagio in Memory of Aram Khachaturian*, and a Mahler arrangement of Schubert's *Death and the Maiden*. For their debut in Boston's Symphony Hall last month, five new works by Boston composers were programmed. And, for Friday's dedication to the cause of experimentation, arrangements of three Johann Strauss waltzes by Berg, Schoenberg and Kenneth Stalberg were offered. Unfortunately, the waltzes

are far better in the original, and the arrangements (complete with piano and harmonium parts) came across as contrived and eccentric. SinfoNova's evidently-uncomfortable ensemble lapsed from their hallmark cohesiveness here.

Haydn's *Symphony No. 49*, "La Passione," was right on target, though. Charming and vividly performed to bring to light a huge variety of detail, its "Sturm und drang" passages were played with depth. SinfoNova's characteristic elegance, unity, soulfulness and reflectiveness were all present in this performance. These qualities will surely also augur well for the orchestra's next five years and the decades beyond.

SCC, PSK, & Theta Xi present: *Spring Weekend Concert*

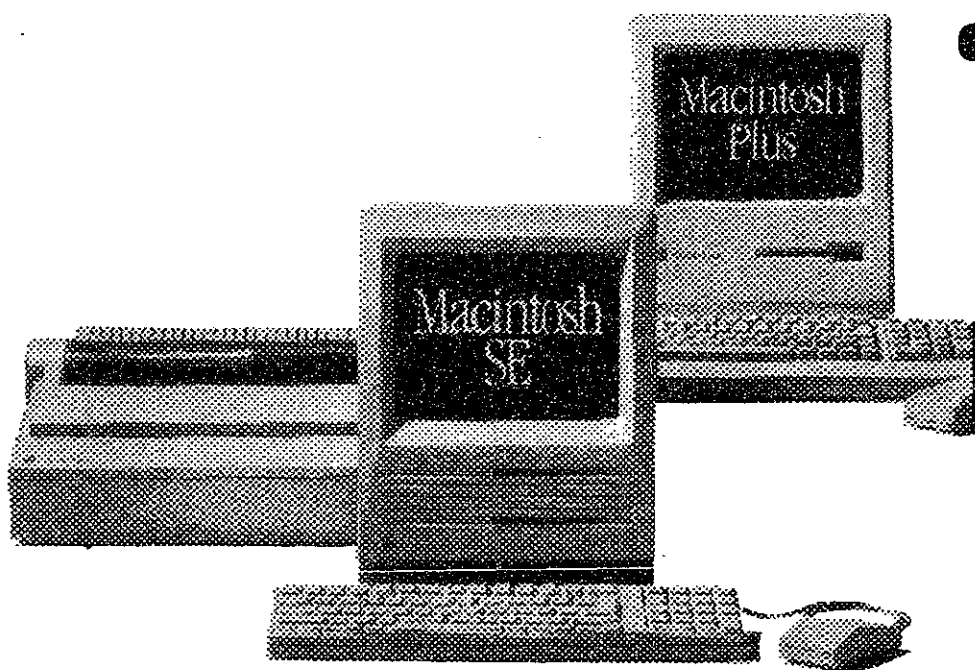
*with: The Zulus
O-Positive
Skin*

TONITE !

Doors open at 8pm

Tickets are \$3 and \$5
Available at the door

Last chance to get one with your parents' money.



Now that you've made it through college, ask your parents for a graduation present to help you get through life.

A Macintosh™ personal computer.

If you're headed off into the business world, we highly recommend our new Macintosh SE.

Between its one megabyte of RAM, double-sided 800K internal disk drives and expandability, it lets you put all the power of a corner office on a single corner of your desk.

If your parents buy the idea of a Macintosh, but feel like maybe they've donated enough to your future the past four years, there's always the powerful Macintosh Plus with its one megabyte of RAM, 128K of ROM and double-sided internal disk drive.

It's considerably more affordable, yet still has enough power to run hundreds of leading software programs.

Of course, with either Macintosh, you get our advanced point-and-click mouse technology that makes using them easier than passing Pinball Theory 101. So you can immediately be productive, without taking a course in remedial computing.

The affordable and powerful Macintosh Plus. And the expandable Macintosh SE. Both let you work faster, smarter — and more creatively. Add the ImageWriter™ II printer, and you'll produce crisp, impressive copies to prove it.

To learn more, visit your campus microcomputer center.

Soon.

Because once you're out of school, you're out of luck.



As a full time faculty, staff or student at MIT, you are eligible to purchase a MACINTOSH COMPUTER through the Apple University program. For further information, visit the MIT Microcomputer Center or call 253-7686.

Hours 10 AM — 4 PM, Monday — Friday.

©1988 Apple Computer, Inc., Apple, the Apple logo, Macintosh and ImageWriter are registered trademarks of Apple Computer, Inc.

opinion

Tenure process fails Professor Paul

(Editor's note: The Tech received a copy of this letter addressed to Ann Friedlaender, Dean of the School of Humanities, Arts, and Social Sciences)

We would like to bring to your attention the fact that many students are upset by the recent tenure denial of William Paul, a professor of many classes in the Film and Media Studies program. Upon inquiry into the possible reasons for this decision, we have concluded that the tenure review process has failed both Professor Paul and us.

