

Hart campaigns at MIT

By Janice M. Eisen

Democratic presidential candidate Sen. Gary W. Hart of Colorado, fresh from his upset victory over former Vice President Walter F. Mondale in the New Hampshire primary, attracted an overflow crowd to Kresge auditorium for a rally held Friday afternoon.

An audience of over 1200 people, dotted with balloons reading "Hart in '84" and signs reading "Gary Hart for President," seemed fairly evenly divided between Hart volunteers and MIT students. Several hundred other people crowded the lobby of Kresge but were not admitted because of a lack of room. The rally received national and local press coverage.

Hart received a standing ovation when he arrived on stage, displaying an MIT sweatshirt to the crowd. His speech, which was regularly interrupted by applause, lasted about 15 minutes. Hart did not address substantive policy issues, but rather empha-

sized rallying his supporters for the Massachusetts primary on March 13.

Hart opened his speech by thanking the volunteers who worked for him in the New Hampshire primary, which he referred to as "one of the greatest political upsets in recent American history." He called for "new leadership, new ideas, [and] a new agenda for the future."

The candidate decried "politics as usual," "Reaganomics," and "a militaristic foreign policy based on an unnecessary and dangerous nuclear arms race." He said his campaign supported "civil rights for all" and "absolute equality for the majority of Americans who are women."

Hart made several statements about his stands on environmental policy. In addition to the goals of achieving clean air and water, he said, his administration would work to end acid rain. He would tax producers of toxic waste and clean up toxic waste

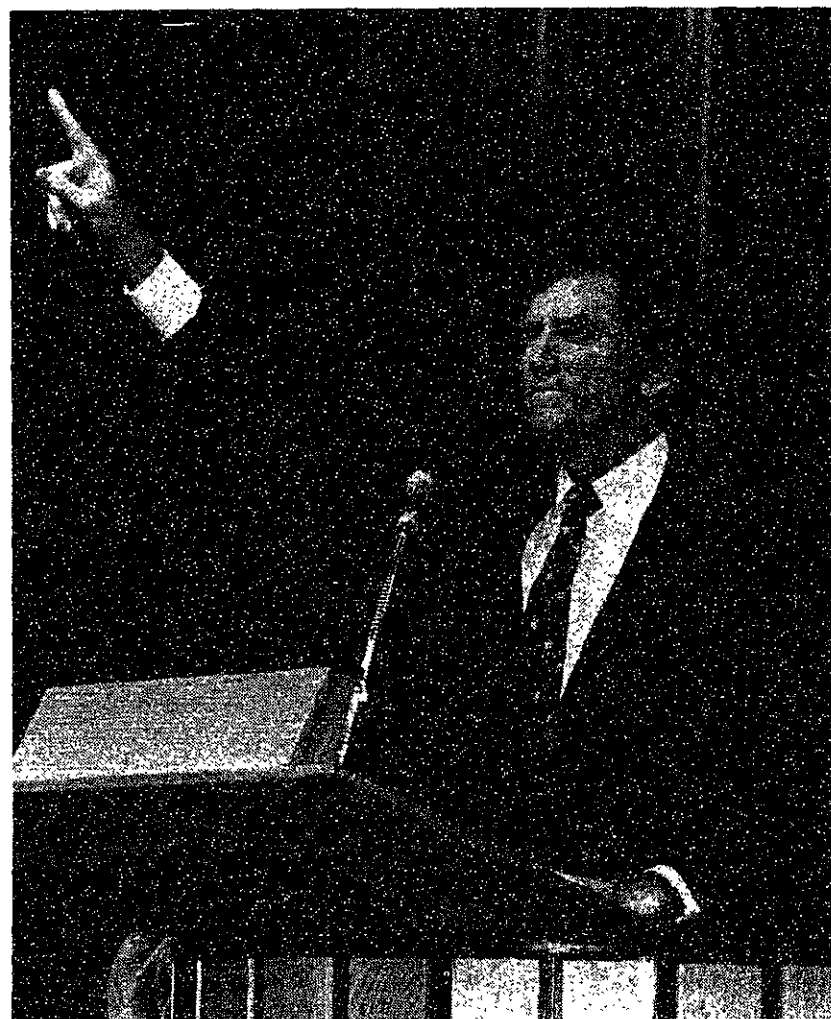
dumps.

President Ronald W. Reagan has undercut "the basic public-education system of this country," Hart said, adding that his administration would make "education and training the number-one domestic priority."

The loudest and most sustained applause came in response to Hart's statement that as president he would "address the real enemy in the Third World, which is not communism — it is poverty." He followed this saying a Hart administration "won't send our sons to die without cause in Lebanon or to serve as bodyguards for dictators in Central America."

"The number-one issue before this country and all mankind," Hart said, "is freezing, halting, stopping, and dramatically reversing the nuclear arms race." He said his first priority once in office would be to begin negotiating a bilateral nuclear freeze with

(Please turn to page 2)



Tech photo by Grant M. Johnson

Democratic presidential candidate Sen. Gary W. Hart of Colorado gives a victory sign to the audience during his speech at Kresge Friday.

Sprint ballot will carry referendum

By Burt S. Kaliski

The Undergraduate Association spring ballot will carry a binding referendum question on changes to the UA constitution, despite earlier claims that the referendum was not approved in time for the ballot.

The UA General Assembly had rejected at a Feb. 16 meeting a motion by UA President Michael P. Witt '84 to include the referendum on the ballot.

The deadline for placing advisory questions on the spring ballot, according to the UA election code, is "the same as the deadline for candidate's petitions," — "noon of the third Friday of the term," which was Feb. 24.

The election code restricts non-binding referendums to those approved "by a one-third vote of the General Assembly or by petition to the Election Commission by 5 percent of the members of

the Undergraduate Association."

The spring ballot will carry a non-binding referendum question concerning pornographic films on campus.

Binding referendums, however, "may be held at the regular election or at a special election called by the Election Commission," the election code states. Neither a petition nor General Assembly approval is explicitly required.

Witt is seeking the endorsement of 10 percent of the undergraduates for the binding referendum.

The referendum seeks the formation of a steering committee of representatives to Institute committees; creation of a joint board of the UA Association of Student Activities and the Graduate Student Council; and changes in the composition of the General Assembly [Sidebar, page 13].

Hauke Kite-Powell '86, chairman of the UA Election Commission, has agreed to put the referendum on the ballot, Witt said, given a "reasonable amount of time to get it printed."

But Kip Dee Kuntz '85, a member of the Election Commission, opposes the inclusion of the referendum. The election code allows binding referendums without General Assembly approval or a petition, he admitted. The dissimilarity between regulations for binding and non-binding referendums is unfortunate, he said.

The spring ballot will also include elections of UA and class offices. David M. Libby '85 and Stephanie L. Scheidler '85 are running for president and vice president.

Witt began his year in office, with promises to "scrap the General Assembly." Some GA representatives were concerned the referendum would not make the ballot, Witt said, and he pursued another method for its approval.

"I considered . . . allowing [Libby] to put it up another time," he said. He decided instead to attempt to change the UA constitution before his term expires April 5.

McGovern speaks at press conference in South Station

By Ronald W. Norman

"John F. Kennedy made a commitment to put an American on the moon by the end of the 1960s," George S. McGovern, former senator from South Dakota and Democratic presidential candidate, said Friday at South Station. "My commitment is to have the best rail system . . . in the world by the year 2000."

"Instead of spending \$40 billion on the MX [missile] . . . or B1 [bomber], we should invest it in a first-rate system of railway transportation," he said.

The United States could build 26,000 miles of "high-speed" train tracks for one-half the price of the MX missile, McGovern said, and one million people could be employed in rail system "operation and construction," he added.

The 1984 election "is more profound" than the one in 1972, he said. McGovern was the Democratic nominee for president in that election.

In 1972 the issue was "only Vietnam, where we weren't in a position for nuclear war. . . . Now we are," McGovern said.

"There's no one who has proposed a reduction in the military but McGovern," McGovern said. "If we don't resolve the nuclear war issue, we may not be around in 1988."

McGovern has said he would appoint Chrysler Chairman Lee A. Iacocca to be the secretary of defense if McGovern were elected.

"Give us a lean, tough, dependable defense force, and do it for 25 percent less money," would be McGovern's message to Iacocca, he said.

"I would call a halt to all US military operations in Central America," McGovern said, adding that the problem there is not necessarily military.

Last Tuesday's New Hampshire Democratic presidential primary victory by Sen. Gary W. Hart of Colorado "opened up the field for any of the five candidates," he said.

"The last time anyone [talked about a two-man race] was Mondale and Glenn," McGovern said in response to a question concerning whether the campaign had become a race between Hart

and former Vice President Walter F. Mondale.

"I don't think newness in and by itself has any moral content," McGovern said, replying to a question about Hart's campaign. "If you get a new suit it's an asset. If you get a new disease . . ."

"We want to know what the

new ideas are — we want to know the principles and ideas behind them," he added.

McGovern said a "bad" loss in the Massachusetts primary Mar. 13 "would mean I got out" of the campaign. He added that he would support the Democratic nominee if he dropped out.



Tech photo by Henry Wu

Democratic presidential candidate George S. McGovern.

SCC withdraws funding for fraternity casino boat cruise

By Thomas T. Huang

The Student Center Committee voted 13-1-3 to withdraw its support of the Spring Weekend Casino Boat Cruise, co-sponsored with Sigma Phi Epsilon, in its meeting Sunday night.

The withdrawal came, in part, from "inaction by and difficulties in communicating with . . . Sigma Phi Epsilon fraternity," as well as the strong possibility the fraternity will not get a casino license, according to a committee press release.

The SCC release also described "a risk that the whole cruise [would] be terminated immediately if one minor [was] found drinking."

Arunas A. Chesonis '84, the fraternity cruise coordinator, refused to comment on the matter.

Chesonis told Micheline K. Fradd '85, SCC liaison to Sigma Phi Epsilon, on Sunday night there was a high possibility the fraternity would not be able to

obtain a casino license, Fradd said.

The fraternity needs a Boston casino license to use casino equipment on the boat, Mark Brine '85, committee treasurer, said after the meeting.

The Student Center Committee's \$2000 check, which was to be a deposit on the boat, is in his drawer, stamped "void," Brine said.

Fradd said, "The risk at this time is too great for the money." Ticket prices would have ranged from \$7 to \$10 with each drink an additional \$1.50 to \$3.00.

"Until the past week, they've made no effort to contact us" since the committee first approved the funding in November, Brine said.

"We felt something [which was not] open to the whole community would not be good," Fradd said. She said she felt the communication problem was not the major issue in the decision.

Fradd said the fraternity, when told of the decision, could not agree with some of the issues the committee raised. "There was a difference of opinion."

Suzanne Greene '84, another SCC liaison to the fraternity, said Sigma Phi Epsilon should have contacted the MIT Social Council, because it sponsors most of the events during Spring Weekend.

"The Social Council doesn't have a whole lot of money," Brine said. "Due to apathy and poor organization, student government is all a mess."

"The mess is why [Sigma Phi Epsilon] came to us," Greene said. The fraternity felt it would get better results from the Student Center Committee, she explained.

Fradd said she still believes if Sigma Phi Epsilon came up "with a more coherent plan," the committee may begin discussions again.

Hart gives speech at rally in Kresge



Tech photo by Alice Giubellini

Sen. Gary W. Hart of Colorado waves to the audience in Kresge on Friday.

(Continued from page 2)

Hart also said he would unilaterally cancel production of the MX missile and the B1 bomber and declare a six-month moratorium on testing of nuclear weapons while negotiating a "multilateral, comprehensive" ban on all such testing with every country that has a nuclear capability.

He added his intention to bar "the exportation of the nuclear arms race into space" and to "freeze plutonium production as a means of ending nuclear proliferation." He said he would work to decrease the probability of a

nuclear war starting due to an accident by inviting the Soviet Union to join the United States in joint crisis control and security measures.

Hart announced he intends "to challenge the Soviet Union... to join [the United States]... in a crusade to end hunger among the children of the human race." He finished his speech with another call to action for his volunteers. He left the stage to another standing ovation.

Hart then spoke briefly to those who had remained in the lobby, reiterating the main points of his speech.

Reforms in US nuclear industry recommended

By Kevin D. Hurst

A recent study by the MIT Department of Nuclear Engineering has suggested technological improvements to revive the nation's ailing nuclear power industry.

"There is a need to make the nuclear option more attractive and more easily accepted than the present technology," said Richard K. Lester '79, associate professor in the Department of Nuclear Engineering and one of the researchers.

The results of the study were compiled in a report titled *Nuclear Power Plant Innovation for the 1990s: A Preliminary Assessment*.

Innovative nuclear power reactors which are less costly to build, easier to operate, and less likely to undergo costly failures are technologically within reach, the report stated.

Almost ten years have passed since an American utility company placed an order for a nuclear plant that it did not later cancel, and according to the report, "it is highly unlikely that any order for new nuclear plants will be placed by US utilities before the end of the decade."

The report advocates changes such as simplifying reactor designs, building modular reactors in centralized factories, and standardizing reactor designs.

Most US fission reactors are light water reactors in which ordinary water cools and controls the reactor core. Originally developed to power submarines, the modern design is much more complex than its predecessors.

High temperature gas-cooled reactors may be a more attractive alternative, the study said. This design uses inert helium gas to transfer heat from the core to the boilers and turbines.

The gas-cooled reactor could be a smaller, modular design installed on a fixed schedule and budget. This would ease the problems of funding and delays that most of the 48 US plants now in construction are facing.

The gas-cooled design would also be easier to construct and maintain, and allows about 50 times less radiation exposure in repairs, according to Professor Lawrence M. Lidsky '62, a member of the research group.

Many of the worst problems facing the nuclear industry, however, result from management problems, according to Lester.

Utility companies "committed to building nuclear plants, don't have the skills or capabilities available," Lester said.

"There must be a combination of strengthening the [managing] organizations... and efforts to improve the technology. If the nuclear option is again to become attractive," he continued.

The report is only a preliminary basis for research on nuclear plant technology that will last for the rest of the decade, according to Lidsky.

"We have a strong suspicion that we are on to something good," he said. "Now we're trying to actually do it."

All of the new technology the department will research could be in operation by the mid-1990's, according to Lidsky. "If it has not already been started it is too far in the future."

Evolutionary improvements to existing light water reactors will also be researched by the department, the report stated.

"Without change, there is a good chance that nuclear power will not be a competitive option," Lester said. "If nothing is done, the future for the industry is quite bleak."

Other participants in the study were Associate Professor Michael W. Golay and Professors Michael J. Driscoll '64, David D. Lanning '63, Norman C. Rasmussen '56 and Neil E. Todreas '66, head of the Department of Nuclear Engineering.

Support for the research was provided by a grant from the MIT Sloan Fund, with supplemental support from the MIT School of Engineering.

TEXTS FROM TECH

Wednesday, March 7

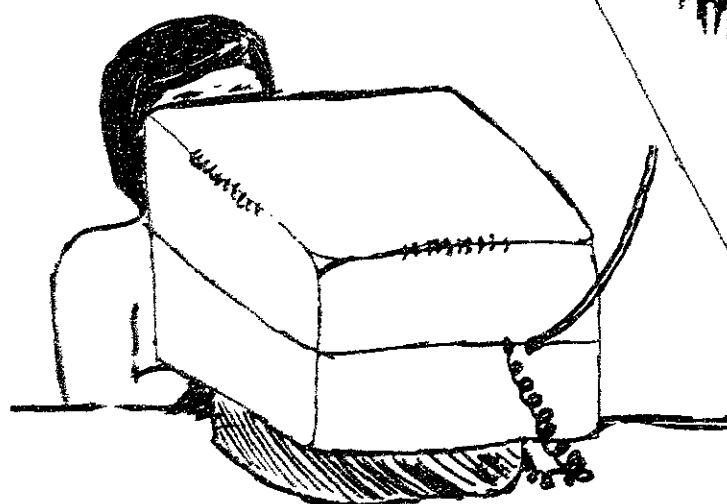
Prof. Robert Weinberg, the perspective of a biologist

Room 37-252 12:00pm-1:pm

New interpretation of the book of Genesis by distinguished representatives of the MIT faculty

Sponsored by MIT Hillel For information call 253-2982

Bruce did all his 6.001 problem sets



John joined The Tech

Have the luck of the Irish. Instantly.

Introducing Cafe Irish Creme.

Smooth and satisfying, it blends coffee with the rich flavor of Irish creme for a taste that will bring out the Irish in everyone.



30¢

MANUFACTURER'S COUPON. OFFER EXPIRES 6/30/84

30¢

Introducing Cafe Irish Creme.



This coupon good only on purchase of product indicated. Any other use constitutes fraud. COUPON NOT TRANSFERABLE. LIMIT-ONE COUPON PER PURCHASE. To the retailer: GFC will reimburse you for the face value of this coupon plus 5¢ if submitted in compliance with GFC Redemption Policy C-1, incorporated herein by reference. Valid only if redeemed by retail distributors of our merchandise or anyone specifically authorized by GFC. Cash value 1/20¢. Mail to General Foods Corporation, P.O. Box 103, Kankakee, IL 60902.



