

Gray announces decision; forced commons for '84

By Richard Salz

Beginning with the incoming Class of 1984, new residents of Baker, MacGregor, and McCormick dormitories will be required to be on a mandatory commons program. Residents of Next House, scheduled to be completed by the fall of 1981, will also be required to be on the new points program.

Residents of East Campus and Senior House dormitories will be required to purchase scrip. The scrip can be used like cash at any of the MIT dining facilities.

MIT Chancellor and President-elect Paul Gray '54 announced the administration's decision on the campus dining situation last Friday, February 8, to a group consisting of the members of the original Committee on Campus Dining (COCD) and interested students and staff.

The commons program will become solely a points program; there will be no more 15- or 19-meal programs. Students will purchase points redeemable in the standard manner for breakfast, lunch, or dinner. Meal values will change slightly: as breakfast will be worth one point, lunch will be two, and dinner will be worth three points. Students may purchase quantities of points ranging from 160 points up to 560, increasing in blocks of 50.

Each plan will also have two options, a "no seconds" option and a "seconds" option. Both allow unlimited seconds on beverages, bread, and salad. The "no seconds" option allows a student to go through the line once for entree, vegetables, and dessert, and the "seconds" option allows the student unlimited vegetables and two trips through the line for entree and dessert. Additional entrees and some special items may be purchased a la carte.

A new modification to the point system, however, is that points will now carry an equivalent cash value. The value of the points will vary from approximately \$1.90 to \$1.30, depending on the quantity of points purchased and the "seconds" option. This change

means that if a student spends two dollars in Twenty Chimneys, he could elect to use points, leaving a cash balance to be credited to his account. No cash would actually trade hands in this case, as the transactions will all be handled by a new Validine computer system. Each student on the meal plan will have a new picture ID card issued with a magnetic strip on the back to identify the person. The actual transactions and balances will be stored in the computer, not on the card.

For at least the next couple of years, the meal card ID would be separate from the present standard MIT ID, according to Gray. Noting that this was basically just

a guess on his part, he then projected moving to one ID at a later date, possible after the student's accounts and other records are tied into the system.

A similar system would also be used for the scrip program. Students would pay for the scrip with their term bill at the beginning of the semester. They would be able to purchase amounts in blocks of \$50, starting at \$200 per term. Discounts will be given for larger purchases.

New residents of East Campus and Senior House will be required to purchase scrip. The minimum purchase is set at eighty percent of the price of the required "no
(Please turn to page 6)

Additional Changes to Campus Dining

1. Late meals (to 8pm) provided in one of the house dining rooms
2. Weekend dining provided in one of the house dining rooms
3. Improvement in east campus dining facilities and services subsequent to full review
4. Kitchen upgrading in New House, Burton, Bexley, and Random Hall, as required
5. Modification of space and facilities for food co-op use

Publishers sue Gnomon over copyrights

By Jerri-Lynn Scofield

Seven major publishing firms have brought suit against Gnomon Copy Corporation for allegedly reproducing copyrighted material without permission.

Associate Provost Hartley Rogers, who has been preparing a memorandum for MIT's faculty explaining general copyright

guidelines, said, "...what [the publishers] are after the copiers for is taking several works, copying them, binding them into an anthology, and selling them. This anthology... is obviously a flagrant violation of the copyright law."

With regard to potential liability of professors who submit material to be copied, Rogers

said, "It is my impression that they are not going to go after university faculty members. It is my impression that they just want to see it stopped."

Bill Strong, an attorney from MIT's law firm of Herrick and Smith who has been working on drafting the memorandum with Rogers, said, "In order to succeed in a suit against an MIT faculty member or MIT, a copyright owner is going to have to show that the activities at Gnomon are illegal... and secondly, that the MIT faculty member falls within the definition of a co-infringer."

Strong added, "My impression has been that most faculty at MIT are just as concerned as anybody about it [the copyright issue] but are eager to appear not to be on the edge of the law."

Regarding potential liability of students, Strong said, "As a legal matter, I think it would be next to impossible to hold a student liable who had xeroxed something at the request of a faculty member."

A source indicated that "there's been word of mouth given on an ad hoc basis" to faculty members concerned with the copyright question, but that the memo "will be the first official statement" relating to the problem. This source also added that the administration will not be expected to act as a "police force" to enforce the copyright laws.

Many MIT courses list as part of their reading requirements

materials that can be purchased in "packets" from Gnomon Copy. Professors supply Gnomon with works they want reproduced; students are informed that these materials are on reserve at the library or can be purchased. According to an informed source, "If the plaintiffs in the suit win, that kind of thing will stop."

Gnomon Copy Corporation is a Cambridge-based company which does much business with students and faculty members of several American universities. Gnomon has branches near Yale University, Cornell University, the University of Pennsylvania, Harvard University, and MIT. When asked whether the suit against the corporation had affected operations at a Cambridge store, a Gnomon employee replied, "It hasn't changed the way I operate."

The publishers who have instituted this suit include Prentice Hall; John Wiley & Sons; the Princeton University Press; Nelson-Hall; McGraw Hill; Holt, Rinehart & Winston; and Harper and Row.

The original Copyright Act was drafted in 1909. As technological advances were made in the areas of printing and copying, these guidelines became inadequate. The Copyright Act was revised in 1976; these revisions went into effect on January 1, 1978. Rogers commented that "the new law makes it much more clear when you are infringing."



Despite the copyright infringement suit, the Gnomon Copy facility by MIT continues business as usual. (Photo by Matthew B. Alschuler)

UAP attacks tuition, fin. aid; Gray defends Institute position

By Gordon Hunter

"MIT's tuition is paying for a much larger share of MIT's expenses than it has paid in anyone's living memory," explained Undergraduate Association President (UAP) Jonathan Hakala '81, claiming that the \$900 tuition increase for the 1980-1981 year is too high.

"From 1970 to 1979, the real expenses of running MIT after inflation have gone up four percent. Real tuition income has gone up a whopping 53 percent. In other words, the increase in tuition income went up twelve times as fast in percentage terms as MIT's expenses, measured in real dollars," Hakala added.

Chancellor Paul Gray '54 said

that the administration compares tuition to median nominal family income before taxes, per capita nominal disposable income and median nominal starting salary before taxes for graduating MIT students. "We don't use these for setting tuition... The purpose is

"MIT offers by far the worst financial aid package of any university in the United States which offers financial aid based on need."

to give some measure whether tuition is staying in step with the rest of the economy."

Gray's figures show that under these three criteria, "an MIT education, while costing more, has only been keeping an even pace with the rest of the economy."

Hakala disagreed, saying that his figures, based on the MIT Treasurer's Report, showed a much different situation. "Tuition has soared much faster than the real after-tax income of Americans," he claimed. "The MIT administration must realize sooner or later that the baby boom is over. We must be cost-competitive if we are to continue

(Please turn to page 2)

inside

The Committee on Sexual Harassment calls for a declaration of Institute policy and for a group to review Institute sexual harassment procedures. **Page 3**

Kresge's long history of engineering errors is examined in the first of a two-part series. **Page 7**

At long last, our restaurant reviewer has found the perfect spot to be wined and dined. **Page 8.**

The MIT Republican Club has re-organized after years of absence. **Page 10**

news roundup

World

Rhodesian guerrilla leader attacked — Eighty pounds of explosives were detonated by remote control in a culvert in the city of Fort Victoria, Rhodesia, nearly injuring Robert Mugabe, a guerrilla leader. Mugabe was returning from a campaign rally for Rhodesia's general election, scheduled for the end of this month. The attack on Mugabe was the second in two weeks, but he escaped without harm.