It has failed him by inappropriately reviewing his credentials. MIT, in its proposed regrouping of HASS-D sections in Course XXI, has recognized that Film and Media Studies is inappropriately categorized under Literature. Why then was the decision of a film professor's tenure placed in the hands of the Literature faculty when respected film scholars from outside MIT, as well as the few at MIT, strongly recommended his tenure?

Moreover, the sole basis for the decision was a current working manuscript whose nature, the unexplored and controversial area of teenage horror and exploitation films, was deemed by

members of the review committee to be a topic unworthy of scholarly attention. Ironically, nine of 12 consulted outside film scholars expect this piece to be one of the most daring and thought-provoking studies of film in recent years. In the review process, looking solely at this manuscript alone ignores Paul's well-established career as a worthy film scholar, recognized critic, and competent educator and fails to consider his previous writings and acclaimed book (*Ernst Lubitsch's American Comedy*).

But even more important than the inherent problems with his tenure review is the fact that the process has cheated MIT students out of the opportunity to study film under a well-known and respected scholar. The influence of Paul motivated students who had found themselves taking many classes with him to approach the literature department with petitions to concentrate in Film and Media Studies before a formal concentration existed.

At that time, because of a lack of higher-level film courses, students also studied independently with Paul. More recently, after the establishment of the film concentration, the three of us have

gone to him for guidance and advice in successfully petitioning a curriculum for a Humanities degree in Film and Media Studies. To us, the loss of Paul will be a great one. After taking many classes with him, we can honestly say that he is an excellent teacher. He has enlightened and educated us tremendously and has been a driving and influential force in shaping our undergraduate educations.

We three alone are certainly not the only students who will be affected by his loss. Attached is a list of signatures, a mere sampling of the growing number of students interested in the Film and Media program. Each of these students has taken or is currently taking a class with Paul. We, as a group, feel slighted that the one, and only, doctorate in Film Studies, a major guiding influence in this growing program, is being taken from us and future MIT students.

Corinne Wayshak '89
Louis Pepe '88
Laird Malamed '89
and 55 others

Applicants interested in non-science fields

(Continued from page 4)

debate makes clear that the intention was not to allow for the admission of students with weaker ability. The intention was to allow MIT to accept applications from strong students who for legitimate reasons (many schools don't offer physics) hadn't been able to take every high school course we normally expect students to take. It appears that we have had about 20 students in each entering class who haven't had physics. The distribution of their grades in physics has matched the over-all grade distribution indicating no special weakness in their own ability. This, unfortunately, may tell us something about the quality of the high school physics courses taken by the other students.

If standards have been lowered, are those who perceive a lower level of motivation and/or performance in the core science courses wrong? Not necessarily. The recent classes include 70-100

fewer students preparing for a major in Course 6. The classes include many more students with what we believe to be comparable ability in math and science but different goals. I would be surprised if this didn't influence motivation and performance in core science courses.

The question should not be one of standards. We don't believe they've lowered. We are, in fact, always engaged in studies of standards and performance. If we see evidence of standards being lowered, we will work to raise them. MIT should maintain the highest standards. The real question is whether MIT is a school which should attract students with strong backgrounds in math and science who want to major in areas such as architecture, management, economics, and political science. We believe MIT has served such students well in the past and can serve more today.

Michael C. Behnke
Director of Admissions

IAP '88 Award Winners

The IAP Policy Committee congratulates the following students, faculty, and staff for their outstanding contributions to IAP '88. They received six \$500 awards funded by Margaret MacVicar, dean for undergraduate education.

1. **Joni Bubluski**, Information Systems
IAP Activity: 1182 Hyperfest: A HyperCard Show-and-Tell
2. **Fanny Howe**, Experimental Study Group
IAP Activity: 1102 Writing Workshop
3. **Richard Koch**, graduate student, Mathematics
IAP Activity: 4021 Human Rights Films
Wade Sapp, principal research scientist, Laboratory for Nuclear Science
IAP Activity: 1276 Tour Of The Bates Linear Accelerator Center: Especially For Freshmen
4. **Yichen Mao** '89
IAP Activity: Cafe 13
5. **Greg Moore**, **John Outwater**, and **Steve Boerigter**, graduate students, Nuclear Engineering
IAP Activities: 445 A General Look At US Electric Power: Alternatives, Costs, And Benefits; 449 Field Trip To Northfield Mountain Pump Storage Power Plant; 450 Field Trip To Seabrook Nuclear Power Plant
6. **Ming-Kai Tse**, Mechanical Engineering
IAP Coordinator

NICE PEOPLE LEAVE YOU MONEY.

With tips our waiter/waitress can earn \$450 + per wk. Good benefits available. Popular family-owned Cambridge Restaurant. Full/part time. AM/PM. Call Doris 354-2015 or come to 1334 Cambridge St., Camb.



Restaurant
A Great Find Since 1919.

R & D ENGINEERS

Honda R & D North America, Inc., is looking for degreed Engineers to take part in a unique international, long-term training program in preparation for key technical management positions in the future.

These positions will involve intensive training both in the United States and Japan and require a BSME from a major American University, and a personality adaptable to a wide range of situations, activities and cultures. The flexibility to spend extensive periods of time overseas and a strong interest in R & D work is also required.