© General Foods Corporation 1984

Available at: MIT Coop

news roundup

World

Iraq claims 50,000 Iranians dead — Iraqi officials claim over 50,000 Iranians have died in the last ten days of fighting on the plains near Basra, Iraq. The front in this latest offensive is a marshy eight-mile-wide strip vital to Iraq's access to the Persian Gulf. Hundreds of Soviet- and Japanese- made heavy vehicles accompanied armor to the front line. Iran claimed to have "completely destroyed" an Iraqi infantry brigade and "smashed" 70 percent of an Iraqi armored brigade. The fighting lasted 72 hours.

Nation

Hart beats Mondale Down East — Sen. Gary W. Hart of Colorado defeated former Vice President Walter F. Mondale in the Maine Democratic caucuses Sunday. Hart received 50 percent of the vote, while Mondale received a close 44 percent. Former South Dakota Sen. George S. McGovern received 1 percent, while the Rev. Jesse L. Jackson and Sen. John H. Glenn of Ohio together took less than 1 percent. All the candidates were invited to speak at an environmental forum sponsored by Greenpeace New England to be held tonight at the Boston Park Plaza Hotel. The Massachusetts Democratic primary will be held next Tuesday.

Cities can erect nativity scenes — The Supreme Court ruled yesterday that municipalities can finance nativity scenes on public land. The 5-4 majority found that Christmas is a secular holiday as well as a religious one, and can be supported with public funds. The city of Pawtucket, R. I. successfully defended a suit alleging it had violated the First Amendment separation of church and state.

Medical degrees for sale — Federal and New York State officials have started investigations of believed widespread trafficking in fraudulent medical credentials. Up to \$50,000 is paid for the false documents, primarily from Caribbean medical schools. The California State Board of Medical Quality Assurance is currently investigating over 2500 individuals with the suspicious credentials. Organizations in 15 other states are conducting similar investigations.

Justice Department charges reverse discrimination — The Justice Department is representing ten white police officers and firefighters in Birmingham, Ala. who say their rights are being denied by an affirmative action program. The Justice Department endorsed the program in 1981, but has since changed sides on the issue. The Reagan administration is opposed to the numerical hiring goals and quotas.

Weather

More of the same — Rain is expected on and off this morning. Mostly cloudy skies will prevail this afternoon, with temperatures generally below freezing but highs in the low 40's. Tomorrow will be brisk and chilly with occasional sunshine and a high near 32.

Scott I. Chase

COMPUTER USERS: With us, you can get savings and support.

	list price	your cost
Okidata ML 92P 160 cps dot matrix	\$599	\$450
Star Micronics Radix 10 200 cps dot matrix	\$849	\$675
Juki 1600P 18 cps letter quality	\$599	\$470
Qume Sprint 1155+ 55 cps letter quality	\$1,895	\$1,575
Anchor Automation Mark XII 110/300/1200 baud modem	\$399	\$297

Similar savings on NEC, Silver Reed, Juki, and more!

TO DISCUSS YOUR PRINTER NEEDS, CALL

769-2250

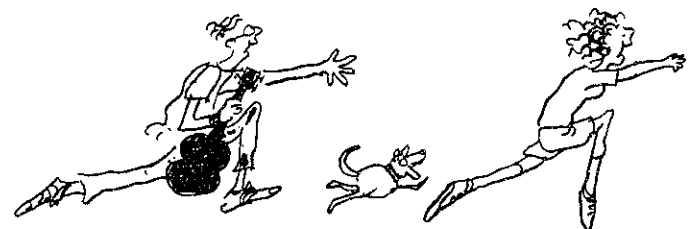
PENGUIN PERIPHERALS

771 Neponset Street * Norwood, MA

A Full Support Computer Printer Dealer

Mastercard and Visa Accepted

"FINDING THE PERFECT (JEWISH) MATE: A JEWISH MATCHMAKER'S SAGA"



With Anne Waldoks

Director, Jewish Introductions

Friday, March 9, 9:00 pm

Ashdown House, West Dining Room

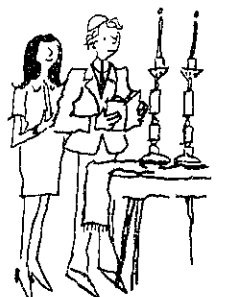
ALL-HILLEL SHABBAT DINNER

7:00 pm Ashdown House,
West Dining Room

Paid Reservations due March 6

\$6.25 with validine or cash
MIT Hillel, 312 Memorial Dr. 253-2982

Reform, Conservative/Reform & Orthodox
Shabbat Services at 5:30 pm
Call for locations



"Gynecological exams leave me cold."

Many women find the whole business of getting a gynecological exam incredibly distasteful. But it doesn't have to be. At Preterm you can discuss all your feelings and concerns with one of our counselors. You can request a woman doctor. That's how we're different.

We treat your body like a human being.
Preterm. 738-6210.

preterm

The most experienced
reproductive health care center
in the Northeast.
1842 Beacon Street
Brookline, MA 02146
A licensed non-profit health care facility
Teen Counseling

Travel Trivia

What do Albert Einstein and Raymond
& Whitcomb Co. have in common?

ANSWER:
Both were born in 1879.



*Raymond & Whitcomb has been serving
the MIT community for over 30 years.

RAYMOND & WHITCOMB CO.

21 School Street, Boston, MA 02108 617-227-3000
First in Travel Since 1879

Approved MIT Travel Agency. MIT Ext #s 3-4438 & 3-4439

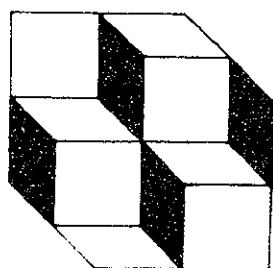
STUDENT AIRFARES

ROUNDTrip FROM	
LONDON	\$348
PARIS	\$378
MADRID	\$399
LUXEMBURG	\$469
AMSTERDAM	\$448
ZURICH	\$398
STOCKHOLM	\$350
CARACAS	\$293
BOGOTA	\$429

National Student Travel Bureau
of the U.S.A.

266-1926
Council Travel/CIEE

new address
729 Boylston St, suite 201
Boston, Ma 02116



Puzzled by Today's Job Market?

Let COMPUTER SCIENCE AND ENGINEERING
Help You Find a Solution.

- We are Engineers and Computer Scientists ourselves.
- We stay in touch with Engineering and Research Directors.
- We are expert at Client/Company interface.

Positions available in New England and the West Coast include:

- Communications/Networks
- Operating Systems
- CAD/CAM
- Compilers/Interpreters
- Mini/Micro Implementations
- Signal Processing
- Navigation and Guidance
- Engineering Management
- Computer Architecture
- Test Engineering

Contact: Ron Stearn (617) 246-4444
(617) 547-1143 (after six)

or submit resume to:
Computer Science and Engineering
15 Lakeside Office Park
Wakefield, Massachusetts 01880
Client companies assume all fees

opinion

Editorial

Think hard before using illegal drugs

The recent death of Keith T. Ennis '84 is a tragic example of what can happen when people use illegal drugs carelessly. Ennis died of oxygen deprivation after inhaling nitrous oxide while alone in a locked room.

A person's decision whether or not to use illegal drugs is based upon the accumulation of years of growth and many experiences. If you have decided to experiment with illegal drugs, no matter what anyone says about them, you are probably not going to change your mind now. The important point is this: If you decide to use illegal drugs, be smart about it. Know what you are taking, what the possible effects are, and above all, never take illegal drugs while alone.

The horror stories about drug abuse are true. Great tragedies — like Ennis' death — have occurred due to drug usage, and will continue to occur. No one is too smart to be free from these consequences. One day "the other guy" might be you.

If Ennis' death convinces just one person to think intelligently before making such an important choice, it will have provided a very important, though tragic, lesson about life and death.



CBS NEWS IS NOW PROJECTING GEORGE CUSTER THE EASY WINNER HERE AT THE LITTLE BIG HORN. BACK TO YOU, DAN...

Robert E. Malchman

Letter from the editor

When you look at this page in next Friday's issue of *The Tech*, you'll notice a slight difference — my name won't be there. I resigned as editor in chief, effective at noon tomorrow.

In my four months as editor, I have tried to explain what *The Tech* does and why it does it that way. I have tried to communicate what I think a newspaper is and what it should be, and how I think *The Tech* fits into the MIT community. I hope my successor continues this effort.

My leaving was not at all prompted by the headline incident I wrote about last issue. Rather, there were a number of reasons. I submitted my resignation to the Managing Board of *The Tech* two weeks ago, along with amendments to its constitution and bylaws. I resigned so these changes could be considered on their merits, without involving personalities.

The Tech's highest authority is its board of directors. Acting for that board on a day-to-day basis is the Executive Board — the four names you see at the top of the masthead every issue.

Individually after that board comes the chairman, who is the leader of the organization; the editor in chief, who is responsible for the words and pictures; the managing editor, who is responsible for the style and production of the newspaper; and the business manager, who is, well, responsible for the business. My objections to that structure, briefly, are that a committee system is bad for a newspaper, and that the style of the newspaper

influences its content, and should be within the purview of the editor in chief.

Committees are good for most organizations — like the Undergraduate Association — because they can be representative of a varied constituency. A newspaper, though, has a person who must be personally responsible for its content.

No one except the publisher should be able to overrule the editor or business manager. At *The Tech* now, the production department and the business office have a say in what stories run; the print side has a say in what the advertising rates are, and so on. This system goes against the separation of departments existing at virtually every other newspaper in the United States.

Those newspapers respect the integrity of print. Suppose an editor decided to run an editorial critical of one of the paper's advertisers. The business manager would probably be opposed. If he had a say in print decisions, controversial topics might not be addressed by the newspaper. There is a conflict of interest.

Marshall McLuhan argued very convincingly that the medium is the message. Where an editor places a story or picture, what kind of graphics and logos he uses, and all other aspects of appearance affect the content of the news. One person — not two, and not a committee — must have final authority to determine what the newspaper says and how it says it.

The editor of *The Tech* does not have the authority to say

what stories go where in each issue. If the managing editor decided to run this column upside-down on page 20 next to the pistol story, I could not do anything about it individually.

If the board of directors does not like how the editor does his job, it should offer suggestions or remove him — not overrule him. No one can do the job of editor if he must split his authority and have a committee of people, some with no background in or knowledge of news, over him.

Barry S. Surman '84, the previous editor in chief, resigned in November for much the same reasons. He warned me not to take the job, but I didn't listen. I thought the problems he described might be due to conflicting personalities and that a new volume of *The Tech* would see the cessation of conflict.

I was wrong. I proposed several amendments and resigned so debate would not become one of whether or not to give me more power. *The Tech's* board rejected my amendments, however, believing the problem to be one of conflicting personalities. I hope my successor has more luck — or skill — than Surman and I did. I fear he will not.

For two years I've been a pretty loud voice on this campus. I've shot off my mouth — or my keyboard — about everything from representative student government to being a fat jock. My resignation from *The Tech* will not alter that situation. I'll write, now and then, and I'll be around in other ways. Till then, see you in the funny papers.

TheTech

Volume 104, Number 8

Tuesday, March 6, 1984

Chairman Martin Dickau '85
Editor in Chief Robert E. Malchman '85
Managing Editor Scott I. Chase '85
Business Manager Paul G. Gabuzda '85

News Editors Janice M. Eisen '85
 Thomas T. Huang '86
 Ronald W. Norman '86
 Ellen L. Spero '86

Night Editors Andrew S. Gerber '87
 Gregory D. Troxel '87

Opinion Editor Daniel J. Crean '85

Features Editor Diana ben-Aaron '85

Photo Editors P. Paul Hsu '86
 Henry Wu '86

Arts Editor Drew Blakeman '85

Advertising Manager Robert W. O'Rourke '85

Contributing Editors Charles P. Brown '84
 Burt S. Kaliski '84
 David G. Shaw '84
 Barry S. Surman '84
 John J. Ying '84
 Simson L. Garfinkel '85
 Matthew W. Giamporcaro '85
 Omar S. Valerio '85

Senior Editors V. Michael Bove G
 Keith I. Tognoni '84
 Tony Zamparutti '84

Indexing Project Representative A. David Boccuti '79

Advisor Edwin Diamond

OPINION STAFF

Columnists: Peter Merkle '83, Mark Templer '84, Erik A. Devereux '85, Eric Sven Ristad '85, Ken Meltsner G, Joseph J. Romm G.

PHOTOGRAPHY STAFF

Dan G. Dobryn '84, Tim Huie '84, Michael Reese '84, Andrew Wold '84, Bill Coderre '85, Rohan St.D. Khaleel '85, Touissant L. Myricks '85, Winston I. Smith '85, Steven H. Wheatman '86, Stephen P. Berczuk '87, Joseph T. LaRocca '87, Stephen A. Brobst G, Ricky Marshall G, Robert Winters G; **Darkroom Manager:** Omar S. Valerio '85.

ARTS STAFF

Bill Bryant '83, Michael Battat '84, Mark DeCew '84, Mark Pundurs '84, Carl Bauer '85, Stephen Huntley '85, John Stein '85.

FEATURES STAFF

Cartoonists: Geoff Baskir '78, Carol Yao '85.

BUSINESS STAFF

Advertising Accounts Manager: Dave Ramahi '86; **Production Accounts Manager:** Mark Brine '85; **Circulation Manager:** Lawrence Poletti '85; **Distribution Manager:** Matt Garrity '85; **Associate Advertising Manager:** Michael Kardos '86

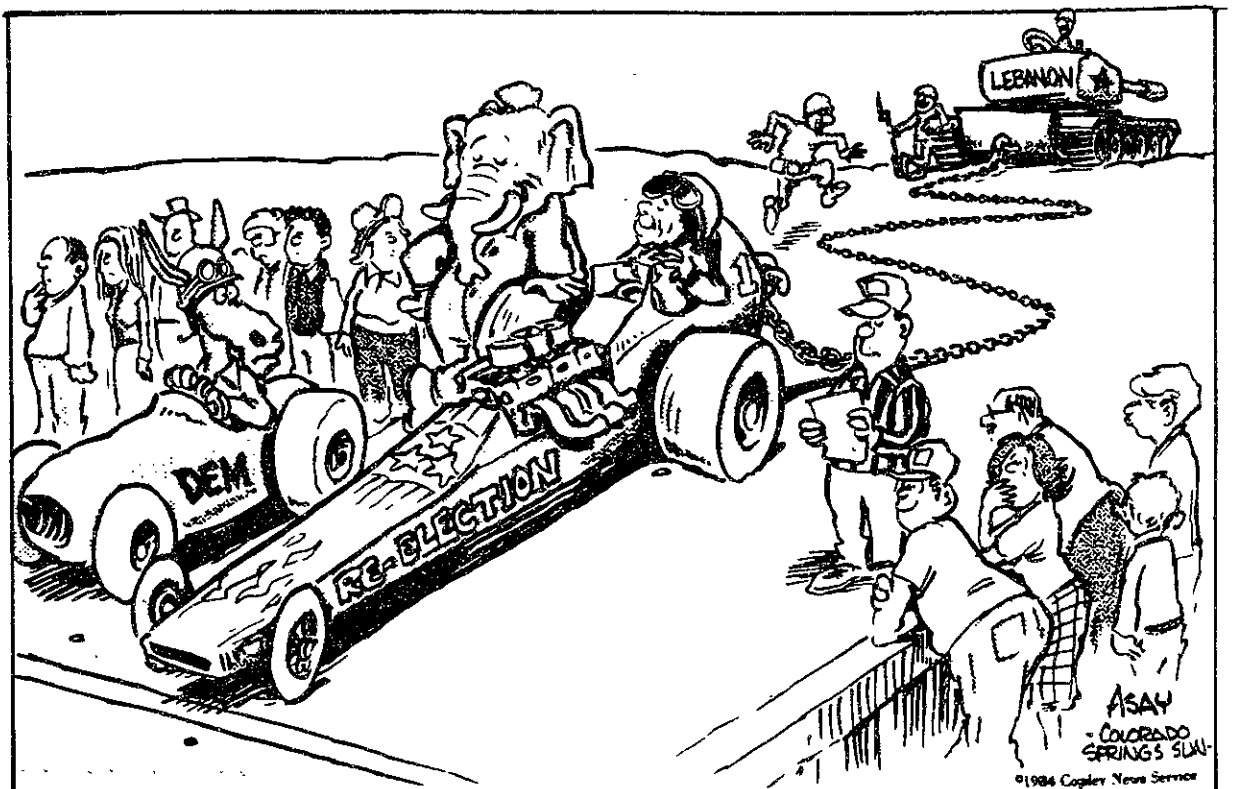
PRODUCTION STAFF

Associate Night Editor: Ronald E. Becker '87; **Staff:** Bill Coderre '85, Daniel J. Weidman '85, Ron Bloom '86, Carl A. LaCombe '86, Mary C. Ystuenta '86, Kathleen M. O'Connell '87; **Production Manager:** A. S. Gorin '84; **Typist:** Virginia K. Chang '85.