Nation

Carter defeats Kennedy in Maine — President Carter picked up his second campaign victory in Maine Democratic caucuses held Sunday. Carter's winning margin was approximately 46 percent to 40 percent over Sen. Edward Kennedy. Gov. Edmund Brown of California finished a distant third, with the support of about 13 percent of the Maine delegates.

Local

Coop to open Boston branch — The Harvard Cooperative Society announced the plans for a new 8000 square-foot branch store to be opened later this year in downtown Boston. The new store is planned for the ground floor of the National Shawmut Bank building on Milk St. in Boston.

Weather

Chance of snow early today, clearing by afternoon. Fair tonight and Wednesday. Highs today and tomorrow between 30 and 35, low tonight around 20.

By Jay Glass

Gray foresees big equity level boost

(Continued from page 1)

to attract students and maintain our standards of academic excellence."

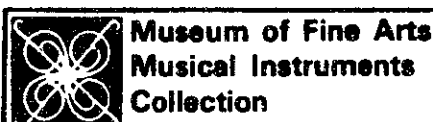
While MIT will probably be among the highest in tuition and total living expenses, Gray said that MIT will be competitive with other academically comparable universities, such as the Ivy League schools. "It appears that students who are looking at us are looking at universities of comparable cost," he explained.

"MIT's tuition is paying for a larger share of MIT's expenses than it has paid in anyone's living memory."

Hakala said that the tuition hike is especially bad for students since "MIT offers by far the worst financial aid package of any university in the entire United States which offers financial aid based on need."

Gray agreed that "the ability to earn money (by students on campus) ought to parallel expenses," and he promised that raising student salaries would be investigated.

He predicted that the equity level would also be increased for students on financial aid. "The position we have tried to take is to share student expenses approximately equally between the Institute, in the form of scholarships, and the students", the Chancellor said, predicting that the equity level would increase approximately \$450—equal to half of the tuition increase.



JOHN GIBBONS
performs
G.F. HANDEL SUITES
FOR
HARPSICHORD
Nos. 8, 2, and 3
Tues., Feb. 12, 7:00pm

Tickets: \$5; \$3 students, MFA members, senior citizens.
Call 267-9300, x340 for information.

Drive a National car to the slopes and you'll get up the slopes for half the price.

Tom Coover



First, National helps you get to the slopes. Just rent one of our ski specials, and you get a Chevrolet Chevette or similar sized car for only \$14.95 a day with free mileage. You just pay for gas.

Then, National helps you get up the slopes. Just ask our counter agent and you'll get 1/2 priced ski lift tickets that are good at Waterville Valley, Mt. Cranmore, Sugarloaf, Loon Mt. or Blue Hills. And they're good until the end of the season. You can get up to four half

priced ski lift tickets with each rental.

Offer is available Thursday through Monday and only at these locations: 1651 Massachusetts Avenue, Cambridge (at Holiday Inn) 661-8747, 183 Dartmouth St. (next to the Copley Plaza) 426-6830.

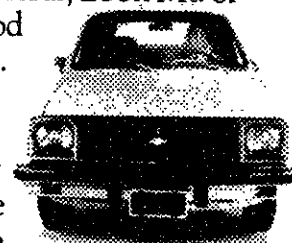
Rates are non-discountable. Car must be returned to renting location. We offer S&H Green Stamp Certificates on rentals in all 50 U.S. states.

\$14.95 a day no mileage charge.

National Car Rental

Certain minimum daily requirements apply.

Maybe we're better.



We feature GM cars like this Chevrolet Chevette.

Taking a job with a big computer company can be the first step toward oblivion. As a beginner, it's easy to get pigeon-holed or lost in the crowd.

At Wang, however, you'll get a chance to be a stand-out from the start. It's not that we're a small

company (last year we sold over \$400 million worth of word processing and computer equipment). The point is, we think new blood and young ideas are as vital as experience.

We also believe in

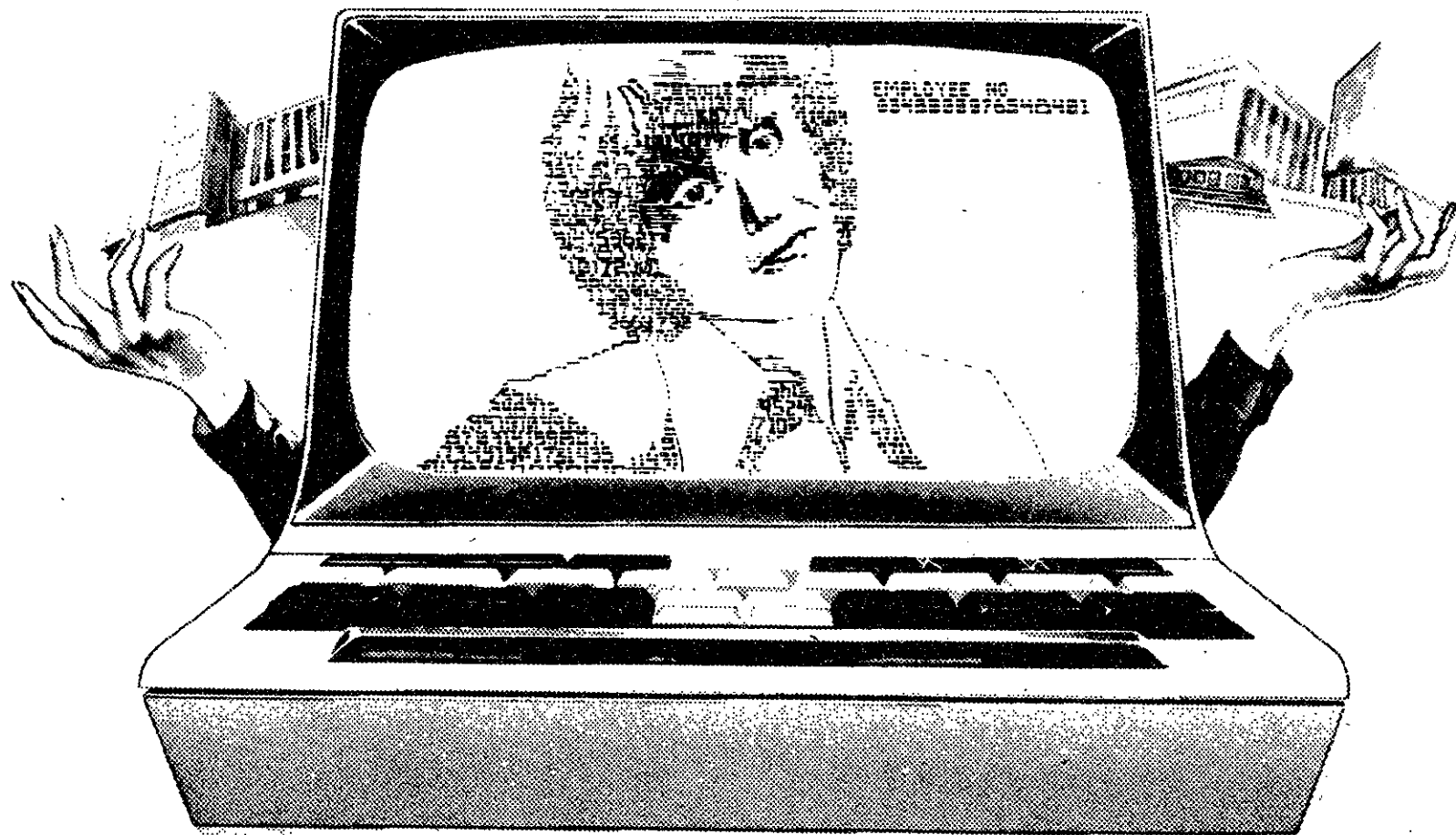
minimizing paperwork and bureaucracy, and in giving everybody the chance to see his or her ideas turn into products. In addition, we'll give you plenty of opportunities for advancement in whichever career path you chose