We offer a comprehensive overall compensation and benefits program and excellent career opportunities for the right individuals. Please send your resume, including salary history, to: Honda R & D North America, Inc., 1900 Harpers Way, Torrance, CA 90501. Equal Opportunity Employer.

HONDA

R & D North America, Inc.

HE'S THE GURU OF GOOD TIMES!

BUD LIGHT

BUD LIGHT

BUD LIGHT

Party Right with Bud Light!

SPUDS MACKENZIE, THE ORIGINAL PARTY ANIMAL.

comics

Platt

By Allan Duffin



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.

USA Cinemas in Somerville is now hiring service staff personnel. Great weekend job. Enjoy free movies and flexible schedules. Summer help needed as well. Apply in person at USA Cinemas in Somerville next to the Assembly Square Mall after 1 pm daily.

If you love money, you'll sell your textbooks to the B. U. Bookstore, Kenmore Square. We'll give you up to 50% of the current price in CASH! (Some restrictions apply).

Full-time summer position available for person with experience in C language with all-MIT grad startup company. Call 242-7468 to leave message.

SUMMER JOBS!

Work as a live-in Big brother this summer tutoring and caring for children at \$175 per week plus all living expenses and some travel. Free training available. Call 237-0211 for more info.

Digital Designer wanted with two years experience building complex system, especially error-correction and 8-bit microprocessor. Two months work for cash, equity or royalty. All-MIT E.E. Company. Call Philip at 662-8735 and leave a message.

FULL-TIME/PART-TIME JOBS

\$400 full-time, \$175 part-time/week. Flexible hours in local company. Various positions. No experience necessary. Call 9 am - 5 pm (617) 396-8208. Mr. Federico.

Brown & Finnegan Moving Service Local. Long Distance. Overseas. No job too small. Reasonable rates. Frequent Trips all NE, NY, NJ, DC, VA, PA. 364-1927 or 361-8185.

Business, communication, and postal services center, retail, seeks college students for counter and courier positions. Morning and afternoon hours, F/T or P/T. Please apply in person. Mail Boxes Etc. 304 Newbury St. Boston.

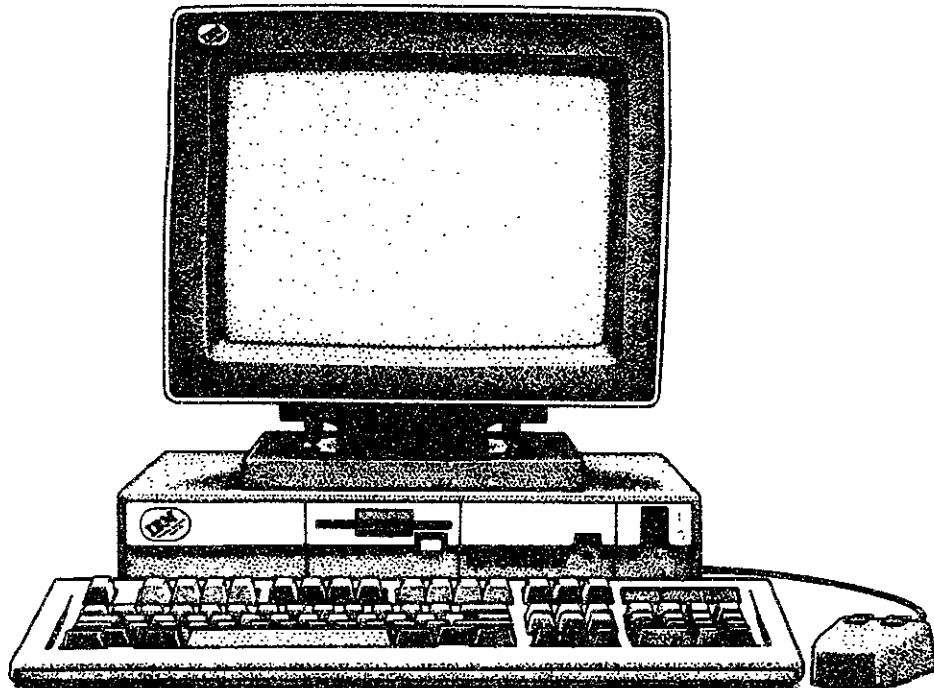
Publishing Opportunity

Excellent English skills, study in design or experience with computers, and an interest in publishing as a career could qualify you for a summer position with a book publishing company in Rockport, MA. On MBTA line.

Call today for further information.

Editorial Inc.
617-546-7346

Congratulations Seniors!



**Take an IBM PS/2
with you before you graduate
and save up to 40%**

Now qualified students of MIT can save up to 40% on IBM equipment and accessories. All you have to do is place your order through the MIT MicroComputer Center. Products can even be shipped to a dealer* in your hometown at no additional cost to you.

But remember, order your Personal System/2 before graduation. After that we can't deliver your discount. This offer expires May 29th for graduating seniors.

If you've been thinking about getting your own IBM PS/2 (or hinting for a graduation present), now is the time. Check it out today.

MicroComputer Center
Room 11-209
10AM-4PM



Participating dealers within the United States only. Contact MicroComputer Center for names of participating dealers. Personal System/2 is a registered trademark of IBM Corp.



Michael D. Grossberg/The Tech

Students from the MIT Hunger Action committee and other MIT community members walk through the streets of Boston during the 19th annual Walk for Hunger last Sunday. Sponsors estimate the 20 mile walk raised \$3 million for soup kitchens and similar programs.