PRODUCTION STAFF FOR THIS ISSUE

Night Editor: Gregory D. Troxel '87
Associate Night Editor: Scott I. Chase '85
Staff: Drew Blakeman '85, Amy S. Gorin '85, Robert E. Malchman '85, Carl A. LaCombe '86, Ronald E. Becker '87, Andrew S. Gerber '87, John F. Pitrelli G.

The Tech (ISSN 0148-9607) is published twice weekly during the academic year (except during MIT vacations), weekly during January, and tri-weekly during the summer for \$12.00 per year Third Class by *The Tech*, 84 Massachusetts Ave. Room W20-483, Cambridge, MA 02139. Third Class postage paid at Boston, MA. Non-Profit Org. Permit No. 59720. **POSTMASTER:** Please send all address changes to our mailing address: *The Tech*, PO Box 29, MIT Branch, Cambridge, MA 02139. Telephone: (617) 253-1541. Advertising, subscription, and typesetting rates available. Entire contents © 1984 *The Tech*. Printed by Charles River Publishing, Inc.



opinion

Column/Mark Templer

Federal excesses waste tax money

The presidential primary sweepstakes is now in full swing, and Democratic candidates are falling over one another to criticize the Reagan administration. The Democratic candidates particularly enjoy lambasting the president about budget deficits, which now hover around \$200 billion and promise to stay there indefinitely unless action is taken.

President Ronald W. Reagan, of course, has been concerned about deficits for years. He supports a plan that would cut government spending by \$424 billion over the next three years, without cutting essential services for the poor. This plan is the "President's Private Sector Survey on Cost Control," a report produced by a two-year-old commission headed by Peter Grace.

The Grace Commission is composed of 160 top executives of US companies. They have approached the government's budget with a business manager's attitude. They have worked to find the government waste, fraud, and abuse which Reagan talked about and at which many Democrats laughed.

The Grace Commission did find waste, fraud, and abuse in federal spending. The commission has come up with 2478 examples and detailed them in 23,000 pages of reports. Its work has been completely paid for by about \$80 million in private donations of manpower, equipment, supplies, and cash. The commission's work was serious and precise, and it should make people who whine about the deficit pause before they blame Reagan.

One of the biggest problems identified by the commission was gross inefficiency. It costs the Army \$4.20 to issue a payroll check, while it costs the private sector only about a dollar. This costs taxpayers \$40 million a year. The Veteran's Administration pays over \$100 to process one medical claim, versus about \$5 in the private sector. The Department of Energy has one supervisor for every three workers, twice as many as the rest of government. Postal service workers call in sick over 60 percent more often than private sector workers, costing taxpayers over \$650 million a year. These are just four examples out of 2478.

Another government problem is in data processing. The Army, for example, does not know how many computers it has, where they are, or how much they cost. The average age of computers used by government is twice that of those used by business. Government computers are not networked, and about half of them are so old that the manufacturers no longer service them.

The computers are also used ineffectively. The Internal Revenue Service, for example, has processed only 80 percent of the 1978 tax returns so far. Delinquent tax accounts are estimated at over \$23 billion, but there is no way to know the exact figure until the computers catch up. The Grace Commission estimated that \$20 billion could be saved over three years just by standardizing and upgrading government computer systems. Another \$60 billion could be saved if the government simply used established private-sector data processing techniques.

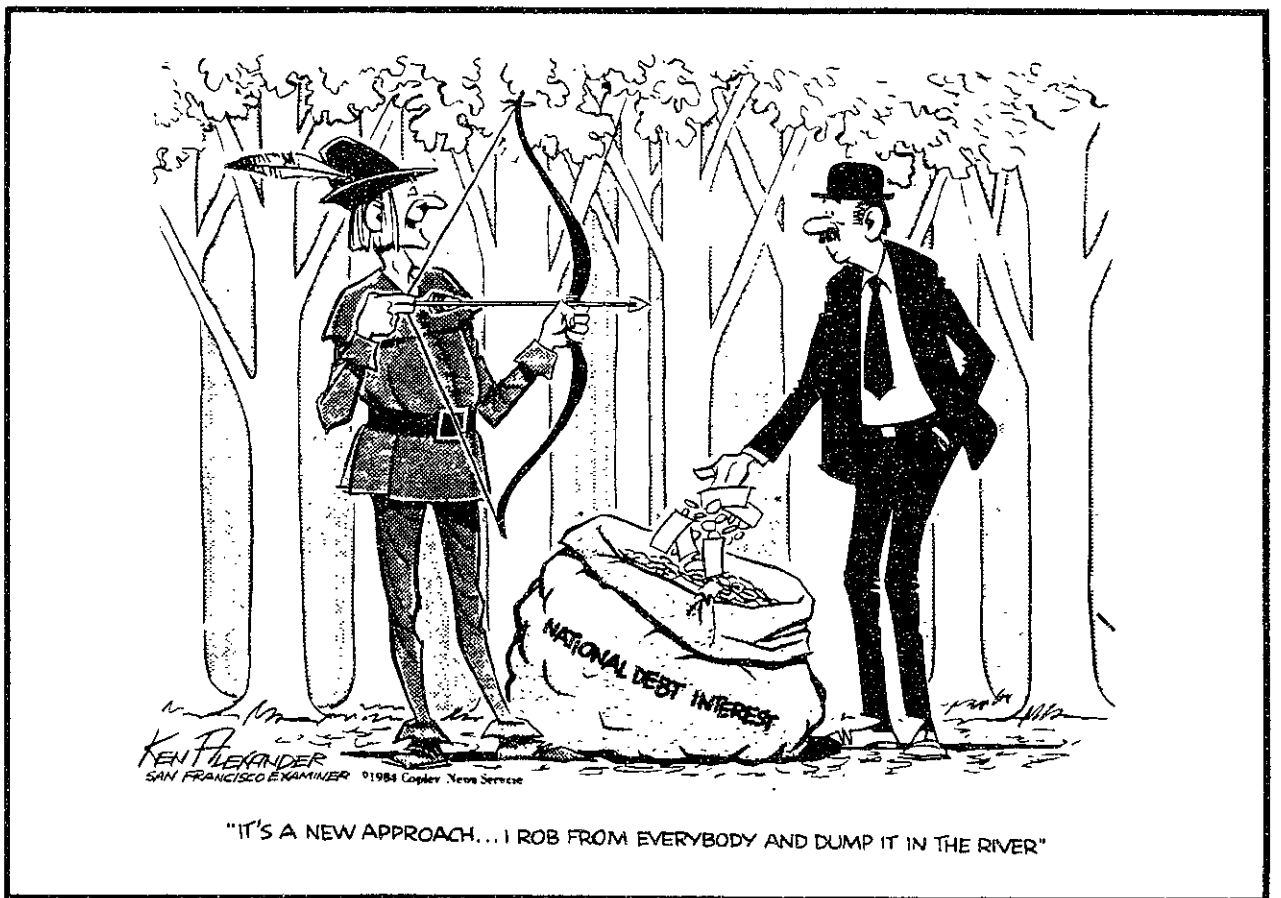
Procurement is another mas-

sive source of waste. In 1983, the Navy paid \$100 each for aircraft simulator parts that retail for under a dime. It paid \$511 each for lightbulbs that retail for 60 cents. The Environmental Protection Agency pays \$100 per day to rent an office trailer which others rent for \$100 per week. In all, the Grace Commission identified \$28 billion in procurement savings over the next three years if the government instituted private sector purchasing techniques.

Federal employees also take a free ride at taxpayers expense. They get 35 percent more vacation time and 33 percent higher health benefits than their private sector counterparts. In 1980, 6.3 percent of federal employees filed on-the-job injury claims, compared with 1.7 percent of private sector employees. Government pensions are twice as costly as private pensions, and the retirement age is as low as 55 for civil service workers and 40 for military personnel. The Grace Commission estimated the government could save \$58 billion over three years if it simply treated federal employees the same as the private sector treats its employees.

The examples of government inefficiency and mismanagement go on and on, but the point is clear. There is a lot of waste. Unfortunately, most of this waste can be eliminated only through legislative action, and the special interests who benefit from federal largesse scream when their programs are attacked. Consequently, Congress will probably ignore the Grace Commission's.

Political candidates will continue to yip and yap about the deficit, shaking their heads in disapproval. They ignore the essence of the deficit problem to curry favor with special interests and the media. So as the circus of political rhetoric continues, the government gravy train will keep rolling down the tracks, right over the taxpayers. All the while, the chorus of presidential candidates will sing, "It's Reagan's fault."



Simson L. Garfinkel

Mentality has trickled down

It is not my custom to reply to letters about my columns; generally, my columns say all that I want to say on a particular subject. I do make exceptions, of course.

The Tech has received so many letters, and I have had so many conversations with students around campus about my last column, "Gun mentality bad," [The Tech, Feb. 24] that I have decided to respond to all criticism at once and in one place.

The first question I have been asked is about what was I. The

column was not just about cabbies carrying guns. Neither was it just about nuclear war and Reagan, nor even about crime in Philadelphia.

The column was about a mentality in our leaders which lessens the value of human life. These feelings are directed primarily toward their enemies. The thesis of the column was that this mentality has trickled down into our society, and has established emotional patterns of fear and aggression among our people.

I have been called a racist and

a bigot because of my alleged stereotyping of taxi drivers. Three days before my column was published, an editorial cartoon appeared in *The Boston Globe*. The cartoon depicted the same "smelly, slimy, cigar-smoking, gun-slinging cabby" that I mentioned in my column. In fact, *The Globe's* cartoon also depicted the cabby with machine gun rounds, a knife, and a hand grenade.

How is it that one person can depict cabby acceptably in a car-
(Please turn to page 6)

feedback

Criticizes Zionists

To the Editor:

As one of nearly 400 peace activists that attended the Middle East conference here at MIT last weekend, I was greatly impressed by the unprecedented degree of concern over the Arab-Israeli conflict demonstrated by representatives of disarmament, feminist, and anti-interventionist groups from around the country. It was disturbing that a small group, led by the MIT Zionist Alliance, found such a gathering

so objectionable.

Despite the fact that most of the conference's participants (and virtually all of the speakers) supported Israel's right to exist and members of a number of Zionist groups were in attendance, pamphlets distributed by the protestors labeled the conference "anti-Israel." Despite the fact that a variety of opinions were expressed and the conference's literature tables included materials ranging from groups supporting

moderate Israelis to groups supporting radical Palestinians, this same pamphlet labeled the conference "one-sided." Despite the participation of a number of Israelis, the protestors claimed that the weekend "did not present an Israeli view."

While there was no official Israeli view presented, there were no official views of the Palestine Liberation Organization or any Arab government presented either. In fact, Arab governments got their share of critical remarks on a number of occasions.

Fortunately, not all Zionists share the right-wing ideology of the MIT Zionist Alliance and their intolerance for dissenting opinions. Many Zionists, both in Israel and the Diaspora (including MIT), recognize that Israeli security and Palestinian rights are dependent of the attainment of the other and are not mutually exclusive. Many Zionists condemn acts of terrorism by both sides. Many Zionists recognize that both Israeli Jews and Palestinian Arabs have legitimate claims for national self-determination.

It is easy to label peace activists concerned with the Middle East as "anti-Israel," just as it is easy to label peace activists concerned with Central American as "anti-American." However, the world is not that simple, and international conflicts cannot be reduced to zero-sum games. Until people can learn to think for themselves and reject national chauvinism, the efforts of those of us concerned with peace and social justice will continue to be difficult.

Stephen Zunes



opinion

Column was to provoke discussion

(Continued from page 5)

toon, yet another cannot do the same in a column without being called a bigot? The cartooned cabbie was not meant to be taken as stereotype, and no one took it that way. Similarly, there was nothing in the column to indicate that the description was to be taken as a stereotype — yet it has been.

Actually, my description of the cabby was based on fact. I once met a friend from Brandeis University at Logan Airport. We were going to take the train back to her college, but she had too many bags, so we decided to take a taxi instead.

The taxi driver was fat, smelly

and he smoked a cigar. Before I knew it, we were on what turned out to be 30 minutes of smoke-ridden hell.

The other major criticism with my column was that I said the crime rate rose in Philadelphia after Reagan was elected, when in fact the national crime rate fell.

The careful reader will note that I said the perceived crime rate rose, not the actual crime rate. And the perceived crime rate did rise — friends of mine have told me they actually did feel less safe after 1980.

This feeling could have arisen because Frank Rizzo was no longer mayor of Philadelphia. This feeling could also have arisen because violent crime in Phila-

delphia, (or at least the media reporting of violent crime,) increased in those years. Philadelphia was besieged by "wolf packs" — mobs of teenagers who roamed the streets at nights looking for victims.

My columns are not meant as silver-platter answers for the MIT community. They are meant to stimulate discussion and conversation around campus. Unfortunately, these columns have occasionally resulted in personal attacks, although for the most part the discussion arising from them has been beneficial.

I have even been known to reconsider my opinions, on occasion, and I'm always willing to talk with you in the halls.

BALLOT COUNTERS NEEDED

for
President Primary Election
Tuesday evening March 13th.

\$5.00/hr from 8pm until count is completed. Call 876-6784 between noon and six (keep trying). Some election day positions still open at \$65 and \$75.

Must be registered to vote in Cambridge.

feedback

Conference was not anti-Israel

To the Editor:

Ellen L. Spero's responsible report of the exchange between MIT Professor Louis Kampf, faculty advisor to the MIT Commission on the Middle East, and MIT Zionist Alliance president Judith Fleischman [Feb. 28] ruined my day. By egging Fleischman about opposition to the Rev. Jesse L. Jackson, Kampf insinuates that all Zionists affiliate with Meir Kahane's "Jews Against Jackson," a group which has very little support among the American Jewish community. By asking Fleischman to "get yourself some shvartzes," Kampf furthers the notion that Zionists are racists, and particularly anti-black. Kampf even tries to demonstrate his familiarity with

"Jewish bigotry" by using the term "shvartze" (there is certainly no Zionist interpretation associated with this word).

I am shocked to hear such statements made and acknowledged by an MIT professor. Like most Jews, I was offended by Jackson's "Hymie" slurs. As most Jews would be, I am very upset at Kampf's attempt to brand Zionists as bigots via the reference to Jackson and "shvartzes." Finally, recent studies have shown that the vast majority of Jews in America consider themselves to be Zionists. As a result, it is difficult to distinguish the implication of Kampf's remarks from good old fashioned anti-Semitic dogma.

Ed Kaplan G

Column is funny

To the Editor:

In an "Editor's note" to a recent letter from Oren Helbok '87 [Feedback, Feb. 28], the following statement appeared: "The Tech's policy is . . . to permit members of the MIT community to present their views, whether or not those views please that same community."

Just a minute here, guys. Now I enjoyed getting angry at Simson L. Garfinkel's "columns." I enjoyed the fun other people had when they got to flame mercilessly at both him and *The Tech*. I know from speaking with Simson that he is not adversely affected by what his antagonists have to say (at least not superficially, anyway). In these senses, there was nothing wrong with the whole situation. It was pleasant banter, directed at (and from) someone who didn't mind being loud and who was genuinely interested in the reactions his outspokenness evoked. If I had to draw an editorial cartoon depicting the situation, I would have shown a Simson with a Jack-in-a-box, the latter having the words "The MIT student community" scrawled on its side and popping up every now and then with a sneering face every time Simson turned the crank. Behind Simson, however, I would have stenciled in a parental image, looking on in amusement at the antics of the child and his toy. This image would have had *The Tech* as its identifying label. And this is fine. Little children are supposed to play with toys.

The quote I referred to in the first paragraph, however, indicates a change in this picture. It

is as though, by analogy, the parent has come out of the background, taken the toy from the child, and begun playing with it himself.

By calling the running of the Garfinkel "columns" a policy decision, you are playing a dangerous game with the journalistic reputation of *The Tech*. Are you trying to tell us that if any moron handed you an insipid flame about his favorite type of precipitation, you would immediately run it on page three of the next issue? Someone could write you a letter saying, "I think toxic waste is bad. Something should be done about it." and you would flash it across the top of the editorial or feedback page? Face it, people, you are, as a policy, supposed to be exercising discretion over the kinds of things you put in your paper.

By no means am I advocating censorship, though! All I am saying is that when someone writes an opinion that is obviously not meant in the most serious of veins, it should not be included in a serious journalistic effort, unless those responsible for the inclusion recognize it for what it is, namely, a joke.

Also, bear in mind — there is an alternative! If you ever decide not to run a Garfinkel column because it is just too ridiculous, why not send it to *Tool & Die*? Let people laugh with Simson L. Garfinkel instead of at him, for a change.