technical or management.

If you'd like to work in a company where your success depends on your own energy, brains and ingenuity, Wang could be just what you're looking for.

And vice-versa.

How to work in the computer industry without becoming a statistic.



WANG

Making the world more productive.

©1980 Wang Laboratories, Inc., Lowell, MA 01851, U.S.A.

Wang's representatives will be on campus on February 25, 1980. To arrange an interview register with the Placement Office. If the schedule is full please call Elaine Rosenberg collect at 459-5000, ext. 2788 or

send her your resume as soon as possible at Wang Laboratories, Inc., One Industrial Avenue, Lowell, MA 01851. We are an affirmative action employer.

Sexual harrassment comm. wants public policy statement

By Gordon Hunter

The Ad-Hoc Faculty-Student Committee on Sexual Harassment has prepared recommendations calling for a public declaration of Institute policy and the formation of a group to review Institute procedures concerning sexual harassment, according to Professor of Electrical Engineering and Computer Science Peter Elias, chairman of the committee. The recommendations will be presented to the Committee of Educational Policy (CEP) for faculty endorsement at the Wednesday meeting next week.

According to Elias, the current policies and procedures of MIT are good. The recommendations call for a full declaration of these policies and procedures to "raise community consciousness" concerning sexual harassment as well as to demonstrate just how seriously the Administration views the subject, he explained. In addition, he said that the ad-hoc committee has recommended that a group be formed to review "the evolution of procedures" dealing with harassment. Elias added that a series of articles which appeared in *The Tech* last October concerning faculty-student relationships had already begun to implement the declaration of policy.

A source in the Administration said that "since the articles [in *The Tech*], some kind of allegation of a reasonably serious complaint concerning sexual harassment has been received about once a week from employees and students." The source added that the ad-hoc committee had material mostly compiled prior to the articles.

"I think there is a good bit of consensus for the recommendations by those who have studied the proposals," Elias said. "What will come out [of the CEP] will have wide endorsement."

Assuming the CEP endorses the ad-hoc committee's recommendations, Elias explained that "it's then the Administration's

ball" as to what will be done. He said he expected that the committee's work will be finished after the CEP meeting, except to advise the policy group after its formation.

Undergraduate Association Vice-President Chuck Markham '81, a member of the CEP, said there were two possible routes for reporting complaints: a legalistic mode using hearings and disciplinary committees, and a counseling mode utilizing informal means. He explained that he was "strongly against the

legalistic route" as were others, since the present recommendations include the informal counseling route. "It is easier for someone to talk to their advisor instead of filing formal charges," he said.

Markham stressed that informing the community of the issues involved in sexual harassment is extremely important. "There are many members of our community that need to realize that flashing nudes on the screen during a slide show or making passes in the lab is unacceptable behavior."

Red Cross
is counting
on you
-to help.



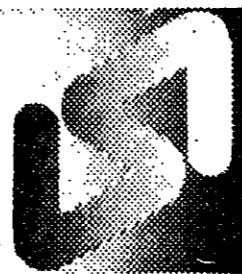
Give blood during the March 5-14 blood drive

CLASS OF '82

The Official Class Jeweler will be in the lobby of building 10 on February 12, 13, 14 from 10am till 3pm and on Friday, February 15, 10am till 2pm. A deposit of \$30.00 is required. Make check payable to Dieges and Clust. Trade in on High School or College Rings accepted.

Dick Weir — Dieges & Clust
Box 14; Malden, MA.02148
Telephone 324-7413 or 367-9069

Your foreign language ability is valuable!



Linguistic Systems, Inc.
116 Bishop Allen Drive
Cambridge, MA 02139

Translations into your native language are needed for industrial literature. You will be well paid to prepare these translations on an occasional basis. Assignments are made according to your area of technical knowledge.

We are currently seeking translators for:

- Arabic • Chinese • Danish • Dutch
- Farsi • French • German • Greek
- Italian • Japanese • Korean
- Norwegian • Polish • Portuguese
- Romanian • Spanish • Swedish and others.

Into-English translations from Russian, East European languages and many others also available.

Foreign language typists also needed.

All this work can be done in your home!

Linguistic Systems, Inc. is New England's largest translation agency, located a block north of the Central Sq. subway station.

For application and test translation call Ms. Tabarié

864-3900

Tired of the Cold? Head for Spring Break in Bermuda

from only \$275
March 22 - 29 (Sat. - Sat.)

price includes:

- round trip airfare
- 8 days/7 nites lodging
- transfers and harbor cruise
- all taxes and gratuities
- daily continental breakfast
- 4 beach parties and lunches
- welcome party with complimentary beer
- guaranteed lowest prices

Space is limited. Don't wait!

Write or call for free brochure:

Adventures in Travel, Group Sales Dept.
1200 Post Road East
Westport, Conn. 06880
(203) 226-7421

or contact your campus representative

Lanier Leonard x5-8393

Adventures in Travel is America's largest operator of college trips to Bermuda.

The Pursuit of Excellence is Worth the Effort

One of the most satisfying human experiences is the investigation of one's own capabilities... the achievement of success not thought possible. Or simply: The pursuit of excellence in personal achievement.

Spectra-Physics, a leader in the development of lasers, laser systems, and chromatography instrumentation, invites you to join us in the pursuit of excellence.

Tues. Feb. 12, 5pm. Attend our Open House slide presentation in Room 12-182.

Thurs. Feb. 14. Interviews will be held for candidates receiving a 1980 BS/MS or PhD as an Electronic or Mechanical Engineer in Product Development, Manufacturing and Sales. Positions for Chemists available in Development, Marketing and Sales. Sign up for an interview at Room 12-170.



Spectra-Physics

1335 Terra Bella Ave.,
Mountain View, CA 94042.

An Equal Opportunity Employer M/F/H

AUDITIONS FEB 24 1980 MEZZ LOUNGE APPLICATIONS and RULES at UA OFFICE (W20-401) or DORM DESKS

SALA de PUERTO RICO
FEBRUARY 29 1980
8 P.M.