Food service examines expanded meal options

(Continued from page 1)
mid-August but service will not start until mid-September. Miller wished that there could be a "practice period before coming into full power." R/O could serve this purpose, he said.

The food court in the Student Center will be open seven days a week "and the hours will be set by the market," according to Miller. In addition to the grill, fast food, pizza, bread and soup, deli, dessert and fresh-baked pastry area, the food court will carry ethnic foods (Mexican, Chinese, etc.) which will change every week.

Miller observed that kitchen and dining facilities in the dormitories need to be redesigned for better service. "Most of the houses were designed to serve commons rather than *a la carte*," he said. Maguire agreed but said that remodeling and redesigning is still in the "idea phase."

As far as the price of the meals goes, only about 40 percent is incurred by food, Miller explained. The rest goes towards wage, benefits and utilities which are higher than the industry levels. Loss or profit for ARA amounts to only two percent of sales, he said.

However, food service is subsidized by the Institute, Miller noted.

ed. Maguire said the Institute provides \$400,000 per year from its operations budget to subsidize each of the houses with cafeterias.

Miller, who was the manager of food service at the six-campus Minnesota State University before his recent appointment here, said he enjoys the challenge of his job "because there is so much changing and redesigning to do here."

Gourmet Chinese Dining
Contemporary Elegance
Fine Wine Selections



782 Main Street Cambridge, MA
(617) 661-1660

**Give a hoot.
Don't pollute.**
Forest Service, U.S.D.A.

This space donated by The Tech

TEAMWORK RELOCATION REALTORS

Assisting students in locating suitable Manhattan apartments. Short term/long term - furnished/unfurnished. For additional information please contact John Andreadis, Gladys Simon or Michael Pacca.

1 - 800 - CITY - APT.

Harvard-Epworth United Methodist Church

1555 Massachusetts Ave.
opposite Cambridge Common

Sunday Worship: 9 and 11 am

Summer Marketing Position

Grad student to help promote in various markets a new AI software product that analyzes bulk English text content. Independent, Cambridge-based telephone and writing activity. Send resume or further inquiry at once to Lexikos Corporation. 69 Heath Road, No. Andover, MA 01845.

*From 5-7:00 p.m.
enjoy a full
course Marriott
meal for a less-
than-full-price.*

A fine meal is a great way to begin an evening. And whether you're seeing a movie at 8:00 or a game at 9:00, you won't find a better way to start the night then by eating at the Terrace View Grille.

Enjoy a full course dinner, complete with soup or salad, your choice of entree, non-alcoholic beverage, and dessert all at a fabulous price.

Each week there is a different menu of specially priced selections. For example: London Broil \$9.95, Boston Scrod \$8.95, Stir Fry Chicken \$8.95, Fried Clams \$8.95.

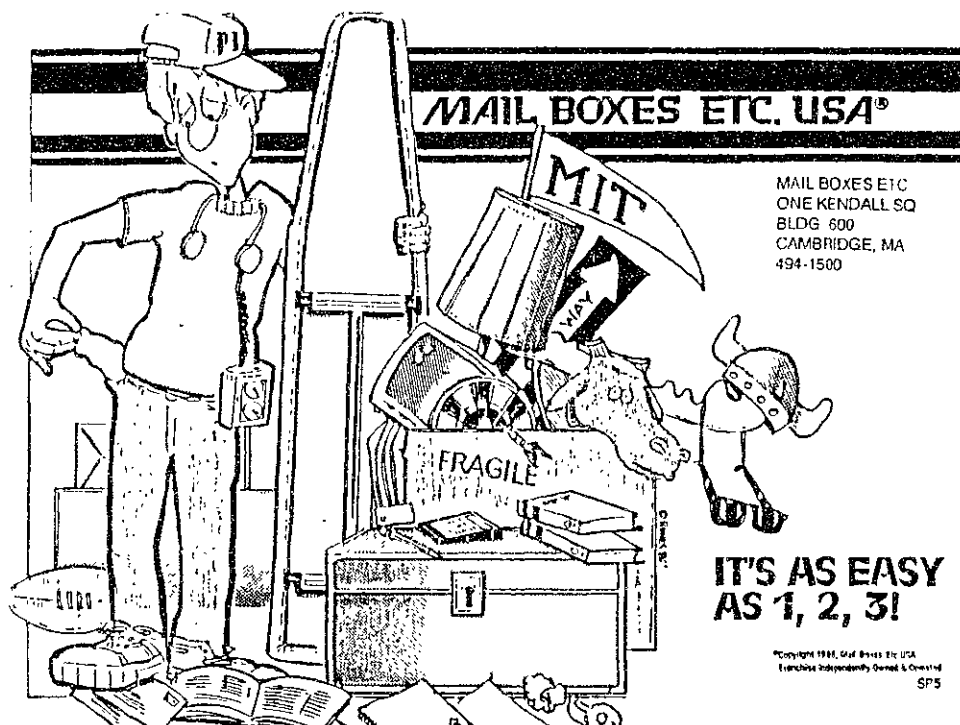
These are just a few of the items available from 5-7:00 p.m. So the next time you want to start your night early, eat early at the Cambridge Center Marriott.



Marriott People know how.