Dave Saslav '86
Editor-in-chief, *Tool & Die*

FAIRCHILD

The MicroSystems Group is involved in the design, development, fabrication and assembly of devices from digital logic circuits and MOS memories to microprocessors and advanced CCD (charge-coupled device) circuits that act as both image sensors and signal processing devices.

If you're an outstanding Engineering Graduate in Electrical, Chemical or related field, Fairchild can position you on the threshold of one of the most dynamic, future-oriented industries.

The excitement begins the minute you graduate. The challenge lasts a lifetime. Opportunities are available in **Research, Design, Product Engineering, Process Engineering, Advanced Development Engineering, Marketing Engineering, and Production Supervision**. Our MicroSystems Group has locations in New York and California. We can offer you the location most suitable to your professional goals and lifestyle.

Your ideas could create the next revolution in semiconductor technology. Like to hear more about us?

Our company representative will be on your campus
Wednesday, March 21, 1984.

There will be a company presentation on
Tuesday, March 20, 1984.

See your campus placement office to secure an interview and receive information on the location and time of our presentation. We are an equal opportunity employer, m/f.

FAIRCHILD

A Schlumberger Company

MicroSystems Group

Delivers Tomorrow's Performance Today

Electrical Engineering Majors, Computer Science Majors...

**Mentor Graphics Corporation
will be on campus March 19th
for campus interviews. Personal interview
sign-ups are now underway.**

Whether your interest is hardware or software development, software quality assurance or component library development, we can accommodate you at our corporate headquarters in Portland, Oregon or at our division office in Santa Clara.

We're known for our innovation in the development of computer-aided engineering systems for circuit and/or digital systems design. From initial concept through physical implementation, Mentor workstations organize and accelerate the entire product development cycle, paying off in significant gains in engineering productivity and innovation. Computer-aided engineering is the technology of the future. We brought it to this point. You can take it further.

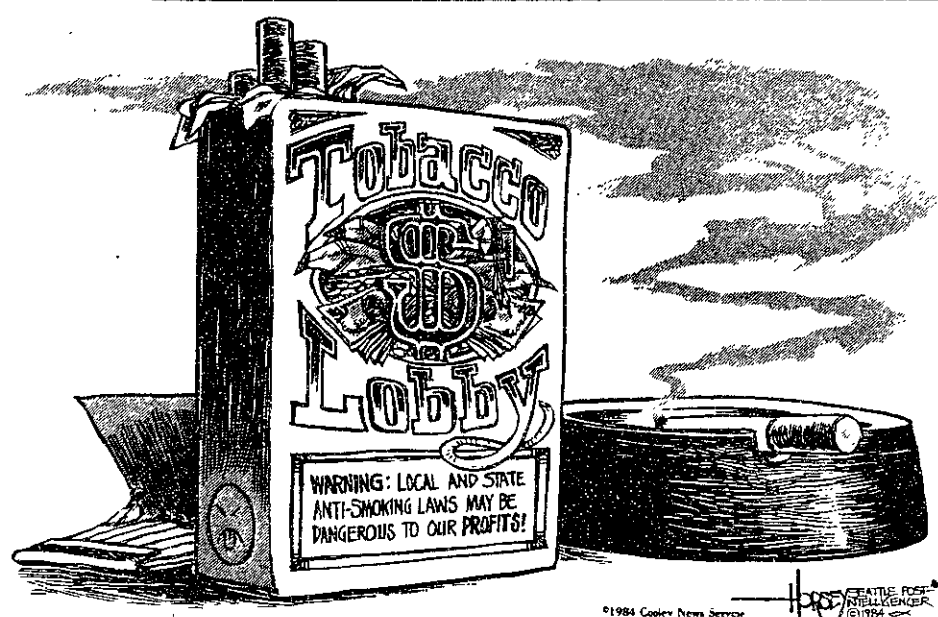
Ours is a highly charged creative environment, rich in challenge and professional growth. In addition to generous salaries and comprehensive benefits, we provide our people with rewards for high achievement and a future worth pursuing. For the complete Mentor Graphics story and the part you can play in it, sign up for your personal interview at the College Placement Office. Your future could be riding on it.

Mentor

Mentor Graphics Corporation
8500 S.W. Creekside Place
Beaverton, Oregon 97005-7191

An Equal Opportunity Employer

opinion



feedback

Disagrees with Saxon

To the Editor:

Last December, in the final *Tech* issue of the term [Dec. 13], an article appeared regarding a proposal from MIT Corporation Chairman David S. Saxon '41 for universal youth service. Saxon is wrong. Unfortunately, his position at MIT is such that his proposal may not be quietly ignored.

One theme Saxon repeatedly harped on is the idea that such service would be in some way "socially valuable." Valuable to whom? Saxon does not say. It is certainly not valuable to the "youth of America" who will have their time taken by such a program. Even Saxon's proposal for educational benefits will not benefit anybody, for the simple reason that free education is impossible. The laboratories will still have to be stocked and the professors will still have to be paid. Remember also that the eight or so million (assuming a two-year obligation) who are volunteered will also have to be recompensed for their labor, even if

to no greater degree than providing food and shelter. The government will pay all these monies, of course, using its traditional method: those who have already served their time will pay for it. I, for one, would rather pay my tuition up front than pay someone else's tuition, feed, clothe, and house him, and pay several government workers' salaries to boot.

Consider the next something Saxon seems to have overlooked entirely: the real world. This I have mentioned already, with regard to the nonfree education he would not provide. This is not, however, Saxon's only error. He claims that many people are badly educated. True enough. But by the time the student leaves high school, the damage is done. And even were it not, forced service will hardly be an effective remedy for educational problems. He claims he is unhappy about military service. That is his right. Of course, I do note a complete absence of facts to justify that con-

cern. Instead, I find this a suggestion for a universal peacetime draft, on in which the draftees would be digging ditches not for the Department of Defense, but for the Department of (forced) Labor.

Could it be that Saxon would prefer to see grown men and women subjugated by the government than freely working in the private sector, or wherever sector they might choose? After all, while there does exist a wartime draft, it is used only in extremity and then only with distaste. Chairman Saxon, on the other hand, would have our Congress appropriate lives as though they were dollars.

Let us not stand idly by.
John K. Burroughs '87

Montgomery Frost Lloyd's Inc. Prescription Opticians Quality Eyewear Since 1870

Prescriptions Filled Quickly and Accurately
Ray-Ban, Vuarnet,
and Porsche Carrera Sunglasses

20% Off On All Prescription Eyewear
With M.I.T. I.D.

Offer not valid with other promotions
Cambridge store only

5 Brattle St. (Harvard Sq.), Cambridge
876-0851

UNIVERSITY TYPEWRITER CO., INC.

Repairs • Sales • Rentals
Electronic, Electric, and Manual Typewriters
New and Used • Quality Ribbons



547-2720 90 Mt. Auburn St.
547-1298 At Harvard Square
Cambridge, MA 02138

CLASS OF 1986



ORDER DATES

Tuesday, March 6th
Wednesday, March 7th 10:00 - 4:00
Thursday, March 8th

MAKE UP DATE

Tuesday, March 13th 10:00 - 4:00

PLACE

Lobby 10



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

"THE BEST CUTS IN BOSTON"

Appt. & Walk-in

231 Newbury Street

536-1605

\$9.00 SPECIAL

w/this add or 15% Disc.

9am-12noon Mon-Thurs

thru 3/28/84



BRODIE AUTO RENTALS INC.
NOW AT KENDALL SQUARE

WE RENT: DODGE COLTS—OMNIS
RABBITS—CITATIONS
STATION WAGONS

AUTOMATIC & STICK SHIFT

•WE FURNISH GAS WITH ALL CARS EXCEPT WAGONS•

HARVARD SQ. KENDALL SQ.
NEAREST TO THE B-SCHOOL NEXT TO LEGAL SEAFOOD
90 MT AUBURN STREET 5 CAMBRIDGE CENTER

491-7600

876-7600

MASTERCARD

VISA

AM EXPRESS

opinion

Guest Column/Mitch Clapp

Hart's victories a good sign

The past week has seen some important goings-on in the world of politics. Canadian Prime Minister Pierre E. Trudeau realized he has overstayed his welcome; Lebanese President Amin Gemayel and Syrian President Hafez Assad got together for talks Wednesday.

Closer to home, Sen. Gary W. Hart upset former Vice President Walter F. Mondale in the New Hampshire Democratic primary last Tuesday. Hart's victory is a good sign because it is inappropriate that the political dialogue over the Democratic Party nomination process should be concluded in late February.

It is bad enough that the voters of New Hampshire and Iowa have proportionally more influence on American politics than the folks in California and New York. They should not be allowed to confer on any candidate the image of invincibility. Mondale tried to run on a "cooperate with the inevitable" platform, and was rewarded with a "cold shower," as he puts it.

Hart, fresh from a second place finish in Iowa, was evidently chosen by the voters of New Hampshire to keep the debate alive for a while.

The smart money is still on Mondale. Out of 1967 delegates needed to nominate, Mondale already has 180 or so, which puts him ahead of his nearest rival, Glenn, by a factor of five. Hart has about 25 delegates, including the ten he picked up north of the border.

Mondale has the backing of

several of the more powerful interest groups in the nation, and we have yet to hear from the states where they are strongest. The Mondale organization is firmly entrenched in the South, where many of the other candidates, especially Hart, have very little name recognition. These factors lead readers of the American political scene to pick the former vice president as the likely winner.

This reasoning does not explain, though, why Mondale did poorly in New Hampshire. He had Hart out-organized at every turn. The AFL-CIO and Mondale's own campaign organization saturated the state with personal calls. They wrote personal (computer-processed) letters to most voters, and Mondale spent six times as much as Hart in New Hampshire.

While Hart had a number of slick TV ads with Star Wars-type graphics, Mondale bought a piece of everything but the test pattern. Given the vast margin in organizational strength that Mondale had, the only reasonable explanation for his "cold shower" was that the voters of New Hampshire took a close look at Walter "Zelig" Mondale and found him wanting.

Soon, the voters will get around to taking a good close look at Hart, and I expect that they will find him wanting, too. Hart's "Youthquake '84" routine is wearing very thin, very fast. He campaigns by telling audiences that he stands for "a new generation of new leadership with

new ideas," while his opponents are "wedded to the failed policies of the past."

There are some problems with this argument. If you live in Iowa, are below the poverty line, or carry a union card, the past looks pretty good. These people are the traditional Democratic constituency, and no serious candidate alienates them. Hart frequently plays the tape about new ideas, but seldom gives an example of a new idea. When he does, it has usually been thought of before.

Take Hart's support of "industrial policy" — cooperation between industry, labor, and government, with the purpose of loading up the world with Esports, Big Macs, and Cabbage Patch dolls in the way that the Japanese stuck us with all those Corollas and sushi bars.

This new idea of his be can traced to Franklin D. Roosevelt's administration. It has become popular again recently, but we can allow a certain amount of fashion in our politics. It is hard to explain why, when industrial policy of the sort described here became a real piece of legislation with the Chrysler bailout, Hart voted against it.

What Hart really means by "a new generation" is "a younger generation." The idea of generational politics, as practiced by poll-taker Pat Cadell, Sen. Joe Biden (D-Del.), and Hart, suggests that the under-50 generation, having gone through the traumas of the '60s and '70s has

(Please turn to page 9)

CHOOSE WHAT THE PROFESSIONAL STUDIOS USE: SCOTCH 3M AUDIO & VIDEO TAPE

Scotch CX-90 Audio Tape features extended sensitivity in both the high and low frequency ranges with normal bias. Package of 3 - 90 minute cassettes. Comp. Value \$8.95

NOW \$5.99

Scotch



Scotch T-120 and L-750 Video tape is the only brand to offer you the exclusive "Static Barrier" for superior clarity and sharp, brilliant color. Choose what the networks prefer from the people who invented videotape — Scotch 3M. Your Choice, T-120 or L-750. Reg. \$10.99

NOW \$8.99 each

Available at Harvard Square, M.I.T. Student Center, Children's Medical Center and One Federal St., Boston. Harvard Square store open Mon.-Sat. 9:20 to 5:45, except Thurs. till 8:30 pm. Coop Charge, Mastercard, Visa and American Express welcome.

HARVARD COOPERATIVE SOCIETY

the Coop

MEGATEST, the company whose demonstrated ability to move revolutionary ideas from the drawing board to the Test floor knows how to turn inspiration into application.

ELECTRONIC DESIGN

Join a design team on the leading edge of multi-processor, real-time computers and ultra-high-speed VLSI systems. Our development projects include:

- High-speed analog design — 100 MHz signal conditioning, discrete and hybrid pin electronics
- CPU architecture and processor design
- Power/Environmental sub-system design
- High-speed ECL processor design

TEST ENGINEERING

Test Engineering professionals with experience in analyzing VLSI silicon with high-end test systems, these high visibility positions offer you the opportunity to work with advanced devices ranging from 32-bit processors and 80 MHz gate arrays to video processors and memories.

Applicants should also have solid computer and device physics background. These positions offer contact with Megatest customers and some travel.

- Test Engineers

COMPUTER SCIENCE

We have created the most advanced operating system and program development environment in the industry. But that's just the beginning. Our future plans reach into all major areas of computer science. If you have a BS, MS/CS or PhD, with exposure to all branches of computer science, a command of modern development methodology, and a genuine appreciation for clean, fully integrated design you could make significant contributions in one or more of these areas:

- User Interface/Interactive Graphics
- Automatic Program Generation
- Expert Diagnostic Systems
- UNIX Systems Programming
- Design Automation

MECHANICAL DESIGN

The Mechanical Engineering Design of our VLSI Test Systems requires deep technical knowledge and extraordinary breadth. Design challenges include precision systems interface to VLSI device handlers, a closed circuit TV wafer alignment and advanced cooling design for high density electronic packages.

Join a small, dedicated team committed to the advancement of electronic systems reliability, functionality and aesthetics.

- Mechanical Design Engineers
- Mechanical Design/Drafters

MARKETING

Marketing is the focal point of all-product strategy decisions. In constant cooperation with Engineering, Marketing guides product development and manages new product introductions. If you combine a professional command of complex high technology products, particularly as they relate to component testing, with strong business aptitudes, investigate our current openings.

- Software Product Marketing Engineers
- Test Applications Engineers

MANUFACTURING

We are committed to building the most reliable VLSI testers in the industry. To achieve this goal, we are forming a factory automated team to implement the latest robotics and computer controlled production equipment into our manufacturing operations.

- Manufacturing Engineers
- Quality/Reliability Engineers
- Quality Component Engineers
- Factory Automation Engineers
- Software/Hardware Engineers
- CAD/CAM Engineers

TRAINING

Megatest needs highly technical training engineers interested in teaching complex test systems. Training provides a challenging environment, requiring a working knowledge of both hardware and software. Instructors are responsible for the complete curriculum from course development, to actual instruction. There is opportunity for travel, both domestic and international.

- Technical Training Engineers

For more information on our dynamic corporation, come and talk with some of the people who make things happen at MEGATEST. We will be on campus March 16 and 19 in the Career Planning and Placement Center.

DON'T BOTHER DRESSING UP FOR THE INTERVIEW.

If you miss us, address your skills and strengths to: DAVID ARNOWITZ, 880 Fox Lane, San Jose, California 95131. EOE

MEGATEST

opinion

Hart just another candidate

(Continued from page 8)

something special to offer in the way of national leadership. Well, the other candidates were around during the '60s and '70s, too. I cannot see that having missed out on the most important events in

this century is any special qualification for public office.

The election is shaping up into a Reagan referendum, and the matter of who gets to hold the president accountable for his

policies, good and bad, is a serious one. I liked former Florida Gov. Reubin O'D. Askew, whom nobody has heard, and Henry Cisneros, who will not be running for at least fifteen years.

feedback

Social Council benefits community

To the Editor:

The Undergraduate Association Social Council is in charge of the coordination of all campus-wide social events, including the annual Homecoming and Spring Weekend celebrations. Theoretically our membership consists of the social chairmen of all the living groups on campus, but realistically we consist of anyone who wants to help and take responsibility during Homecoming, Spring Weekend or any other event (like the Valentine's Day Balloon Sale). My job as chairman is to decide when these weekends take place and to insure that no conflicts exist between the various events that are run by other groups. Implicit in this is the fact that we solicit events and their organizers. The Student Center Committee has become a major traditional contributor to the events of both weekends and we hope that they continue to do so. I have been working with Kim Fradd '85 *et al.* on the Spring Weekend Student Center Committee concert for May 4 since its conception. I do not feel that the Student Center Committee has impinged on my power, but rather I am grateful for their assistance.

I understand the thrust of *The Tech's* editorial to put forth your suggestions for the meaningful reorganization of MIT's student government. Your effort is commendable but in my mind it does not seem to address the right problem, which is that of lack of publicity for the meaningful activities of the UA and especially my group. The MIT community does not know that the UA Social Council exists and is functioning, for the most part due to *The Tech*.