INFO:
KATE x3-6799
LAURIE x5-8630
AMY x5-8611
FRANK x5-7201
JENNY x5-8626

M.C.'s NEEDED!

opinion

Editorial 1984

It seems the Administration has come up with a Commons "policy" which, on the surface, is just too good for us to refuse.

We are to be offered points we can use as cash, a refund on unused parts of meal plans, longer hours in the dining halls, a professional review of Dining Service, and a sparkling new computer system to keep track of our diets for us.

Let's look below the surface, though.

Anyone who subscribes to a Commons plan and doesn't use all of it receives a refund at the end of the year. Everyone, that is, except the unfortunate residents of McCormick, MacGregor, Baker, and Next House, who must pay for a minimum number of points each term — minimum is here equivalent to a mere 12 or 13 meals a week for next year's freshmen. As for the East Campus inhabitants, their scrip requirement is fully as oppressive as the requirements of residents of Commons houses. Touting it as a concession to student wishes is a sham.

Every word in Chancellor Gray's announcement points to a desire on the part of the administration to mandate Commons campus-wide. The original report of the Dining Committee first proposed mandatory commons as a way of supporting Commons in some houses and cooking in others. Burton, New House, Bexley, Random and Senior House were to be houses where residents predominantly cooked.

Yet, in Friday's announcement, these dorms are described as ones where "cooking by many of the residents would be anticipated." Many. Not even most. The possibility of opening a new dining hall to handle the overflow of these "cookers" subscribing to Commons is even considered. In fact, while three pages with tables explain the labyrinthine details of the new Commons structure, the programs to support cooking appear as wishful mirages.

Clearly, then, residents of the "cooking" houses will receive the full benefits of the plan with none of the conscription. Current students will likewise relish the newfound freedom of computer points. Only the Class of '84 members choosing to live in Commons houses must bear the brunt of the program which everyone else will adore. Everyone, that is, except residents of Senior House and East Campus, whose hopes for badly needed kitchens have been dashed by the Institute's blatant push for universal commons.

Two noble goals emerged in the Dining Committee's Report. One was to equate value paid with value received. The other was to support both cooking and Commons lifestyles equally, albeit in different dormitories.

Well, victims of combined room and board will certainly need to go further out of their way to get what they pay for than anybody else, since they certainly won't get any of it back. And, evidently, the concept of supporting student cooking has not been embraced by the administration.

Anyone who does not feel the administration is moving toward campus-wide Commons is kidding himself. That includes the Chancellor. If he seriously desires to support two complementary lifestyles he had best be more convincing about it. He had also better devise a plan which shares the benefits and the constraints far more equitably.

The new Commons policy is set to begin, appropriately enough, with the Class of 1984. The Administration seems to be going out of its way of late to bring out the irony of that. This is certainly the latest step. Big Brother would be proud of Commons 1980.

Happy Valentine's

The class that brought you pie assassins on Class Day, and a brass rat beaver that looks like it just found out about the tuition increase, now presents the first annual Swap and Shop Valentine's Day Dance, complete with a computerized dating service. If this excursion through new lows in taste is not your idea of an ideal Valentine's Day, we'd like to offer the following ways to pass the time:

- Call home to mother.
 - Buy your girlfriend a subscription to *The Tech*.
 - Give your favorite professor a kiss (chocolate, of course).
 - Wear red socks.
 - Smile at the administration — it's only for one day.
 - Give blood.
 - Remember, toad sexing is permitted.
- But, above all, show some love to somebody.

The Tech

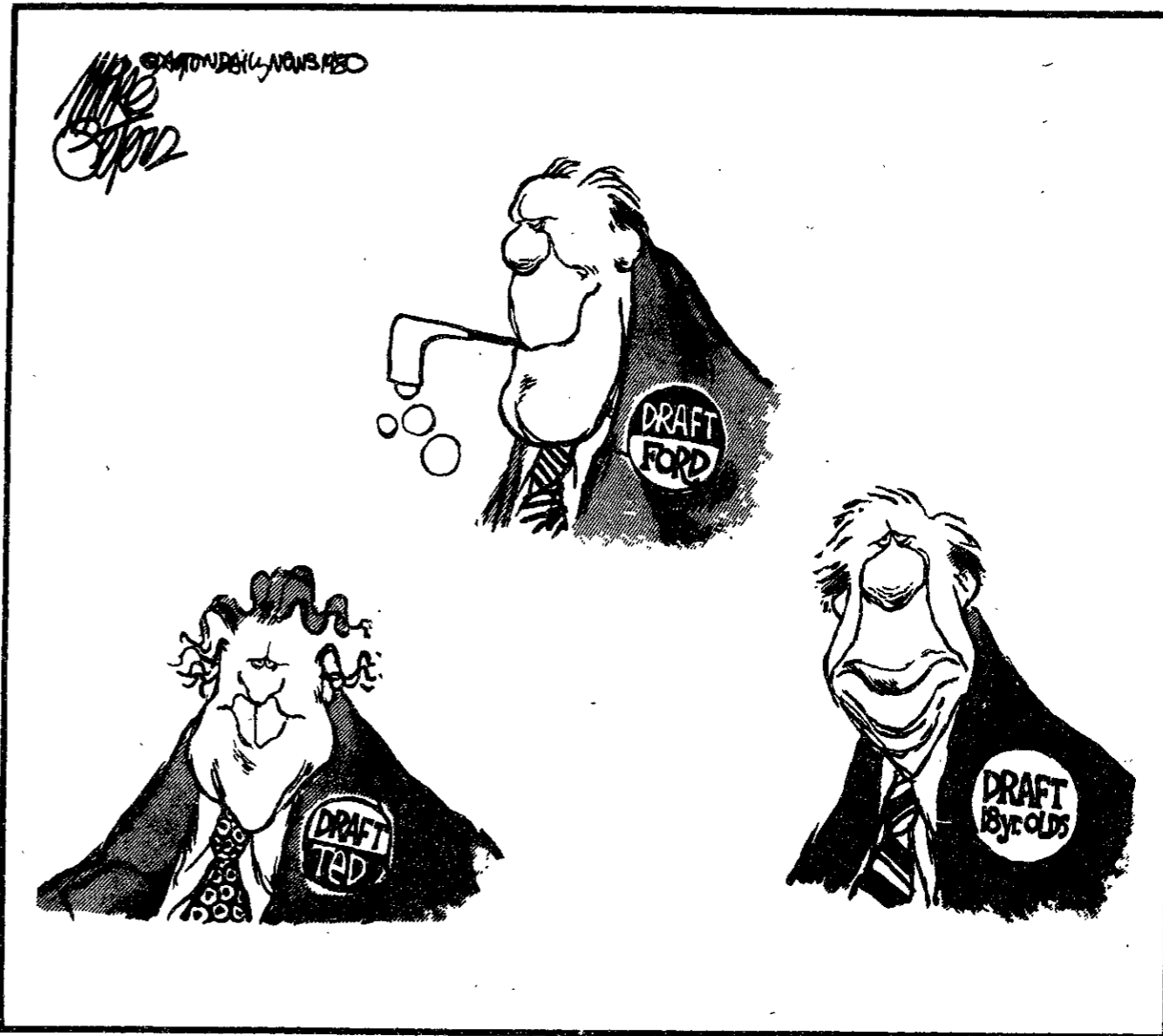
Stephanie L. Pollack '82 — Chairman
 Steven L. Solnick '81 — Editor-in-Chief
 David G. Shaw '81 — Managing Editor
 Michael L. Taviss '81 — Business Manager
 Gordon B. Hunter '80 — Executive Editor

Volume 100, Number 3
 Tuesday, February 12, 1980

SPORTS DEPARTMENT

Sports Editors: Bob Host '81, Rich Auchus '82; Staff: Dennis Smith '81, Eric R. Fleming '83, Robert Labarre '83, Steve Kim '83, Arlene Santos '83.