CAMBRIDGE CENTER **Marriott**

Two Cambridge Center, Cambridge, Massachusetts 02142 (617) 494-6600



WANT THE EASIEST & BEST WAY
TO SHIP YOUR BELONGINGS HOME

LET MAIL BOXES ETC. and
UNITED PARCEL SERVICE
Provide Fast, Safe & Efficient Service
Door to Door

----- BRING -----

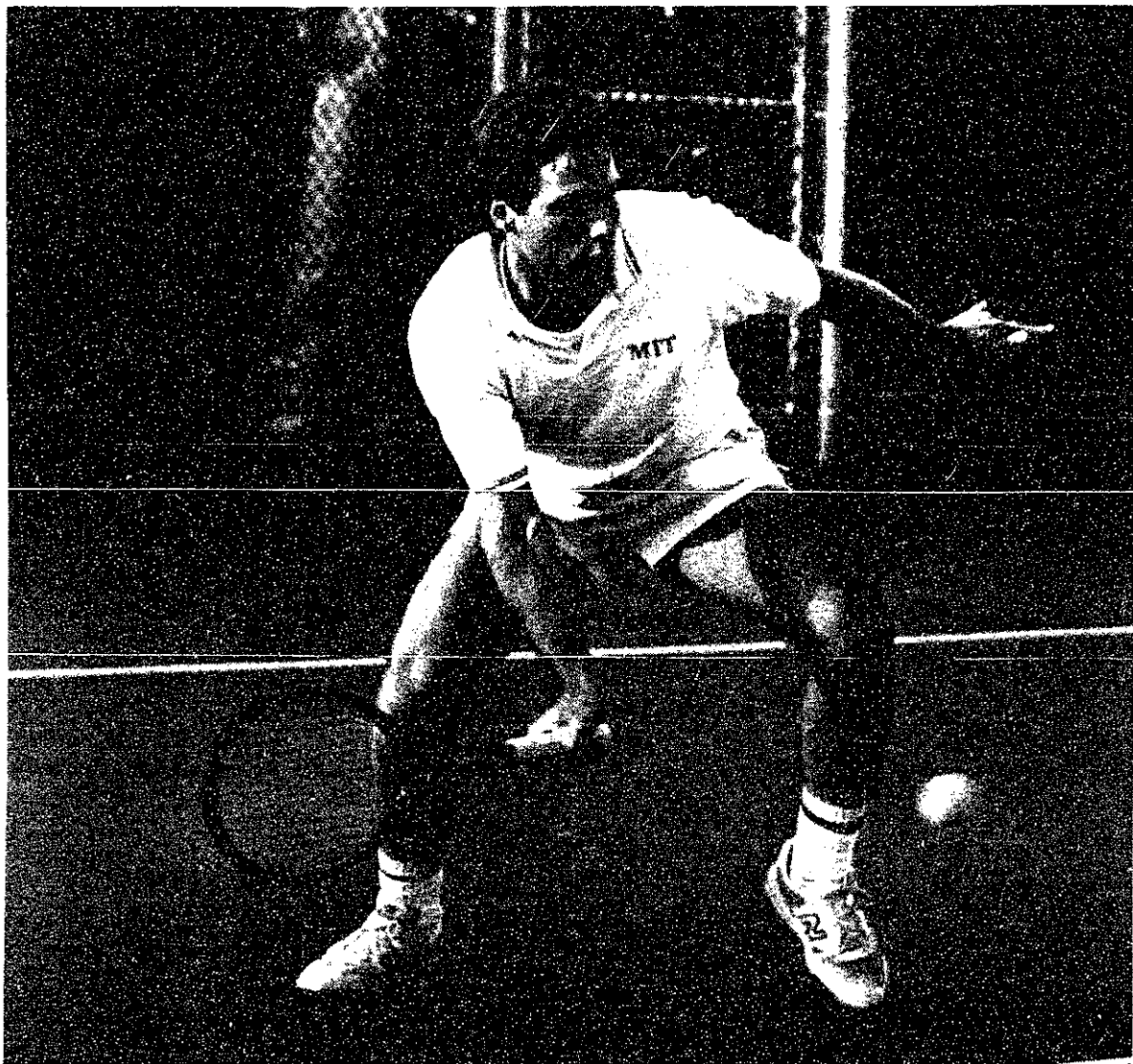
Clothes - Books - Breakables - Stereos
Lamps - Clocks - Computers - Etc., Etc., Etc.

Mail Boxes Etc. will be on campus during finals week!
with boxes and packing materials.
Pack it yourself or let us do it for you!

We will be at the Athletic Center from:
Monday, May 16th thru Thursday, May 20th
9:00 AM to 5:00 PM

Visit our full service store at One Kendall Sq.
behind Draper Labs where Hampshire St. meets Broadway.

For more information
Call 494-1500



Ben Spehman '88 returns a volley during Tuesday's match against Bates. Unfortunately, he lost this doubles match 6-3, 6-4. Bates won the contest 5-4.

James Chiang/The Tech

Gray, others, speak in honor of former president James Killian

(Continued from page 1)

'60s, Gray remembered Killian as one who "taught us perspective, and the importance of fundamental principles."

And Killian, flowering in the New England intellectual environment that proved perfect for him, Johnson said, found in almost every opportunity a way to grow with the Institute. Even his early work as an editor at *Technology Review*, which would hardly seem to some as the beginnings of a college president, Johnson said, was a crucial part of his development, helping to train his talent into clear writing

ability — to make him a very successful communicator.