The Tech, under the pretense of being a "real newspaper," refuses to write about something that has not happened yet (and therefore is not "real news"). I think, as do many, that knowledge beforehand of the Spring Weekend events is of interest to the community. It seems to me that pre-event knowledge is part of a paper's responsibility, at least to the same extent as record and restaurant reviews. *The Tech*, as the major communication link to the entire campus and undergraduate community, should not relegate campus-wide social events solely to advertisements.

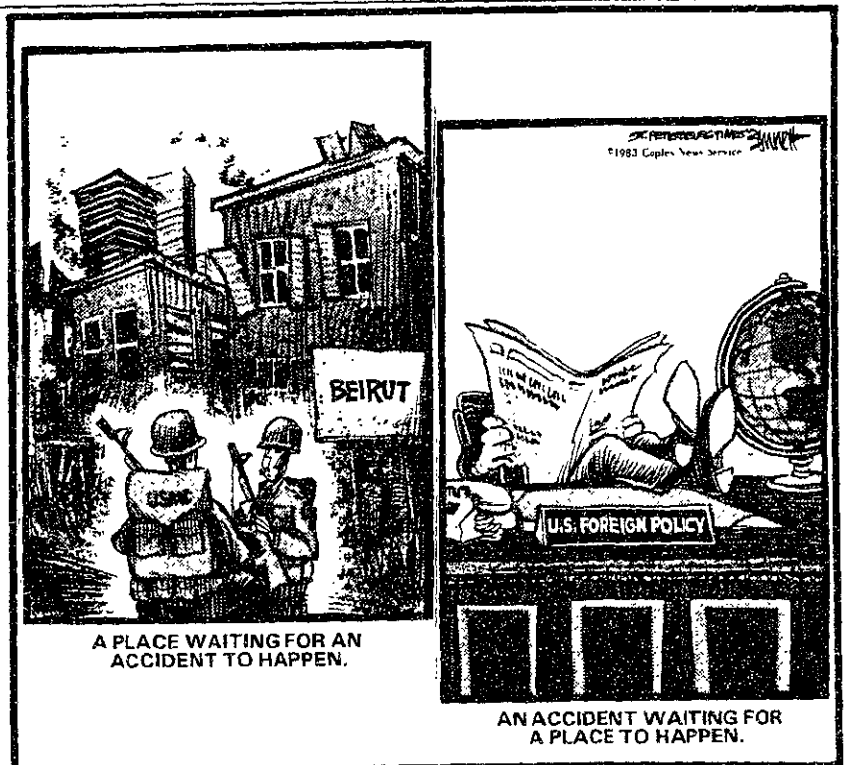
The Tech, through its reporting, has refused to acknowledge Social Council's involvement in the planning of Spring Weekend and its activities. As an example, the *Tech* articles on the Student Center Committee-Sigma Phi Epsilon Casino Boat Cruise did not mention that the cruise was to be the Saturday event during Spring Weekend 1984. The recent choice by the Social Council of the Miller Brewing Company and Burke Distributors as the beer sponsor of Spring Weekend was also not noted. From this, I conclude that *The Tech* seems to be totally ignorant of the workings of Social Council and therefore the Undergraduate Association's "purview" of social life at MIT. The premise that Social Council was bypassed

is wrong, and so the conclusion that the Undergraduate Association had no control over the process can have no basis.

In my opinion *The Tech* should endeavor to serve the community's desires and needs, and not the self-centered opinions of its editorial staff. In the future *The Tech* should stop trying to be

controversial, and serve its constituency by being more informational. The members of Social Council would appreciate that *The Tech* acknowledge our work to improve the quality of life at MIT.

Heni Meerman '84
UA Social Council Chairman



The new police recruits.
Call them slobs.
Call them jerks.
Call them gross.

Just don't call them
when you're in trouble.



POLICE ACADEMY

What an Institution!

"POLICE ACADEMY" A PAUL MASLANSKY PRODUCTION

STARRING STEVE GUTTENBERG • KIM CATTRALL • BUBBA SMITH • AND GEORGE GAYNES AS COMDT. LASSARD
STORY BY NEAL ISRAEL & PAT PROFT • SCREENPLAY BY NEAL ISRAEL & PAT PROFT AND HUGH WILSON

PRODUCED BY PAUL MASLANSKY • DIRECTED BY HUGH WILSON



Tonite

March 6

8:30

26-100

LSC

MIT/WELLESLEY ID REQUIRED

ADMISSION: FREE



Canada's Bear of Beers is here!

Down from the North Woods of Canada comes
Grizzly Beer. Not just another Canadian beer, but a rare breed of brew.
An authentic Canadian lager—naturally aged, so it's remarkably smooth. With a flavor
no other Canadian beer can stand up to. The bear of beers is here!



CANADA'S BEAR OF BEERS
Imported by Van Munching & Co., Inc., New York, N.Y.

1983: the year on record

The readers speak out ...

At long last, here it is — *The Tech's* readers' poll of the best records of 1983. Because not everyone is on campus during Independent Activities Period, it is difficult to solicit and compile everyone's choices until after classes start in February. Oh, well, better late than never.

Over a hundred different bands or performers were mentioned by those who sent in their choices. Some of the records people listed were released late in 1982, but were included if their impact was more strongly felt during the past year.

One of the more surprising aspects of this survey was the blurring of lines separating different musical genres. Many records were listed in more than one category, and bands who play music which once was categorized as new wave are now firmly entrenched in the mainstream.

As a result, the bands were reshuffled into the following four categories: pop/rock/new wave, funk/r&b, punk, and local. In each grouping, points were tabulated for each performer and a weighted score was calculated, based on a score of 100 for first-place. The number of performers listed in each category was dependent upon the total number of responses received which listed choices in that category. OK?

Some survey respondents ranked their choices, while others did not. Those who did not supply rankings had their choices weighted equally; polls which did list records in order had their higher choices weighted proportionally more than their lower picks. The more different records a person listed, the more the higher picks (and the less the lower) counted.

In pop/rock/new wave, the Talking Heads' *Speaking in Tongues* was far and away the most popular album, being named on well over half the ballots received. The Police's *Synchronicity* finished a close second, with *More Fun in the New World* by X placing third.

The high fifth-place finish by the Irish band U2 was due to their having released

Readers' poll pop/rock/new wave

1. Talking Heads — Speaking in Tongues	100.0
2. Police — Synchronicity	88.9
3. X — More Fun in the New World	78.5
4. Michael Jackson — Thriller	68.8
5. U2 — War/Under a Blood Red Sky	61.3
6. Prince — 1999	50.8
7. New Order — Power, Corruption, and Lies	42.9
8. B-52's — Whammy	38.3
9. Devo — Oh No, It's Devo!	34.5
10. REM — Murmur	33.5
11. Cure — Japanese Whispers/The Walk	26.1
12. David Bowie — Let's Dance	25.5
Dream Syndicate — Days of Wine and Roses	25.5
14. Elvis Costello — Punch the Clock	23.9
15. Pretenders — Learning to Crawl	23.0
16. Van Halen — Diver Down	22.0
17. Culture Club — Colour by Numbers	19.2
18. Bananarama — Deep Sea Skiving	18.2
19. Styx — Kilroy Was Here	15.3
20. Ministry — With Sympathy	14.7

two records during the past year — *War*, a studio album released toward the beginning of the year, and *Under a Blood Red Sky*, a live EP released at the end of the year. The votes for both records were tabulated together; if counted separately, *War* would have placed about tenth and the live record about twentieth.

The only bands mentioned which are not primarily identified with new wave (a term which has become largely meaningless) were Van Halen, placing 16th with *Diver Down*, and Styx, whose *Kilroy Was Here* finished 19th. Styx, David Bowie (a 12th-place tie for *Let's Dance*), and Michael Jackson (fourth place for *Thriller*) are the only performers in the pop top-20 who predate the new wave era.

Jackson and Prince (sixth place for *1999*) topped the funk/r&b choices in the

closest competition for first in any category. Ballots which named one tended to name the other. No one else came particularly close, with third-place Grandmaster Flash (rap singles "New York, New York" and "White Lines") garnering some support.

Suicidal Tendencies' self-titled album was the most popular punk/hardcore album of the past year, with Proletariat's *Soma Holiday* and Youth Brigade's *Sound and Fury* following. Again, several bands released more than one record during the past year. Only those records released on independent labels were considered in this category; X and the Ramones, both recording for major labels, were not counted.

Many of the local bands listed have yet to release any vinyl, but they were consid-

... but I have the last word

The ballots are in, and the readers have spoken. But now it's my turn to list my favorite records and bands of 1983. My choices were not significantly different from the compilation of picks on the surveys sent in to *The Tech* — I'll liberally interpret the result to mean people at MIT share my good taste in music. My selections are in approximate order of preference in each category, but don't hold me to it forever. Here goes:

Pop/rock/new wave

X, *More Fun in the New World* — Super album whose fine production qualities cannot mask this group's powerful performance. At last, a punk band garners mass appeal.

Michael Jackson, *Thriller* — Real meaty and funky, this album kept me hopping all year. I especially love "Billie Jean." Only one bad song on the whole record, the duet with — what's his name? — McArtry? You know, the ex-Beatle.

Police, *Synchronicity* — A little mellower than their previous efforts, but excellent songs nonetheless. The ethereal quality of "Every Breath You Take" still sends me.

Prince, *1999* — This dude is unreal, but his extended funk jams make club DJs and dancers alike smile. Guaranteed to make a dull party go. Scratch, scratch, I'm delirious.

Talking Heads, *Speaking in Tongues* — Not my favorite album by this group, with its lengthy and somewhat pointless funk stylings, but still enjoyable. Overrated as a dance record.

Kinks, *State of Confusion* — I'm a Kink Kultist from way back, and while these guys are starting to get long in the tooth, there's a lot of life in them yet. Always interesting music from the band who invented the power chord.

David Bowie, *Let's Dance* — His worst album in a long while is still one of the year's best. Too much pandering to the disco crowd leaves this record a little flat.

New Order, *Power, Corruption, and Lies* — Compelling rhythms densely layered with synths and tape loops. "Blue

Monday" hits you over the head and forces you to dance.

U2, *War/Under a Blood Red Sky* — Two records in one year is fine with me, especially when they are this good. This is music played with intense feeling, and it shows.

XTC, *Mummer* — Out as an import long before its American release, this album writes yet another chapter in the story of a band strong on integrating offbeat rhythms into a pop format. XTC continues to evolve as a cohesive musical unit.

Punk/Hardcore

Minutemen, *What Makes a Man Start Fires?/Buzz or Howl Under the Influence of Heat* — My favorite records of the year. Their quirky jazzed-up punk and innovative guitar work keeps riding around my turntable and refuses to leave.

Scream — Their self-titled debut album is an amalgam of many different styles, and even includes an acoustic piece. This band played only '60s covers at one show I attended, and only reggae at another.

Hüsker Dü, *Everything Falls Apart/Metal Circus* — Two releases which prove a band does not have to play lightning fast all the time to be powerful. As intense a band as there is.

Suicidal Tendencies — Another self-titled debut, dealing with the trials and tribulations of suburban teenage life. "Institutionalized" is a gem.

Government Issue, *Boycott Stabb/Make an Effort* — Once Washington D. C.'s most disliked band, the GI's have earned respect for their neo-psychedelic approach to hardcore.

Bad Brains, *Rock for Light* — Even a too-slick production job by the Cars' Ric Ocasek cannot destroy the intensity behind this all-black punk band, which has branched out and now performs primarily reggae.

Minor Threat, *Out of Step* — Even though the group has called it quits, this record is hardly a last gasp by any means. The creators of the "straight edge" philosophy.

Youth Brigade, *Sound and Fury* —

Three brothers comprise this band. The record, dedicated in memory of their father (a nice change from stereotypical anti-parent posturing) depends a little too heavily on chant-type singing.

Black Flag, *Everything Went Black* — They lay low in 1983 due to court battles with their former label, but did release this two-record set of demos. One side contains several humorous radio commercials.

Dirty Rotten Imbeciles, *Dirty Rotten EP* — DRI put 22 songs on a seven-incher. Eighteen minutes of the fastest thrash I have heard. You can't follow the words even with the lyric sheet.

Local area

Mission of Burma — They were the best, are still the best, and always will be the best. R. I. P.

Proletariat — *Soma Holiday* is a great album, but the Proles have to be seen to be fully appreciated.

Freeze — A hot record, but their absence from the stage hurts them.

Psycho — Not a thrash band at all, so they tend to be overlooked. Big mistake. Their bassist is a virtuoso.

S. S. Decontrol — Perhaps overexpectation on my part cost them points here, but *Get It Away* is a good, if too-short, record.

F. U.'s — Their virulently pro-American stance has gotten them into hot water with some punks, but what of it? Appropriate cover of "We're an American Band" on their album.

Cheapskates — Great ska/punk band, really fun to dance to. Hopefully, a record is in the works.

Limbo Race — One of the potential successors to the Mission of Burma legacy, they are stylistically similar but lack that certain punch. Their record shows great promise.

Jerry's Kids — Gone but not forgotten. Maybe they'll come back.

Christmas — This trio has been bashing it out for years, but can't seem to get that one big break. Their sound is reminiscent of early Gang of Four.

Drew Blakeman

ered anyway as most have received radio airplay of demo tapes. The Proletariat were most popular, partly because they played on campus last fall. The second-place Boston band named, Mission of Burma, broke up last March but were counted anyway. Punk dominated the local choices, but bands playing various forms of pop were also listed by many.

Overall, there were not many surprises. The most popular bands and records tended to be the ones that sold well and became mainstays of radio playlists, which is generally the case in any such survey — after all, consumer acceptance breeds popularity which breeds more popularity, and the most widely heard music is often the best remembered once the year is out.

Few polls listed singles as opposed to albums, so a meaningful list cannot be compiled. Four songs by Jackson and "Safety Dance" by Men Without Hats were the only ones mentioned by more than one person. Nobody mentioned the tautological tedium that goes by the name Duran Duran at all, which means that no 14-year-old girls attend MIT, or if they do their tastes are better than average for their age.

Drew Blakeman

ARTS

Readers' polls funk/r&b

1. Michael Jackson	100.0
2. Prince	94.3
3. Grandmaster Flash	46.3
4. S.O.S. Band	25.3
5. Nina Hagen	23.2
6. Jenny Burton	21.1
6. Troublefunk	21.1
8. Malcom McLaren	16.8
9. Rick James	14.1
10. Herbie Hancock	10.5

punk/hardcore

1. Suicidal Tendencies	100.0
2. Proletariat	82.8
3. Youth Brigade	79.3
4. Minutemen	69.0
5. F.U.'s	55.2
6. Husker Du	51.7
7. Government Issue	41.4
8. Minor Threat	36.2
9. Meatmen	34.5
10. Terveet Kadet	32.6
11. Black Flag	31.0
Misfits	31.0
Scream	31.0
14. Dickies	27.6
15. Freeze	25.9

local bands

1. Proletariat	100.0
2. Mission of Burma	88.5
3. Jerry's Kids	53.8
4. F.U.'s	41.4
5. Freeze	39.8
6. November Group	38.7
7. Cheapskates	31.0
8. Turbines	29.4
9. Berlin Airlift	28.8
10. Psycho	28.3
11. S.S. Decontrol	26.5
12. Jon Butcher Axis	22.1
Pat Metheny	22.1
New Models	22.1
15. Sex Execs	18.8

AT HARRIS/GSSD SUCCESS IS SPELLED

NOV!

AT OUR ADVANCED
TECHNOLOGY CENTER
IN SYOSSET, LONG ISLAND,
HARRIS/GSSD TOUCHES
THE PULSE OF SYSTEMS
SUPPORT TECHNOLOGY
WORLDWIDE

WE'LL BE ON CAMPUS

March 8th

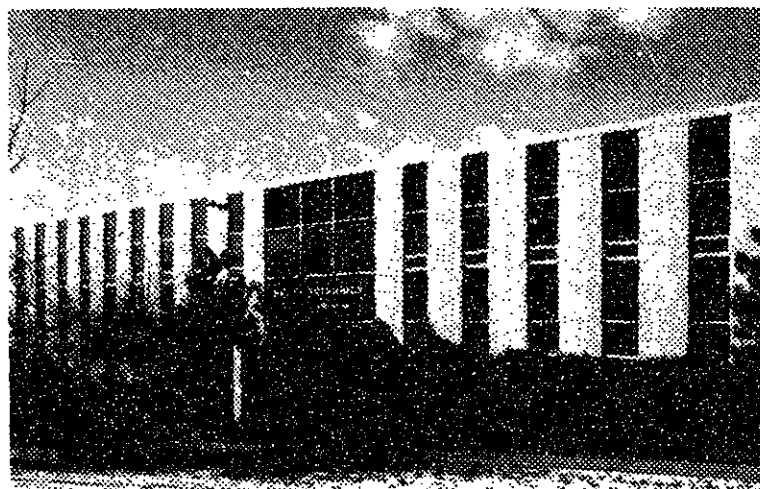
TO INTERVIEW GRADUATING
PROFESSIONALS IN THE
FOLLOWING BS/MS/PhD DISCIPLINES

**Electrical Engineering
Electrical Technology**

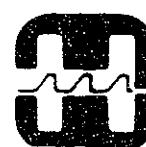


If you are unable to meet with us, we invite graduating professionals in the above disciplines to forward resumes to:

HARRIS Corporation
Government Support Systems Division
College Relations Office
6801 Jericho Turnpike
Syosset, New York 11791
516-364-0400



A career with HARRIS/GSSD means professional growth within one of the most advanced environments in the industry. On a personal level, HARRIS/GSSD is proud to offer professionals a positive, active, and supportive environment where individual potential is fully realized in a "team" approach.