The Tech (ISSN 0148-9607) is published twice a week during the academic year (except during MIT vacations), weekly during January, and once during the last week in July for \$7.00 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. © 1980 *The Tech*. Printed by Charles River Publishing, Inc.



Stephanie Pollack

The dilemma of the draft

Green is not my color. I look horrible in khaki. Maybe that's why I never seriously considered joining the military. If President Carter has his way, however, I may some day have to put up with an uncomplimentary wardrobe. And that looks to be the least of my troubles, as far as the draft is concerned.

I know, I know. Carter has only proposed draft registration, not actual conscription. It's hard to believe, however, that having a bunch of college students fill out forms is going to be enough to rescue our ailing volunteer army or scare the Russians into non-aggression. If national fervor is enough to push registration through Congress, there's no reason to believe that a full draft couldn't follow if no progress is made on the issues that aroused the hawks in the first place.

When I first heard about the possibility of reviving draft registration, my immediate reaction was one of anger and refusal. There was no way I was going to sign my own death warrant to prove to the Russians that Jimmy Carter is serious (serious about

getting re-elected, that is). The more I think about the whole situation, however, the more uncertain I become about what I will do if actually confronted with an ultimatum to register or suffer the currently quite strict penalties.

In fact, I think one of the more intelligent things that Congress could do about registration would be to wait and let people straighten out their thoughts on the matter. According to one published news report, it would currently take the US twenty-one weeks to organize for a full scale war. With registration, this time would be shortened by only two weeks. What's the hurry?

Congress and the administration could use the time to get their act together, too. Americans need to know exactly why we are reviving registration and who will be affected in order to make rational decisions and establish their opinions. The Soviets also will be impressed only by definite, forceful decisions. As it now stands, the politicians are still mucking about, deciding exactly who needs to be registered to best impress the Soviets.

Although the State of the Union address gave no specifics, the media generally reported that 18-26 year olds would be affected by registration; no attempt was made by the administration to correct this impression. Now, it seems that nineteen and twenty year olds will be enough to start with. Why? Is this an arbitrary decision, has someone calculated the optimal size of the armed forces, or is it a ploy to reduce the pool of opposition? Not that I'm trying to drag my older friends into the army with me, but I find it difficult to believe incapacitation sets in upon one's twenty-first birthday; when I tease seniors about being over the hill, I'm just kidding.

The other major question the government has yet to resolve is whether women should be registered for possible conscription into non-combat roles. I'm not real keen on getting shot at, but if they're making my brother risk his life, I feel somewhat obligated to try and help him survive, if only by serving in a non-combat role. On the other hand, it

(Please turn to page 5)



Opinion

Can registration be justified

(Continued from page 4)

seems that the majority in Congress may not share my view. This country could end up appearing amusing rather than menacing to the Russians if we attempt to demonstrate our national resolve and unity by spending months squabbling over whether or not to draft women.

Of course, haggling over administrative "details" is pointless without first justifying the existence of draft registration. Why is it necessary to take this step now? The consensus seems to be that it's just one of the series of steps taken recently to indicate US disapproval of the invasion of Afghanistan. On this basis, deciding whether or not to register simply becomes a matter of deciding whether the Russians should be reprimanded, and, if so, whether draft registration will serve as an effective warning.

Unfortunately, it appears that the reasons for the renewed interest in registration are more complex than mere Russian-baiting. One indication of this is the fact that proposals dealing with both registration and conscription surfaced last spring, before most people had even heard of Afghanistan. One of the problems is a continuing concern over the health of the all-volunteer forces. Of course, registration only addresses this

problem if one assumes that registration will be followed by actual conscription. Another possible justification parallels the arguments for mandatory national service for young people — serving in the armed forces is considered to be a responsibility of every citizen.

As the situation now stands, therefore, I can be certain of neither why registration is being revived, nor exactly who will be affected. This makes it quite difficult for me to settle my position on this issue, which very strongly affects me and many of my friends. There are plenty of anti-draft groups around to give me their side of the story, and I'm listening eagerly. I'm waiting, however, to hear the administration's version. So are a lot of other people I know. I'm not sure how long we're willing to wait before giving up and giving in to overwhelming peer pressure and the anti-draft view. Is that what Carter is waiting for?

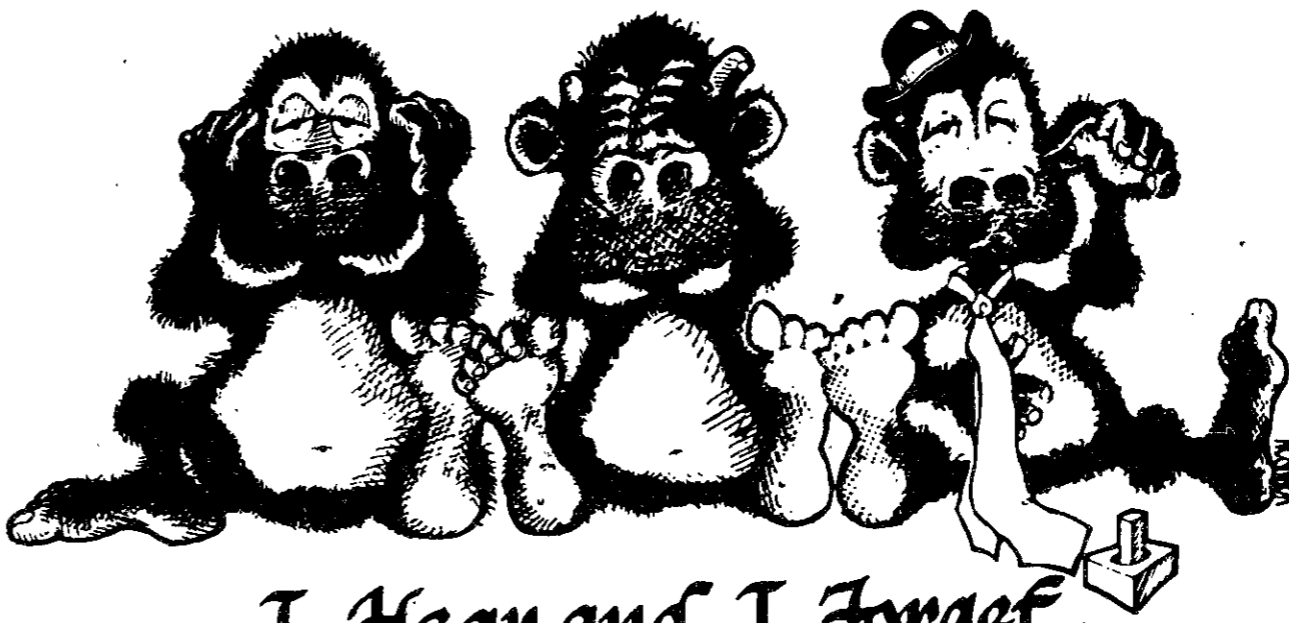
Editorials, which are marked as such and printed in a distinctive format, represent the official opinion of *The Tech*. They are written by the Editorial Board, which consists of the chairman, editor-in-chief, managing editor, executive editor, and news editors.