Killian was a private man "who had the quality to sit patiently in a storm of words till he had something to say," recounted President Emeritus Jerome B. Wiesner, noting that Killian had a talent for making sense of tangled issues.

Killian had a sense of the dangers of overspecialization, Weisskopf said. Though there are many "experts" today, he lamented, "what we sorely miss is persons who have the dignity, the wide human approach, the greatness of character, of James Killian."

Three faculty members discuss impact of Iran-contra on vote

(Continued from page 2)

tactics are being employed. Independent counsel Lawrence Walsh will have difficult using the evidence he wants to, Menand noted, because the defense is using a sort of "gray-mail," by insisting that all evidence used be made public, even sensitive documents.

Menand said it was not clear whether the Iran/contra affair will have any effect on Bush during the election, since the issue is not clearly spelled out into good and bad.

A potentially more dangerous association for Bush, Menand noted, would occur if Panamanian strongman Manuel Noriega were successfully linked to US national security agencies. As one-time head of the Central Intelligence Agency, Bush had to know that Noriega was involved in drug dealing, Thurow said, but he did

not do anything about it. That relationship might blow up during the election.

Presidential power

The power of the President, Thurow said, lies mostly in his image. It is the President who sets the national agenda, and a lot of people want to hide behind him.

Thurow said Carter defeated himself in Tehran by treating the hostage issue with such importance. There was a similar hostage incident during Lyndon Johnson's presidency, Thurow said, but Johnson downplayed it enourmously.

Any President will have to deal effectively with the news media, because television is the only way to reach the 242 million inhabitants of the United States, Thurow said.