HARRIS

An Equal Opportunity Employer M/F

Text of questions on spring ballot

The following is the text of the Undergraduate Association constitution referendum questions which will appear on the March 15 ballot:

Please read the following questions, as well as the supplementary material available at the voting booths; then answer the following questions:

● Item #1: The following shall be inserted in the Undergraduate Association constitution following Section 1.30:

"The Council of Student Representatives shall advise the General Assembly and the Undergraduate Association president on matters concerning the faculty and administration. The council shall consist of the student representatives to all Institute student-faculty committees and shall be administered by the UA Nominations Committee.

"The council shall meet several times each term, as requested by the UA president, vice president, five council members or the nominations committee."

● Item #2: The General Assembly of the Undergraduate Association shall be replaced by the UA Council. The UA Council shall assume all legislative and representative powers now held by the General Assembly. The membership of the UA Council shall be as follows: one representative from the Non-Resident Student Association; one representative per 125 undergraduates from each dormitory; one representative per 125 undergraduates at-large from the IntraFraternity [sic] Conference, four representatives from each of the upper class, elected in the spring UA elections; four freshmen elected early in the fall term.

All references to the General Assembly in the UA constitution shall be amended to reflect the above changes.

The UA Council shall draw up bylaws in accordance with the above changes.

Until the 1985 UA elections, the presidents, vice presidents, secretaries, and treasurers of each class shall serve as the class representatives to the UA Council.

● Item #3: The charter of the General Assembly-Graduate Student Council shall be adopted by the Undergraduate Association. (A copy of the charter is available at the voting booth. The charter will not be ratified until the Graduate Student Council has also approved it. In case of passage of item two, the charter will be amended to reflect the change from General Assembly to UA Council.

The reward for all those long nights of 6.003 tooling

Network Strategies is a unique technical and management consulting firm specializing in communications networks. We're located in suburban Washington, D.C., 20 minutes from downtown. Our clients include the largest U.S. Government agencies and some of the worlds largest corporations.

Our relatively small size offers freedom from organizational constraints, and extensive opportunities for staff members to interact directly with clients at the highest levels of government and industry. Our rapid growth demands that we recruit creative and talented people with applicable skills and strong interest in:

- Designing complex digital communications networks
- Designing nationwide voice communications networks
- Developing and applying design optimization techniques
- Networking office automation and personal computers

We're looking for a few select graduating students (undergrad and grad) with strong backgrounds in EE, CS and OR, and who possess presentation skills (oral & written) suitable for interaction with top management.

You'll be in good company, too -- nearly half of our technical professionals, including our president, are MIT alumni.

Why not come by and meet us?

Informal open house

Thursday, March 8, 4:30 - 6:30 PM Room 36-155

Refreshments and food will be served

Interviews scheduled for March 9

Network Strategies, Inc.

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.

Typeset Resumes say you are professional. We can help you design a personal format -- only \$25 (\$10 each additional page). Turnaround time is just two working days. Monday-Saturday. Contact Rudra Press today at 576-3394.

Help Wanted. Two full-time positions available in sunny Santa Barbara, CA. **LISP SYSTEMS PROGRAMMER** -- will be developing 68000 Lisp. **KNOWLEDGE ENGINEER** -- will be developing expert system on Symbolics 3600. Contact: Denison Bollay, Inference Technologies Division of The Original Computer Camp, Inc. (800) 235-6965.

LEGAL SERVICES -- Available in the fields of personal injury, negligence, business, real estate, contract, criminal, landlord-tenant, and divorce law. Reasonable rates. Call Attorney Esther J. Horwich, MIT '77, at 523-1150

SKIS/ACCESSORIES SALE: 190 cm OLIN MKIV with Salomon 727's, 160cm Rossingnol 'Firedances', 150cm Sarnier 'Darts', Olin SKI-CARE KIT, SKI, BOOT & Travel Bags, Roffe Racing Parts, Stereo ski pack, etc. . . call Jack, 494-8683/8674

SUBLET WANTED. Visiting Japanese Professor seeks two bedroom, furnished house or apartment, March 21 to August 21. Cambridge, Newton, Brookline or Belmont, near public transportation. Professor Fukashi Horive, 354-6125 or 253-8068

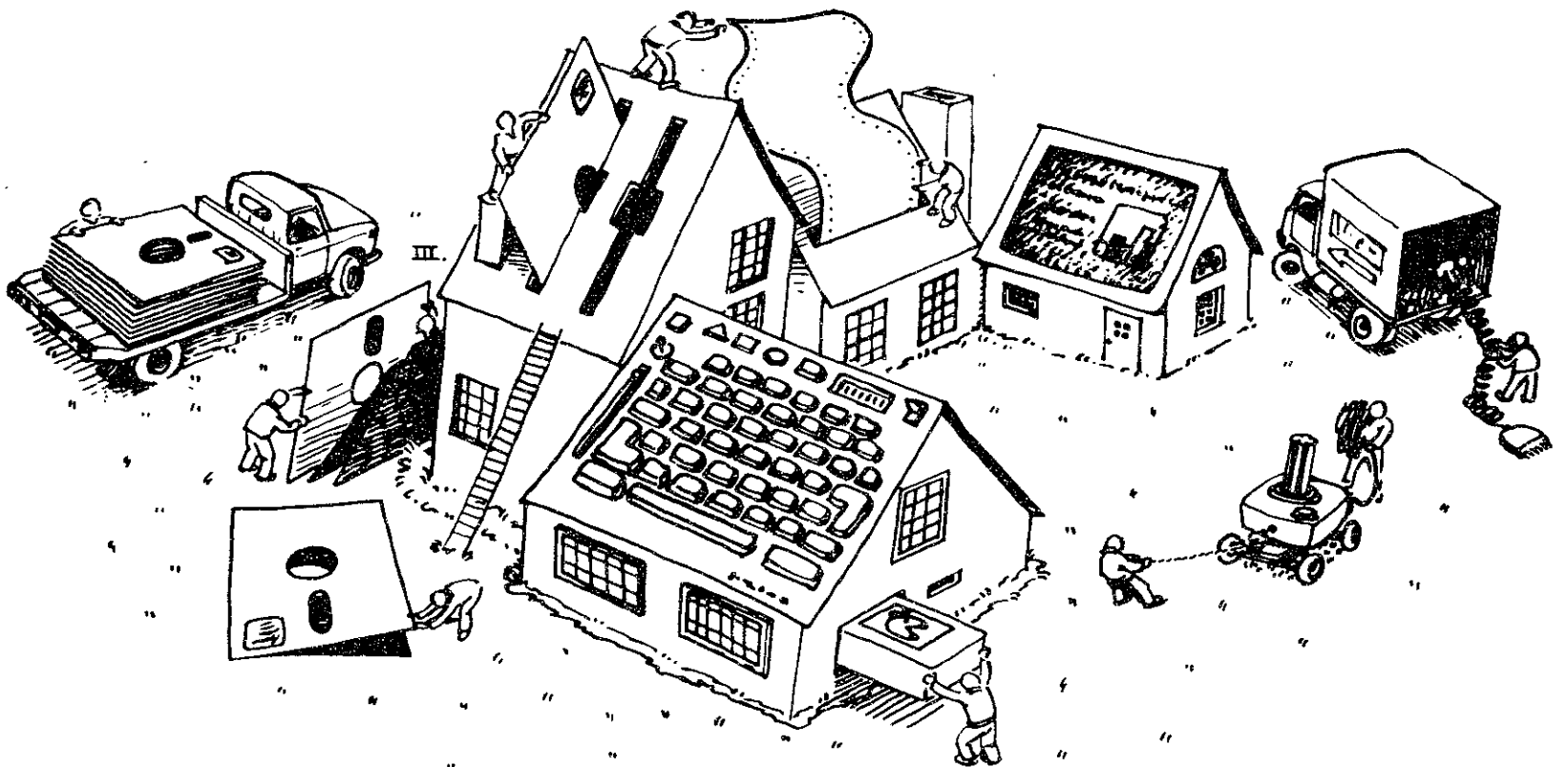
If you are a member of **Gamma Phi Beta**, please call (617) 628-6971 for information on Gamma Phi's activities in the Boston area. Ask for Kathe.

The **MIT Equipment Exchange** offers surplus equipment and used typewriters to students and staff at reasonable prices. Located in Building NW30, 224 Albany Street. Open Mon., Weds., Fri., 10 am -- 1pm.

ONLY YOU CAN PREVENT FOREST FIRES

This space donated by *The Tech*

BUILD YOUR OWN HOME COMPUTER



GENERAL COMPUTER IS REDEFINING THE STATE OF THE ART IN HOME COMPUTERS

We're looking for talented computer scientists and electrical engineers with experience in the following areas:

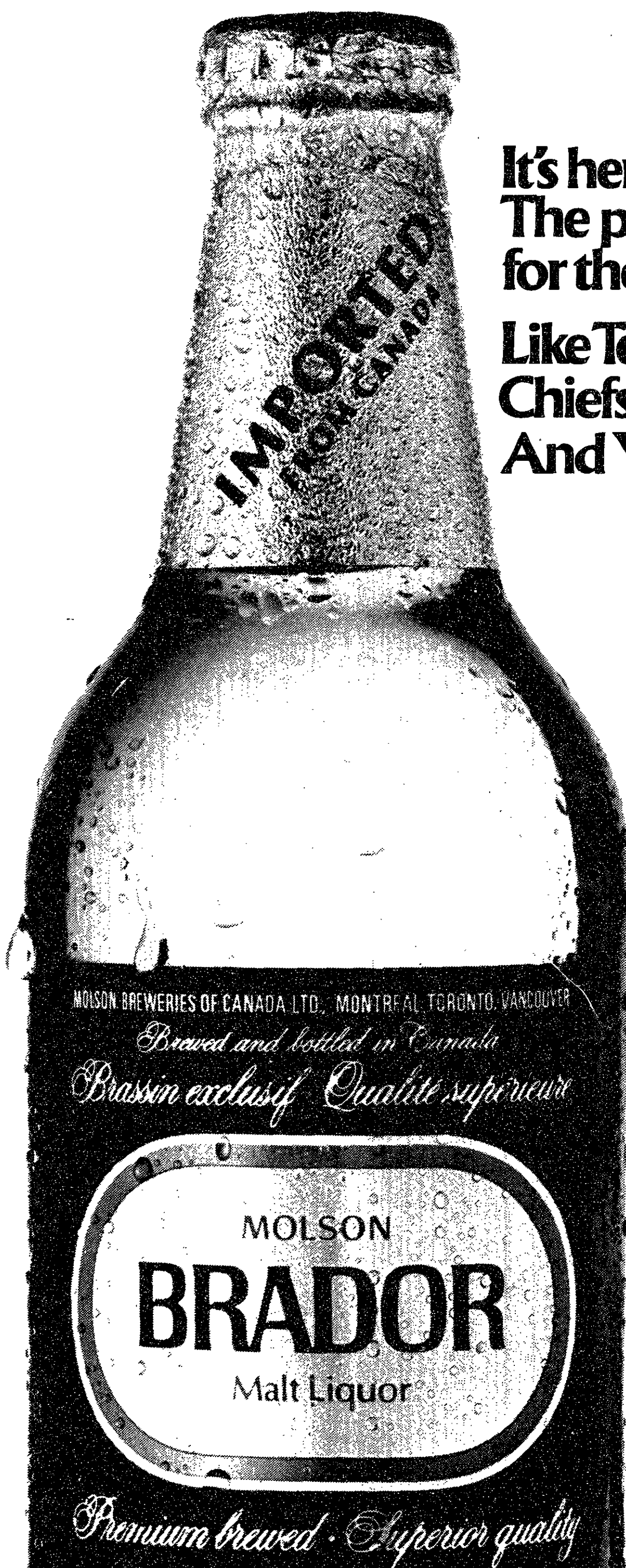
- Microprocessor Programming
- Peripheral Interface Design
- Single Chip Microprocessor Design
- Computer Graphics
- Digital Circuit Design
- Video Game Programming

General Computer is a small, innovative organization dedicated to developing successful consumer electronic products. We will be on campus Thursday, March 15th. If you are interested in any of these exciting opportunities please contact your career placement office. There are still positions available on our sign-up schedule.

GENERAL COMPUTER COMPANY

215 First Street, Cambridge, MA 02142

We are an equal opportunity employer



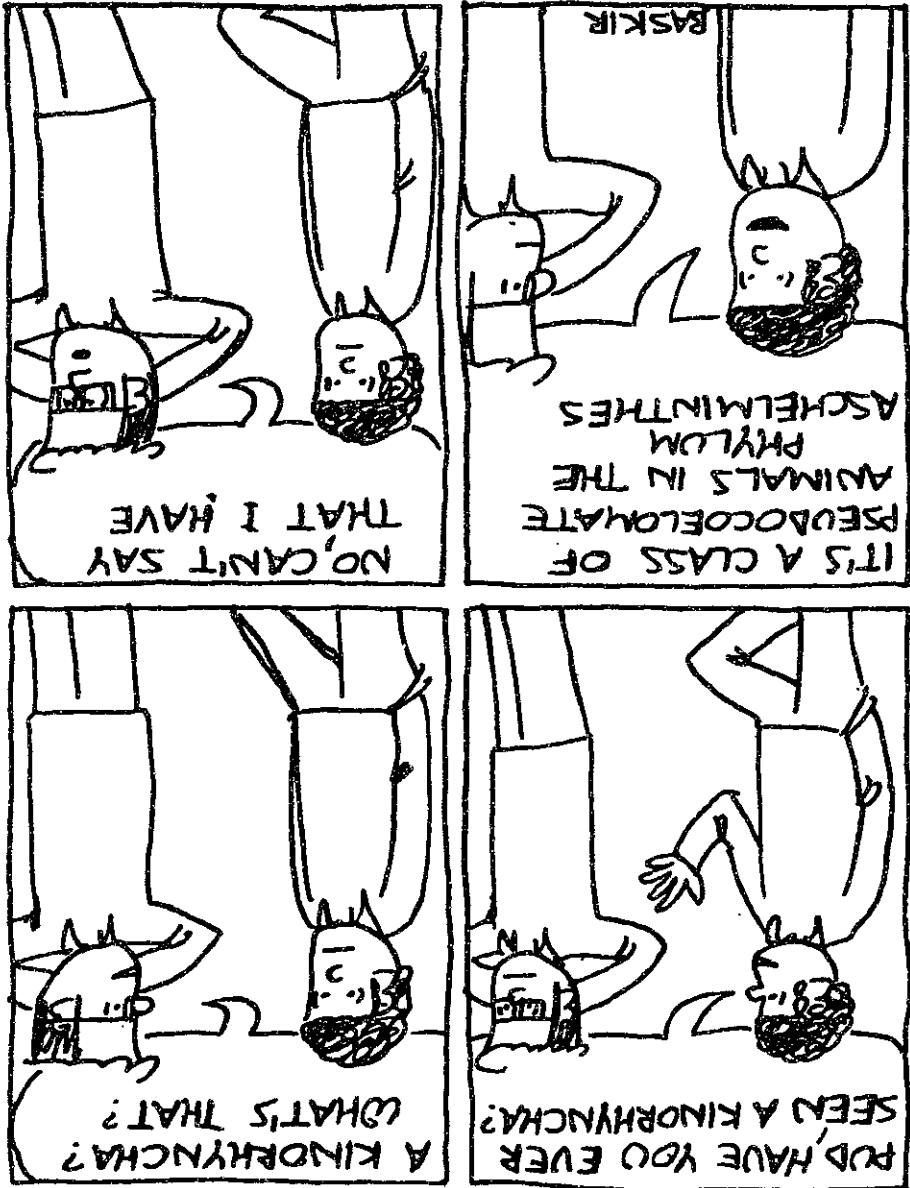
**It's here:
The premium taste
for the premium species.
Like Terriers, Huskies, Eagles,
Chiefs, Jumbos, Beavers.
And Yard Varieties.**