Columns are written by members of *The Tech* staff; those marked only by the author's name are by regular columnists, those bearing the notation "column" are written by other staff members. Guest columns are written by individuals at the invitation of the Editorial Board. All columns represent the opinion of the author only, not necessarily that of the rest of the staff.

Letters to the Editor are written by members of the MIT community and represent the opinion of the writer.

The Tech will attempt to publish all letters received, and will consider stories. All submissions should be typed, preferably triple-spaced, on a 57-character line. Unsigned letters will not be printed. Authors' names will be withheld upon request.

Writing papers no longer has to be boring. Do them on biking! Writing papers can be interesting and fulfilling. The Boston Area Bicycle Coalition can provide resources and information. Call John at 783-0391.



*I Hear and I Forget
I See and I Remember
I Do and I Understand
— Confucius*

Celebrate UROP's 10th Birthday.

**Buy a T-shirt in lobby 10:
Feb. 13 and 14, 10am-4pm**



NOW THAT YOU'VE GOT WHAT IT TAKES . . .

Creative solutions to complex technological problems have earned our company a solid reputation for overall excellence. We believe that new and recent graduates can provide valuable insight and technical vitality in an environment which encourages professional growth and respects individual contributions.

We welcome candidates with BS or MS degrees in Electrical Engineering, Computer Science, Physics, Math, or Mechanical Engineering to investigate opportunities at Sanders in the following areas:

SOFTWARE DEVELOPMENT: Graphic displays; information processing; signal analysis; minicomputer applications; data base; simulations; real-time applications.

CIRCUIT & SYSTEMS DESIGN ENGINEERS: Automatic test equipment; receiver and R.F. systems technology; electronic countermeasures; signal processing systems for real-time control; microprocessors and bit slice computers; graphic displays systems; antenna design; radar systems.

Come join us on the forefront of technology and make the most of what you've got.

Interested candidates please sign up for our campus interviews on

Monday February 25

Sanders Associates, Inc., is an international leader in the design and development of Advanced Technology electronic and electro-mechanical systems and products. Our success in providing innovative systems to meet widely varying defense and commercial needs has been proven over a quarter of a century.

Today, annual sales exceed \$168 million with employment of 4,000 in Nashua, Merrimack, and Manchester, New Hampshire. Our southern New Hampshire location—with no sales or income tax—provides us with the best of two worlds. The mountains and the ocean are close at hand, yet we are only 45 minutes from Boston, Massachusetts.

Leading Where Others Will Follow . . .



SANDERS ASSOCIATES, INC.

An Equal Opportunity Affirmative Action Employer M/F

Gray denies move to all-commons campus

(Continued from page 1)

seconds" meal plans. That is, next year's freshmen in these houses will be required to purchase at least \$380 of Institute scrip per term.

Students not on the mandatory meal program may also purchase scrip and points, with the additional benefit that any unused scrip or points will be refunded at their cash value at the end of the term. This is also true for students on the mandatory program, except that no refunds will be made if less than the minimum required amount is used.

Many students have expressed concern that this is the first in a series of moves to an all-commons campus. Gray denies this is so. "There is no expectation on my part that we will move to an all-commons mode," he stated. He then added, "We don't have the facilities, and to do so would be to ignore the architecture of certain dormitories, such as New House and Burton-Conner, that were specifically designed to allow students to do their own cooking."

Gray would not comment on where it might be, however, stating it is "too soon to pin it down." Dean Philips '81, a member of the original COCD, stated it would probably be in New House.

Dan Perich '81, another member of the original dining review committee, is concerned about the non-commons parts of the plan and their implementation. He said, "East Campus is left hanging in the air and there are no Senior House kitchens yet." He then commented that while full figures were available at Friday's meeting on the commons programs, no numbers could be given on the other aspects of the plan.

Undergraduate Association Vice-President Chuck Markham '81 shares these concerns. "I'm concerned about full implementation, but my primary concern is that there be full student participation in all parts of the dining program . . ."

UA President Jonathan Hakala '81 was unavailable for comment.



Joan Mondale was at the Hayden Gallery last Friday to meet some of the artists involved with the "Arts on the Line" exhibit. (Photo by Kevin Osborn)

"There is no expectation on my part that we will move to an all-commons mode. . . We don't have the facilities. . . ."

Another concern is that the only all-women's dormitory on campus, McCormick, is one on the mandatory commons program. At Friday's meeting, Gray announced that a serious effort is being made to make a cooking, single-sex dormitory area available to women by next fall.

Hughes is news

We make engineering and scientific history year after year. Like 1976, when five Hughes-developed satellites went into orbit.

If you come to work with us, we'll both make news in your home-town paper.

Help Hughes Aircraft Company make news. And electronic miracles. And history. (And no airplanes.) Ask your placement office when Hughes recruiters will be on campus.

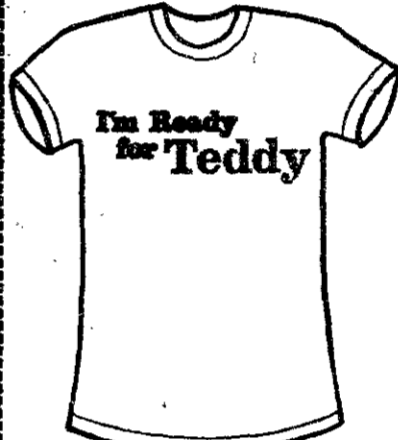
HUGHES

Creating a new world with electronics

AN EQUAL OPPORTUNITY EMPLOYER M/F

SEND A MESSAGE TO JIMMY...

wear a **TEDDY-T!**



BLUE AND RED OR LIGHT BLUE, YELLOW, OR WHITE

SIZES

MEN'S: S, M, L, XL, XXL / WOMEN'S: S, M, L

MEN'S: \$7.99 (\$9.99 for XXL) + \$2.00 Handling*

WOMEN'S: \$7.99 + \$2.00 Handling*

California Residents add 6% Sales Tax

(# to 8 Weeks Delivery)

Send Check or Money Order (U.S. only) to
DAY ENTERPRISES
DEPT. 1 • 412 SPRADER
SAN FRANCISCO, CA 94117

ANTI-NUKE?

SAY IT LOUD!