Pick Up The MIT Press's Frequent Buyer Flyer

Based on Cambridge and MIT Press's 20, 60, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, 10000, 10100, 10200, 10300, 10400, 10500, 10600, 10700, 10800, 10900, 11000, 11100, 11200, 11300, 11400, 11500, 11600, 11700, 11800, 11900, 12000, 12100, 12200, 12300, 12400, 12500, 12600, 12700, 12800, 12900, 13000, 13100, 13200, 13300, 13400, 13500, 13600, 13700, 13800, 13900, 14000, 14100, 14200, 14300, 14400, 14500, 14600, 14700, 14800, 14900, 15000, 15100, 15200, 15300, 15400, 15500, 15600, 15700, 15800, 15900, 16000, 16100, 16200, 16300, 16400, 16500, 16600, 16700, 16800, 16900, 17000, 17100, 17200, 17300, 17400, 17500, 17600, 17700, 17800, 17900, 18000, 18100, 18200, 18300, 18400, 18500, 18600, 18700, 18800, 18900, 19000, 19100, 19200, 19300, 19400, 19500, 19600, 19700, 19800, 19900, 20000, 20100, 20200, 20300, 20400, 20500, 20600, 20700, 20800, 20900, 21000, 21100, 21200, 21300, 21400, 21500, 21600, 21700, 21800, 21900, 22000, 22100, 22200, 22300, 22400, 22500, 22600, 22700, 22800, 22900, 23000, 23100, 23200, 23300, 23400, 23500, 23600, 23700, 23800, 23900, 24000, 24100, 24200, 24300, 24400, 24500, 24600, 24700, 24800, 24900, 25000, 25100, 25200, 25300, 25400, 25500, 25600, 25700, 25800, 25900, 26000, 26100, 26200, 26300, 26400, 26500, 26600, 26700, 26800, 26900, 27000, 27100, 27200, 27300, 27400, 27500, 27600, 27700, 27800, 27900, 28000, 28100, 28200, 28300, 28400, 28500, 28600, 28700, 28800, 28900, 29000, 29100, 29200, 29300, 29400, 29500, 29600, 29700, 29800, 29900, 30000, 30100, 30200, 30300, 30400, 30500, 30600, 30700, 30800, 30900, 31000, 31100, 31200, 31300, 31400, 31500, 31600, 31700, 31800, 31900, 32000, 32100, 32200, 32300, 32400, 32500, 32600, 32700, 32800, 32900, 33000, 33100, 33200, 33300, 33400, 33500, 33600, 33700, 33800, 33900, 34000, 34100, 34200, 34300, 34400, 34500, 34600, 34700, 34800, 34900, 35000, 35100, 35200, 35300, 35400, 35500, 35600, 35700, 35800, 35900, 36000, 36100, 36200, 36300, 36400, 36500, 36600, 36700, 36800, 36900, 37000, 37100, 37200, 37300, 37400, 37500, 37600, 37700, 37800, 37900, 38000, 38100, 38200, 38300, 38400, 38500, 38600, 38700, 38800, 38900, 39000, 39100, 39200, 39300, 39400, 39500, 39600, 39700, 39800, 39900, 40000, 40100, 40200, 40300, 40400, 40500, 40600, 40700, 40800, 40900, 41000, 41100, 41200, 41300, 41400, 41500, 41600, 41700, 41800, 41900, 42000, 42100, 42200, 42300, 42400, 42500, 42600, 42700, 42800, 42900, 43000, 43100, 43200, 43300, 43400, 43500, 43600, 43700, 43800, 43900, 44000, 44100, 44200, 44300, 44400, 44500, 44600, 44700, 44800, 44900, 45000, 45100, 45200, 45300, 45400, 45500, 45600, 45700, 45800, 45900, 46000, 46100, 46200, 46300, 46400, 46500, 46600, 46700, 46800, 46900, 47000, 47100, 47200, 47300, 47400, 47500, 47600, 47700, 47800, 47900, 48000, 48100, 48200, 48300, 48400, 48500, 48600, 48700, 48800, 48900, 49000, 49100, 49200, 49300, 49400, 49500, 49600, 49700, 49800, 49900, 50000, 50100, 50200, 50300, 50400, 50500, 50600, 50700, 50800, 50900, 51000, 51100, 51200, 51300, 51400, 51500, 51600, 51700, 51800, 51900, 52000, 52100, 52200, 52300, 52400, 52500, 52600, 52700, 52800, 52900, 53000, 53100, 53200, 53300, 53400, 53500, 53600, 53700, 53800, 53900, 54000, 54100, 54200, 54300, 54400, 54500, 54600, 54700, 54800, 54900, 55000, 55100, 55200, 55300, 55400, 55500, 55600, 55700, 55800, 55900, 56000, 56100, 56200, 56300, 56400, 56500, 56600, 56700, 56800, 56900, 57000, 57100, 57200, 57300, 57400, 57500, 57600, 57700, 57800, 57900, 58000, 58100, 58200, 58300, 58400, 58500, 58600, 58700, 58800, 58900, 59000, 59100, 59200, 59300, 59400, 59500, 59600, 59700, 59800, 59900, 60000, 60100, 60200, 60300, 60400, 60500, 60600, 60700, 60800, 60900, 61000, 61100, 61200, 61300, 61400, 61500, 61600, 61700, 61800, 61900, 62000, 62100, 62200, 62300, 62400, 62500, 62600, 62700, 62800, 62900, 63000, 63100, 63200, 63300, 63400, 63500, 63600, 63700, 63800, 63900, 64000, 64100, 64200, 64300, 64400, 64500, 64600, 64700, 64800, 64900, 65000, 65100, 65200, 65300, 65400, 65500, 65600, 65700, 65800, 65900, 66000, 66100, 66200, 66300, 66400, 66500, 66600, 66700, 66800, 66900, 67000, 67100, 67200, 67300, 67400, 67500, 67600, 67700, 67800, 67900, 68000, 68100, 68200, 68300, 68400, 68500, 68600, 68700, 68800, 68900, 69000, 69100, 69200, 69300, 69400, 69500, 69600, 69700, 69800, 69900, 70000, 70100, 70200, 70300, 70400, 70500, 70600, 70700, 70800, 70900, 71000, 71100, 71200, 71300, 71400, 71500, 71600, 71700, 71800, 71900, 72000, 72100, 72200, 72300, 72400, 72500, 72600, 72700, 72800, 72900, 73000, 73100, 73200, 73300, 73400, 73500, 73600, 73700, 73800, 73900, 74000, 74100, 74200, 74300, 74400, 74500, 74600, 74700, 74800, 74900, 75000, 75100, 75200, 75300, 75400, 75500, 75600, 75700, 75800, 75900, 76000, 76100, 76200, 76300, 76400, 76500, 76600, 76700, 76800, 76900, 77000, 77100, 77200, 77300, 77400, 77500, 77600, 77700, 77800, 77900, 78000, 78100, 78200, 78300, 78400, 78500, 78600, 78700, 78800, 78900, 79000, 79100, 79200, 79300, 79400, 79500, 79600, 79700, 79800, 79900, 80000, 80100, 80200, 80300, 80400, 80500, 80600, 80700, 80800, 80900, 81000, 81100, 81200, 81300, 81400, 81500, 81600, 81700, 81800, 81900, 82000, 82100, 82200, 82300, 