**Brador.
Everything you've
heard about it
is true.**

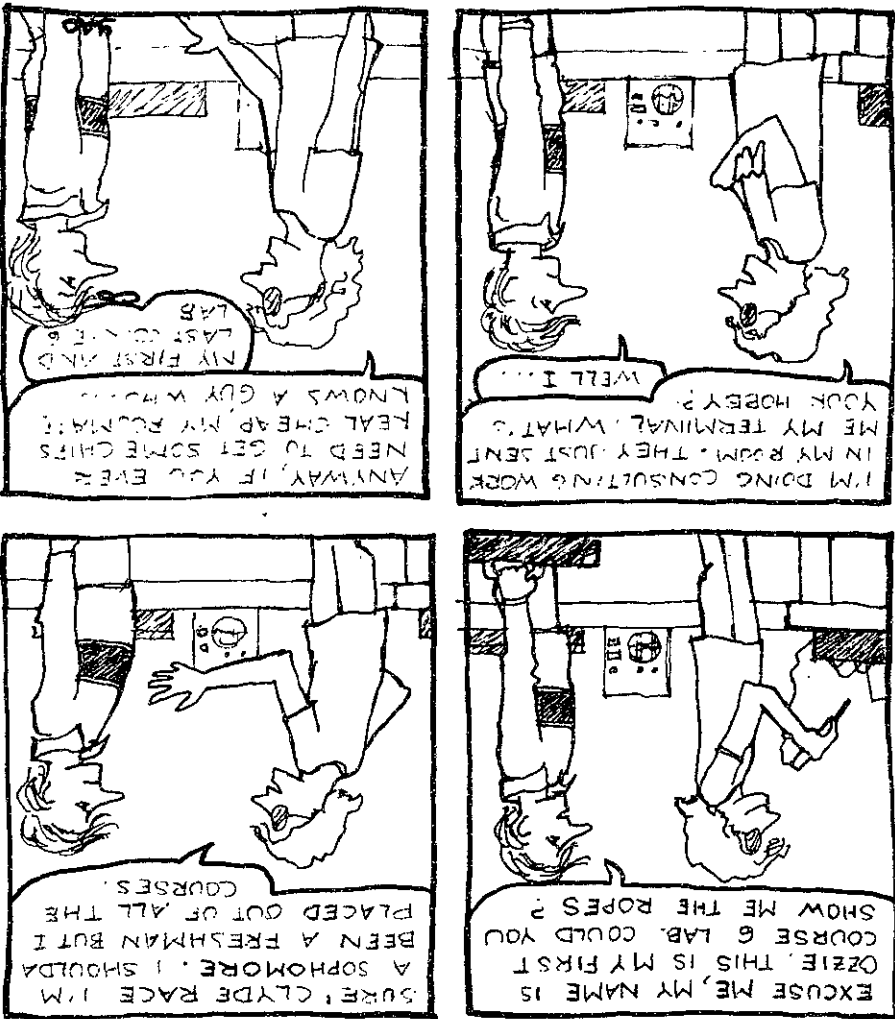
Brewed and bottled in Canada by North America's oldest brewery; imported by Martlet Importing Co., Great Neck, N.Y. © 1983

comics

Stickles
By Geoff Baskir



Room 001
By Carol Yao



SAVING BABIES...

Recording star Evelyn King:

"There is no greater joy than to have a healthy, beautiful baby. But not all babies are so fortunate — 250,000 infants are born with physical or mental birth defects each year. The March of Dimes Birth Defects Foundation works to save babies."

Support
March of Dimes
BIRTH DEFECTS FOUNDATION



This space donated by The Tech

The haircut
you want
is the haircut
you get.
We guarantee
it.

At Supercuts, we've been trained to cut hair perfectly. So no matter how you like your hair cut, you're going to get the cut you like. Every time we guarantee it, or your money back. That statement of confidence

And a Supercut is always \$8. coming back for more. what they want, they just keep when you give people exactly Which only goes to prove that most popular haircutters. has helped make us America's

Supercuts®

We're changing the way America cuts its hair.

2150 Massachusetts Ave.
Cambridge
492-0067
Hours: Mon.-Fri. 9-9 Sat. 9-7
666-1540
Twin City Shopping Center
264 Monsignor O'Brien Hwy.
Cambridge

Shampoo and blow dry available at additional cost
©1983 EMMA CORPORATION



LEVI'S® JEANSWEAR
FOR MEN.
Straight-leg corduroy jeans
of 88% cotton/ 12% poly-
ester in waist sizes 28 to
38 and lengths 30 to 36.
Available in navy, grey,
tan, wheat, brown, black,
blue-stone and charcoal.
Reg. \$20 SALE \$15.99
LEVI'S® SHIRTS FOR
MEN.
No-iron, short-sleeve pique
knit shirts with placket col-
lar in sizes S,M,L,XL. Avail-
able in royal, red, black,
white and teal.
Reg. \$13 SALE \$9.99

Available at Harvard Square, M.I.T. Student Center and Chil-
dren's Medical Center. Harvard Square store open Mon.-Sat.
9:20 to 5:45, except Thurs. till 8:30pm. Coop Charge, Mas-
tercard, Visa and American Express welcome

HARVARD
COOPERATIVE
SOCIETY

the
coop



Yao

HARRIS is holding an **OPEN HOUSE**

**For exceptional graduates with bachelor's or advanced degrees in
Electrical and Aeronautical Engineering, Computer Science and
Material Science/Chemical Engineering/Physics**

**Wednesday, March 7th, 6:00 p.m. — 9:30 p.m.
At the Hyatt Regency Cambridge,
Patriots Hallway, 575 Memorial Drive**

We invite you to meet some of our key management people. They look forward to an informal evening of informative interchange that's particularly meaningful to you. They'll zero in on the direction Harris Corporation is taking today and the avenues of opportunity and growth that direction is offering this year's graduates in our Fortune 200 company.

Plan to join us for some enlightening conversation and refreshments.

This Is Harris

Exceptional People Paving The Way To The Information Age

Harris Corporation is at the leading edge of an exciting new era. Over the past 20 years we have developed an extensive line of information processing and communication products which generate worldwide annual sales of more than \$1.4 billion. We're entering a period of outstanding growth opportunity. Join our people who thrive on challenge as we pave the way to the Information Age.

CAMPUS INTERVIEWS

**Thursday, March 8th and
Friday, March 9th**

Make arrangements now at the Placement Office

If you are unable to meet with us, send your resume to Harris Corporation, College Relations, 1025 W. NASA Blvd., Melbourne, FL 32901. An Equal Opportunity Employer M/F/H/V.

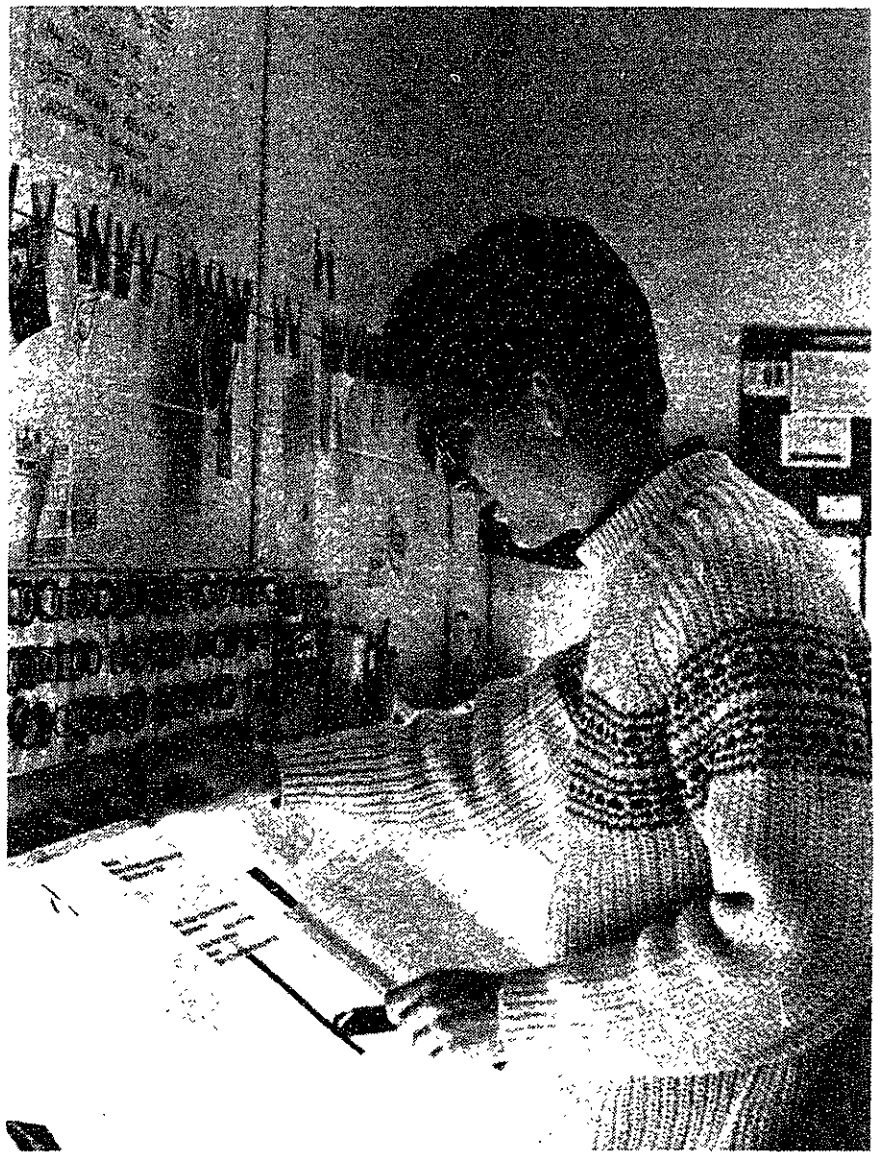


Who is *The Tech*?

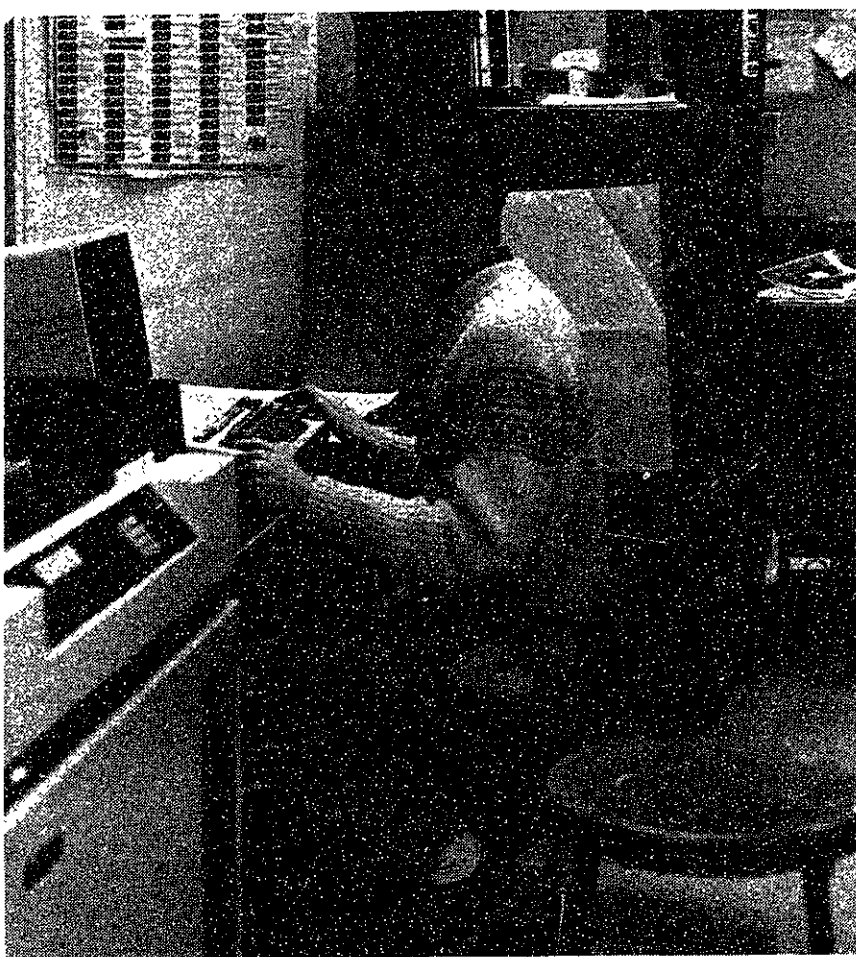
Andrew S. Gerber '87
Production Staff
Night Editor Volume 104

"Back in New Jersey, I worked on my high school yearbook. We would always type our articles on regular paper and send them away to the publisher. It was always a mystery how the yearbook turned out the way it did.

"I came to *The Tech* during the first week of classes, and immediately gravitated toward the production shop, where I could learn exactly how typesetting and layout are done; it wasn't a mystery any more. I worked as a production staffer for a while, became more involved, and was elected night editor by the Board for Volume 104.



Tech photos by Simson L. Garfinkel



"As night editor, I'm responsible for the layout and design of a given issue. I start out with a list from each department of how much space they need in the issue. Two days before the issue comes out, with the help of the production staff, I lay out the ads and do a preliminary layout of the articles in the issue. On issue night, I receive the copy from editor in chief, run it off on our typesetter, and see that it is pasted up properly. It is my responsibility to see that the paper is completed and taken to the printer.

"Stop by any time, and I'll be happy to show you how we produce a newspaper."

You've
chosen
MIT - the
best engineering
school

Learn to fly
at Patriot...
the best flight
school



Arthur Teager, President
Patriot Aviation

PATRIOT AVIATION

The FASTEST Growing Flight School in the Rugged Northeast

PATRIOT AVIATION GUARANTEED PILOT COURSE

Hi...I'm Art Teager...
MIT Class of '48 and '49



Come and enjoy the fun of flying with us
Enjoy a new kind of freedom

Experience the thrill and excitement of soaring with the eagles. Join the Patriot Family of safe, confident pilots. As a Patriot pilot, you will be part of a special group of people who have gained a new perspective, soared to new heights and gained new friends.

You'll join the Patriot Fraternity of safe, confident pilots and see the world through different eyes. We can help you conquer your fear, so that you too can *enjoy* this wondrous world of beauty.

Join our Patriot Family and earn your Patriot Wings. Come and enjoy the *Fun of Flying* with us.

Flying is really a lot of fun. We help conquer your fear by using only the **BEST NEW PLANES**, **BEST FLIGHT INSTRUCTORS**, **BEST CESSNA** (F.A.A. APPROVED) PROGRAM with **UNLIMITED FLIGHT HOURS** and **UNLIMITED GROUND SCHOOL** under our unique 2-3-2 program, all at a **GUARANTEED PRICE** (NO SHORT CUTS).

We train only in NEW Cessna 152 aircraft, the world's most forgiving trainer. You'll train at safe Hanscom Field with a control tower and long, wide runways. You'll receive the full ground course as part of the "Patriot Guaranteed" one-on-one program. You'll receive everything needed to earn your private pilot's license and Patriot Flying Wings.

PATRIOT AVIATION is the only flight school in this area to offer an all-inclusive flight training program using new equipment at a guaranteed price. In just 14 short weeks, you can join our Patriot Family of safe, confident pilots. Patriot is open 7 days a week with hours to fit your schedule. PATRIOT AVIATION IS SIMPLY THE SAFEST AND THE BEST.

TAKE 5 EASY STEPS AND BECOME A PATRIOT PILOT

- | | | | | |
|---|--|--|--|-------------------------|
| 1 PHONE 274-6500
FOR APPOINTMENT
FREE 1/2 HOUR TOUR
(NO OBLIGATION) | 2 COME SEE
OUR SCHOOL
& EQUIPMENT | 3 SIGN-UP
GET YOUR FREE
FLYING-RED-CASE
COMPLETE WITH LOGBOOK
(AND EVERYTHING NEEDED) | 4 START FLYING
UNLIMITED HOURS | 5 GET YOUR WINGS |
|---|--|--|--|-------------------------|

Come Join The Patriot Family. . .

BEST flight instructors
BEST new planes, and
BEST program. All at a
GUARANTEED PRICE* with
UNLIMITED flight hours and
UNLIMITED ground school
under our unique 2-3-2 program.

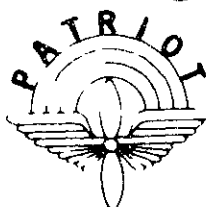
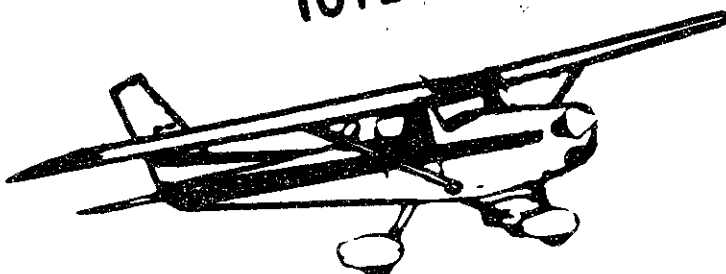
ONLY PATRIOT

- ☐ uses new aircraft.
- ☐ has all individual one on one instruction.
- ☐ is open 7 days a week.
- ☐ has flexible hours to fly your schedule.
- ☐ offers a guaranteed program and price.
- ☐ has the best instructors-all full time-all C.F.I.I.'s.
- ☐ has a full time FAA examiner on the staff.