BLACK AND RED OR YELLOW T-SHIRT

SIZES

MEN'S: S, M, L, XL, XXL / WOMEN'S: S, M, L

MEN'S: \$8.99 (\$10.99 for XXL) + \$2.00 Handling*

WOMEN'S: \$8.99 + \$2.00 Handling*

California Residents add 6% Sales Tax

(# to 8 Weeks Delivery)

*\$1.00 will be donated to ANTI-NUKE Movement Committee

Send Check or Money Order (U.S. only) to
DAY ENTERPRISES
DEPT. 1 • 412 SPRADER
SAN FRANCISCO, CA 94117



W20-467
MIT Student Center
84 Massachusetts Ave.
Cambridge MA 02139
(617) 253-4882

The MIT High School Studies Program is looking for volunteers to teach:

Government	Anthropology	Poetry
Ecology	Matrix Algebra	Set Design
Forensics	Comparative Theology	Psychology
Newtonian	Russian	Digital Logic
Mechanics	Yodeling	Zoology
Philosophy	Freud	Ginsburg
Tiddly-Winks	Quantum Mech	You Name It

to High School Students who want to learn. On Saturdays, from March 8 - May 10, at MIT.

For more information,

call or write by Feb. 15th.

Intercity Cares

for **Elderly, Children, Disabled**



In their own homes in your community.

YOU earn extra cash.

YOU are part of a TEAM that gives the BEST CARE. Because we are bigger and better than any other Homemaker Agency in Massachusetts, we give YOU and the people you care for the best agency support.

Intercity Homemaker Service, Inc.

An equal opportunity employer

Call 321-6300 ~~~~~ 623-5210

A Stable Force Designing The Future Varian Associates

At Varian Associates, we are proud of our reputation as a high technology leader. The Palo Alto, California, facility is concerned with all phases of research, development, design and manufacture of traveling wave tubes, klystrons and gyrotrons - the newest microwave tube.

If you are receiving a Bachelor of Science Degree in:

- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering
- Physics

Then, our representatives would like to discuss your plans for the future when we visit your campus on:

February 26, 1980

Make it a point to visit with us and discover for yourself why Varian is a stable force shaping the future. Check with your placement office to make an appointment.

We offer a creative work environment, a superb benefits package, and opportunity for advancement and continued education.

Should you be unable to meet with our representatives, learn more about Varian Associates by contacting our Employment Office at 611-TD Hansen Way, Palo Alto, California 94303. We are an equal opportunity employer m/f.

varian

Kresge's deterioration traces roots to 1950's errors

by Laura Farhie

Editor's Note: this is the first part of a two-part review of Kresge's problems.

After several mistakes in the past twenty-five years as to the choice and implementation of outer roof material for Kresge Auditorium, the Physical Plant believes that the standing seam copper roof which will be put on this spring will be "permanent."

"The roof we are putting on this time is conventional," says Bill Dickson, Director for Physical Plant. "It's been used for hundreds of years." The standing seam copper roof will consist of long, eighteen-inch wide strips of copper soldered together tightly so as to be completely waterproof.

Troubles with the outer roof coating began as soon as Kresge was completed in 1955. The application of the original cinder-concrete cap and acrylic plastic to the Kresge shell was a then-new process. The first roof was put on too fast in wet weather. The shell later began to wrinkle and crack, allowing water to seep in and permeate the insulation.

Six months after the building was finished, a new outer roof was applied. This time a new formula of acrylic was implemented. It was mixed with "Fibreglass" and beach sand to give an appearance of weathered limestone. However, it also began to wrinkle and crack, and by 1961, Physical Plant was looking for a new roof coating.

According to Dickson, the two roofing mistakes were no one person's fault. The original decision to use acrylic was an agreement made by the original architects' the structural consultants' the general contractor and Physical Plant. However, it was not the structural consultants (Ammann and Whitney of New York City) who recommended the acrylic, but rather the original architects, Eero Saarinen & Associates, who felt it would be "sympathetic to the building."

MIT's maintenance engineers were also cited as sharing partial blame, in a report sent to the architectural consultants, (Anderson, Beckwith and Haible, a firm whose senior members were MIT professors) on July 19, 1963. The report said, "MIT's maintenance engineers, who, incidentally, collaborated on the original design, watched in dismay as violent and unexpected thermal stresses weakened and destroyed the outer layer of the shell's three-layer system. Their observations taught them a valuable lesson in the behavior of multiple-layer shells..."

In the summer of 1961, the architects attempted to coat the roof with diamond-shaped plates of lead-coated copper. However, when designers tried to join sample sheets together, there were intersecting problems. Where four diamonds came together at the corners of the pattern, the craftsmen found twelve thicknesses of sheetmetal piled up. The process of making these corner joints was found to be much too slow to be practical.

When asked why these problems were not anticipated beforehand, Dickson replied, "The intersecting problems only occur once you pick the pattern." Dickson stated that the process in which the copper will be put on the roof this spring was not thought of in 1961 because of "anchorage problems".

Unable to make a copper roof, the designers made the mistake of specifying an acrylic polymer binder with a liquid-applied covering of fine limestone chips.

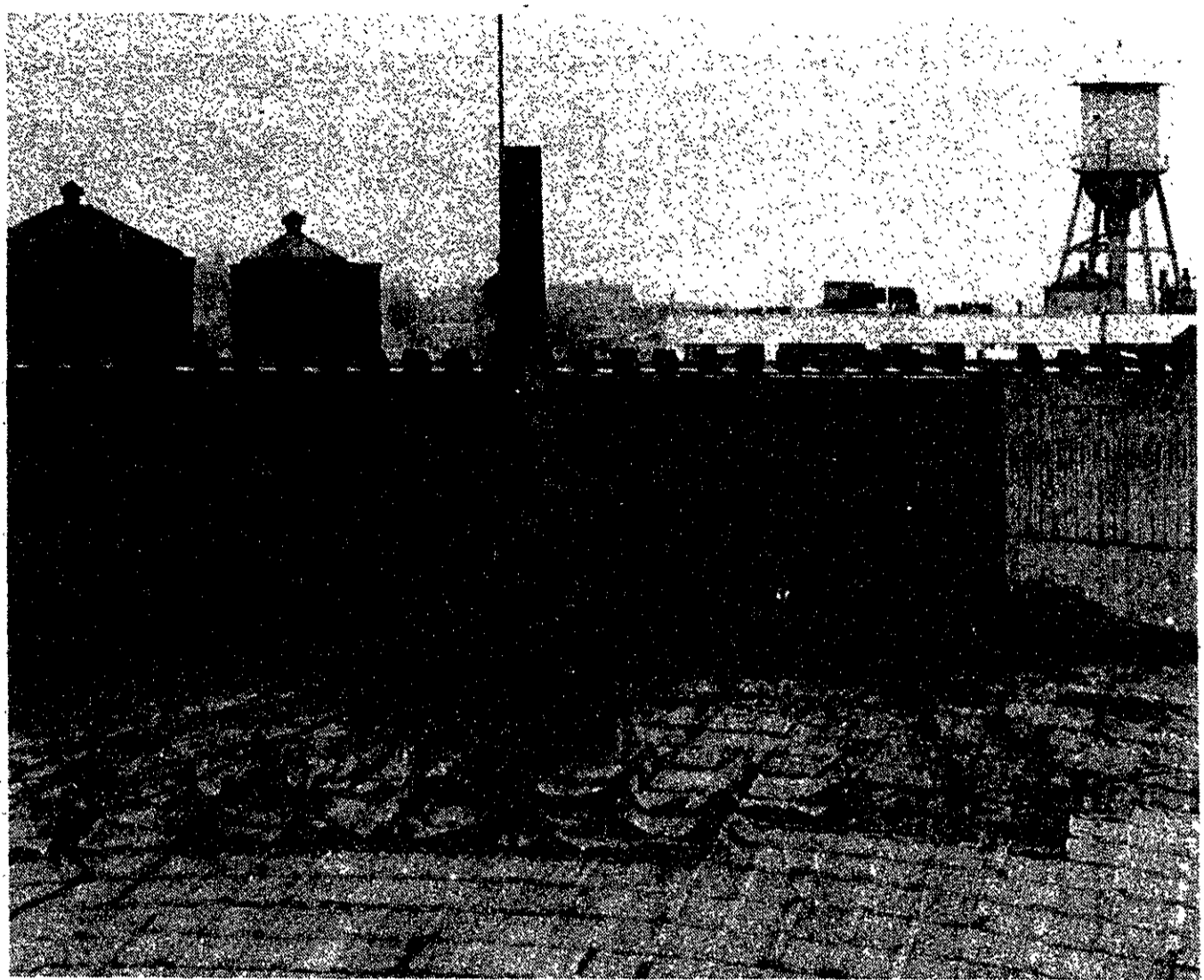
The report to Anderson, Beckwith and Haible cites a description of what happened with the newly-implemented roof: "In service the roof sustained