82400, 82500, 82600, 82700, 82800, 82900, 83000, 83100, 83200, 83300, 83400, 83500, 83600, 83700, 83800, 83900, 84000, 84100, 84200, 84300, 84400, 84500, 84600, 84700, 84800, 84900, 85000, 85100, 85200, 85300, 85400, 85500, 85600, 85700, 85800, 85900, 86000, 86100, 86200, 86300, 86400, 86500, 86600, 86700, 86800, 86900, 87000, 87100, 87200, 87300, 87400, 87500, 87600, 87700, 87800, 87900, 88000, 88100, 88200, 88300, 88400, 88500, 88600, 88700, 88800, 88900, 89000, 89100, 89200, 89300, 89400, 89500, 89600, 89700, 89800, 89900, 90000, 90100, 90200, 90300, 90400, 90500, 90600, 90700, 90800, 90900, 91000, 91100, 91200, 91300, 91400, 91500, 91600, 91700, 91800, 91900, 92000, 92100, 92200, 92300, 92400, 92500, 92600, 92700, 92800, 92900, 93000, 93100, 93200, 93300, 93400, 93500, 93600, 93700, 93800, 93900, 94000, 94100, 94200, 94300, 94400, 94500, 94600, 94700, 94800, 94900, 95000, 95100, 95200, 95300, 95400, 95500, 95600, 95700, 95800, 95900, 96000, 96100, 96200, 96300, 96400, 96500, 96600, 96700, 96800, 96900, 97000, 97100, 97200, 97300, 97400, 97500, 97600, 97700, 97800, 97900, 98000, 98100, 98200, 98300, 98400, 98500, 98600, 98700, 98800, 98900, 99000, 99100, 99200, 99300, 99400, 99500, 99600, 99700, 99800, 99900, 100000, 100100, 100200, 100300, 100400, 100500, 100600, 100700, 100800, 100900, 101000, 101100, 101200, 101300, 101400, 101500, 101600, 101700, 101800, 101900, 102000, 102100, 102200, 102300, 102400, 102500, 102600, 102700, 102800, 102900, 103000, 103100, 103200, 103300, 103400, 103500, 103600, 103700, 103800, 103900, 104000, 104100, 104200, 104300, 104400, 104500, 104600, 104700, 104800, 104900, 105000, 105100, 105200, 105300, 105400, 105500, 105600, 105700, 105800, 105900, 106000, 106100, 106200, 106300, 106400, 106500, 106600, 106700, 106800, 106900, 107000, 107100, 107200, 107300, 107400, 107500, 107600, 107700, 107800, 107900, 108000, 108100, 108200, 108300, 108400, 108500, 108600, 108700, 108800, 108900, 109000, 109100, 109200, 109300, 109400, 109500, 109600, 109700, 109800, 109900, 110000, 110100, 110200, 110300, 110400, 110500, 110600, 110700, 110800, 110900, 111000, 111100, 111200, 111300, 111400, 111500, 111600, 111700, 111800, 111900, 112000, 112100, 112200, 112300, 112400, 112500, 112600, 112700, 112800, 112900, 113000, 113100, 113200, 113300, 113400, 113500, 113600, 113700, 113800, 113900, 114000, 114100, 114200, 114300, 114400, 114500, 114600, 114700, 114800, 114900, 115000, 115100, 115200, 115300, 115400, 115500, 115600, 115700, 115800, 115900, 116000, 116100, 116200, 116300, 116400, 116500, 116600, 116700, 116800, 116900, 117000, 117100, 117200, 117300, 117400, 117500, 117600, 117700, 117800, 117900, 118000, 118100, 118200, 118300, 118400, 118500, 118600, 118700, 118800, 118900, 119000, 119100, 119200, 119300, 119400, 119500, 119600, 119700, 119800, 119900, 120000, 120100, 120200, 120300, 120400, 120500, 120600, 120700, 120800, 120900, 121000, 121100, 121200, 121300, 121400, 121500, 121600, 121700, 121800, 121900, 122000, 122100, 122200, 122300, 122400, 122500, 122600, 122700, 122800, 122900, 123000, 123100, 123200, 123300, 123400, 123500, 123600, 123700, 123800, 123900, 124000, 124100, 124200, 124300, 124400, 124500, 124600, 124700, 124800, 124900, 125000, 125100, 125200, 125300, 125400, 125500, 125600, 125700, 125800, 125900, 126000, 126100, 126200, 126300, 126400, 126500, 126600, 126700, 126800, 126900, 127000, 127100, 127200, 127300, 127400, 127500, 127600, 127700, 127800, 127900, 128000, 128100, 128200, 128300, 128400, 128500, 128600, 128700, 128800, 128900, 129000, 129100, 129200, 129300, 129400, 129500, 129600, 129700, 129800, 129900, 130000, 130100, 130200, 130300, 130400, 130500, 130600, 130700, 130800, 130900, 131000, 131100, 131200, 131300, 131400, 131500, 131600, 131700, 131800, 131900, 132000, 132100, 132200, 132300, 132400, 132500, 132600, 132700, 132800, 132900, 133000, 133100, 133200, 133300, 133400, 133500, 133600, 133700, 133800, 133900, 134000, 134100, 134200, 134300, 134400, 134500, 134600, 134700, 134800, 134900, 135000, 135100, 135200, 135300, 135400, 135500, 135600, 135700, 135800, 135900, 136000, 136100, 136200, 136300, 136400, 136500, 136600, 136700, 136800, 136900, 137000, 137100, 137200, 137300, 137400, 137500, 137600, 137700, 137800, 137900, 138000, 138100, 138200, 138300, 138400, 138500, 138600, 138700, 138800, 138900, 139000, 139100, 139200, 139300, 139400, 139500, 139600, 139700, 139800, 139900, 140000, 140100, 140200, 140300, 140400, 140500, 140600, 140700, 140800, 140900, 141000, 141100, 141200, 141300, 141400, 141500, 141600, 141700, 141800, 141900, 142000, 142100, 142200, 142300, 142400, 142500, 142600, 142700, 142800, 142900, 143000, 143100, 143200, 143300, 143400, 143500, 143600, 143700, 143800, 143900, 144000, 144100, 144200, 144300, 144400, 144500, 144600, 144700, 144800, 144900, 145000, 145100, 145200, 145300, 145400, 145500, 145600, 145700, 145800, 145900, 146000, 146100, 146200, 146300, 146400, 146500, 146600, 146700, 146800, 146900, 147000, 147100, 147200, 147300, 147400, 147500, 147600, 147700, 147800, 147900, 148000, 148100, 148200, 148300, 148400, 148500, 148600, 148700, 148800, 148900, 149000, 149100, 149200, 149300, 149400, 149500, 149600, 1