* You'll learn everything needed

**We Care About Our
Patriot Family**

**NOW IS
THE BEST
TIME TO LEARN
TO FLY**



**HANSCOM
FIELD'S
ONLY**



FACTORY AUTHORIZED
CESSNA MOONEY DEALER
FLIGHT SCHOOL PARTS SERVICE
FAA APPROVED COURSES
FAA LICENSE A&P MECHANIC

Call Us at **274-6500**

PATRIOT AVIATION CORP.
3RD FLOOR, CIVIL AIR BUILDING, HANSCOM FIELD,
(ROUTE 128 & 2A), BEDFORD, MASSACHUSETTS 01730

Student telethon earns over \$100,000 for Alumni Fund

By Gary J. Drlik

The sixth annual student telethon netted \$100,398 for the Alumni Fund last month. Over 300 student volunteers, from Feb. 12 to Feb. 23, solicited donations from 2764 alumni, according to Lauren Norton, telethon coordinator of the Alumni Fund office.

This year's effort raised almost as much as last year's \$115,290, Norton said, although 246 fewer students made calls this year and contacted 3086 fewer alumni.

The average pledge increased from \$38 to \$45. Norton attributed this success to the enthusiasm of the callers and their "efficient bustle."

The alumni could specify what they wanted their money to be used for. Only 546 donors left their gifts unspecified.

This year more alumni chose student financial aid as the beneficiary than any other cause. The

callers were instructed to encourage alumni to contribute to student financial aid, Norton explained. The intent to solicit more money for student financial aid began last year, she said.

The dormitory response was poor, although both dormitory and independent living groups were contacted and asked to participate in the telethon. Dormitory residents comprised less than 20 percent of all callers.

Norton said there was the "usual publicity" for the telethon, but dormitory residents were not given individual notices through the mail as they were in past years.

During the telethon, students accumulated points in such categories as securing a specific dollar amount and getting an alumnus to increase his donation from previous years. The callers competed on an individual basis and as living groups.

The top caller of each night won a prize and all callers received an MIT glass in appreciation of their efforts.

The top individual caller for the telethon was Tony Colonna '87 from Phi Delta Theta. He won a weekend for two at the Copley Plaza Hotel in Boston.

Zeta Psi was the top scoring living group; it provided 54 callers and earned a total of 676 points. They received a \$100 cash prize.

Other beneficiaries of the February telethon included the Independent Residence Development Fund, the Campus Residence Fund, various athletic teams, and scholarship funds. The Interdependent Residence Development Fund and the Campus Residence Fund provide for the improvement and renovation of independent residencies and dormitories respectively.



Tech photo by Omar S. Valerio

Andrew de Rozairo '86 spikes against Worcester Polytechnic Institute in the final game Sunday. MIT won the match 15-5, 15-9 and 15-5, raising its record to 4-2.



Tech photo by Sherry K. Lee

Students talk with alumni during Alumni Fund Telethon in the Bush Room last month.

HARRIS CORPORATION OPEN HOUSE

for Electrical and Aeronautical Engineering, Computer Science and Material Science/Chemical Engineering/Physics majors. WED., MARCH 7TH, 6:00 p.m. — 9:30 p.m., at the Hyatt Regency Cambridge, Patriots Hallway, 575 Memorial Drive. Refreshments will be served.

BAHAMAS COLLEGE WEEKS

Freeport \$279*
Nassau \$299*

*plus 15% tax & services.

- Departures from Boston every Sat. and Sun. Price includes:
- Roundtrip airfare from N.Y. (add \$40 from Boston)
- 7 night hotel accommodations (quad occupancy). Add \$20 for triple, \$50 for double.
- College week activities—beach parties, sports competitions w/prizes, festivals
- Transfers, tips and taxes

☐ I have checked availability with my campus rep. and enclose a \$100 deposit.

Name _____
Address _____
City _____
State _____ Zip _____
School _____ Phone _____
Departure date _____
Departure city _____

FDING

INTER-COLLEGIATE HOLIDAYS INC.
Authorized Campus Rep:

Mark Stiffler

576-2253

Electrical Engineers and Computer Science Graduates (Bachelor and Masters)

DRESSER ATLAS, a major division of a Fortune 100 company, provides specialized technical services to the oil industry. Our Petroleum Engineering Services section is an elite team recognized worldwide as leaders in the analysis and interpretation of down hole oil well data.

We need only the exceptional self-starting individuals who can join this team and accept responsibility for designing and developing the software for our next generation systems. A strong knowledge of Fortran is required. Geology courses helpful.

We will be interviewing on your campus on March 12, 1984. Please contact your placement office for further details.

EYEGLASS & World

Complete Optical Shop

We have the new plastic scratch resistant lenses



Fashion frames at reasonable prices

Instant eye exams

• Prescriptions filled

• Fashion tints and photo changeables

• Contact Lenses 60 Day Trial

• Large Selection of Ray Ban Sunglasses

• Sport Frame Available

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

WHY PAY MORE?

THRIFTY RENT-A-CAR

HARVARD SQUARE
876-8900

BOSTON
367-6777

CENTRAL SQUARE
492-3000

Plus 7 other suburban locations to serve you!

\$18.95

Per day for Chevrolet Chevette
UNLIMITED FREE MILEAGE
Confirmed reservation required.

Full Line of 1983 Chevrolets

"Never a Mileage Charge"

OUR TWO-WEEK SPECIALS ENDING MARCH 17

AFRIN
Nasal Spray

1/2 oz. **\$2.45**

CONTAC
Capsules

10's **\$2.49**

REACH
Toothbrushes
\$1.29

Q-TIPS
54's **\$.62**

CEPASTAT
Lozenges

18's **\$1.58**

SPEED STICK
Deodorant
Regular

2.5 oz. **\$1.88**

ADAVITE
High Potency
Vitamins

130's **\$4.99**

TOPSY TIPS
Adjustable
Nail Tips

24's **\$2.69**

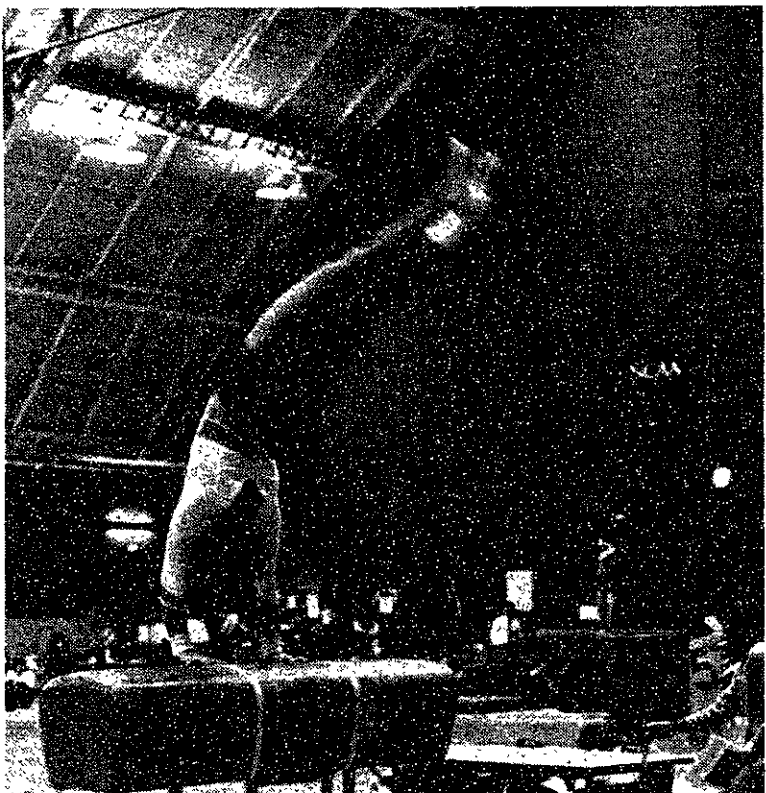
KENDALL DRUGS

Your MIT Community Drug Store

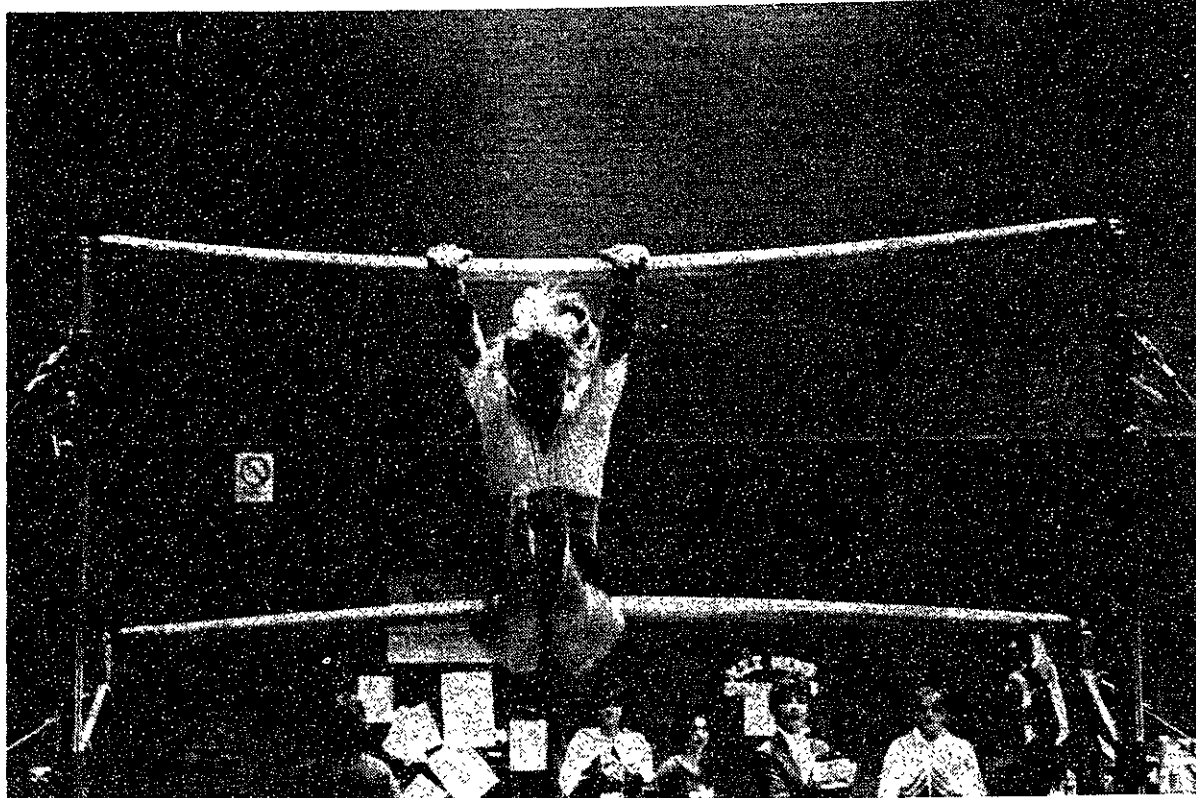
492-7790
Kendall Square

238 Main Street
Cambridge, Mass

sports



Tech photo by Sherry K. Lee
Virginia K. Chang '85 vaults at the Division III Championships Saturday in duPont gym.



Tech photo by Sherry K. Lee
Missy Maxfield '85 swings through the uneven parallel bars during the New England Division III Championships Saturday in duPont Gymnasium. Maxwell finished second in the overall competition.

Pistol wins sectionals

By Len Rafuse

MIT won the New England Collegiate pistol sectionals at MIT this weekend. The team hosted Worcester Polytechnic Institute, Norwich University, and the US Coast Guard Academy for the sectional titles.

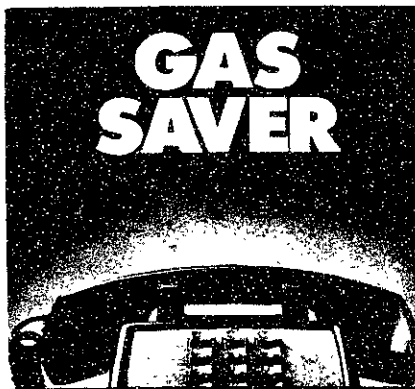
In free pistol, both the MIT Gray and Maroon teams faired well, finishing first and second with scores of 2041 and 1972 respectively. WPI finished third with a score of 1895. The Gray team was led by Dave Martin '84, Will Johnson '85, Roberto Landrau '85 and Larry Deschaine '84. Dave Martin took first with Johnson in second and Jerry Martin third.

Jerry Martin '86 led the Maroon team. In standard pistol, the teams placed 1st and 3rd with scores of 2148 and 2012 respectively. Norwich, a new team in the sport, took second place with 2016 points. The winning Gray team was composed of Landrau, Dave Martin, Johnson and Jerry Martin. Dave McCormack of Norwich won the individual competition with Dave Martin in second and Johnson in third. Len Rafuse '84 led the Maroon team.

The air pistol results found MIT Grey and Maroon in first in second agian with scores of 1470 and 1433. WPI finished third with a 1410. The first team was Jerry Martin, Landrau, Deschaine and Dave Martin. Jerry Martin won first with Landrau one point behind in second. Third place went to Dave Barlow of WPI. Johnson led the second team.

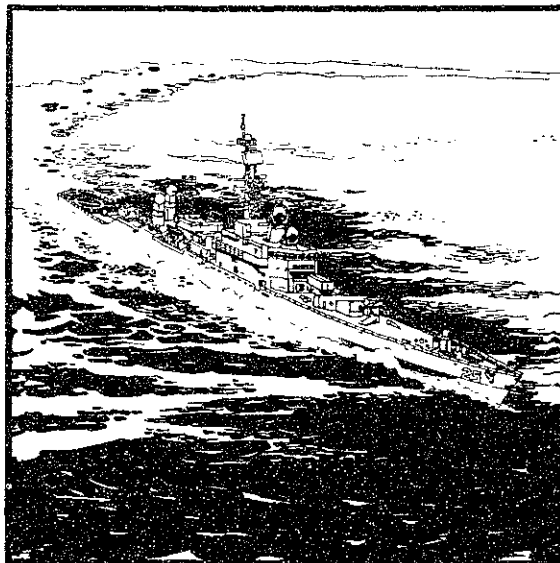
The team is now training for the Collegiate Championships April 6-8 at the US Air Force Academy. The team won the sectionals after finishing 7-1 on the season.

Editor's note: Len Rafuse is a member of the pistol team.



This space donated by The Tech

The Most Sophisticated Training Ground For Nuclear Engineering Isn't On The Ground.



It's on a Navy ship.

The Navy has more than 1,900 reactor-years of nuclear power experience—more than anyone else in America. The Navy has the most sophisticated nuclear equipment in the world. And the Navy operates over half of the nuclear reactors in America.

With a nuclear program like that, you know the Navy also offers the most comprehensive and sophisticated nuclear training.

Every officer in the Nuclear Navy completes a full year of graduate level technical training. Outside the Navy, this kind of program would cost you thousands. In the Navy, you're paid while you learn.

Then, as a nuclear-trained officer, you supervise highly trained personnel in the operation of the most advanced nuclear propulsion plants ever developed. You get a level of technical and management experience unequalled anywhere else.

You get important responsibilities and you

get them fast. Because in the Navy, as your knowledge grows, so do your responsibilities.

Today's Nuclear Navy is one of the most challenging and rewarding career choices a man can make. And that choice can pay off

while you're still in school. Qualified juniors and seniors earn approximately \$1,000 per month while they finish school.

As a nuclear-trained officer, after 4 years with regular promotions and pay increases, you can be earning as much as \$40,500. That's on top of a full benefits package that includes medical and dental care, and 30 days' vacation earned each year.

As a nuclear-trained officer, you also earn a place among this nation's most qualified and respected professionals. So,

if you're majoring in math, engineering or the physical sciences, send in the coupon. Find out more about the most sophisticated training ground for nuclear engineering. Today's Nuclear Navy.

NAVY OPPORTUNITY INFORMATION CENTER W 345
P.O. Box 5000, Clifton, NJ 07015

☐ Please send me more information about becoming an officer in the Nuclear Navy. (ON)

Name _____ (Please Print) _____
First Last
Address _____ Apt. # _____
City _____ State _____ Zip _____
Age _____ College/University _____
Year in College _____ GPA _____
Major/Minor _____
Phone _____ (Area Code) _____ Best Time to Call _____

This is for general recruitment information. You do not have to furnish any of the information requested. Of course, the more we know, the more we can help to determine the kinds of Navy positions for which you qualify.

Navy Officers Get Responsibility Fast.