pronounced differential heating. At times, one side of the roof would be covered with snow; the other side, completely dry, would be baked by a brilliant winter sun. Steep temperature gradients occurred across the thickness of the roof system, too. The inside surface remained fairly constant (because the auditorium is air conditioned) while the outside surface temperature varied with changes in the weather.

The result of the uneven heating of the roof system was unequal expansion and contraction of the elements of the system. Because the lightweight concrete acoustic layer was unconnected to the structural shell, expansion of this element could accumulate across wide areas of the roof surface. To relieve the stresses induced by thermal expansion, faults developed in the concrete layer and caused surface irregularities as great as 1/2 in. At the edges of the shell where the concrete top fill butted against a structural edge beam, the flashing was destroyed.

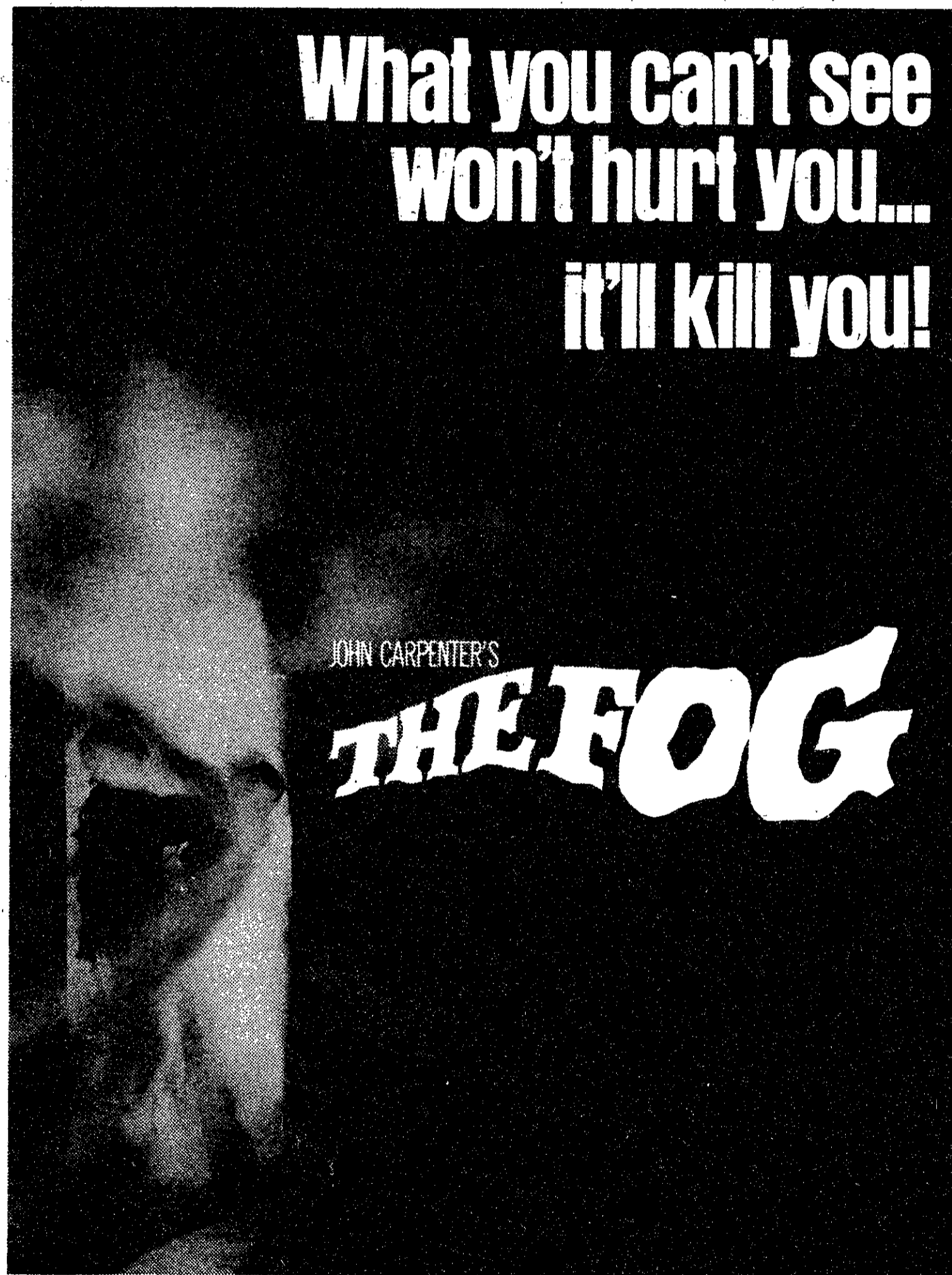
Water entered the roof system through these first openings and lodged under the top layer of con-

(Please turn to page 11)



Workmen get the lead out and lighten the load on the Kresge Roof. (Photo by Matthew B. Alschuler)

What you can't see
won't hurt you...
it'll kill you!



JOHN CARPENTER'S

THE FOG

JOHN CARPENTER'S "THE FOG" A DEBRA HILL PRODUCTION
Starring ADRIENNE BARBEAU, JAMIE LEE CURTIS, JOHN HOUSEMAN
and JANET LEIGH as Kathy Williams

and starring HAL HOLBROOK as Father Malone

Produced by DEBRA HILL. Written by JOHN CARPENTER and DEBRA HILL. Directed by JOHN CARPENTER
Executive Producer CHARLES B. BLOCH an ENTERTAINMENT DISCOVERIES, INC. PRESENTATION. Read the BANTAM Book

AVCO EMBASSY PICTURES Release

From the creator
of "Halloween"
comes the ultimate
experience in terror.

R RESTRICTED
UNDER 17 REQUIRES ACCOMPANYING
PARENT OR ADULT GUARDIAN

Opens February 15 at a theatre near you.

The Winery: the one restaurant to go to

The Winery, Pilot House, Lewis Wharf, Boston, Mass., 523-3994.

The winery does not serve exotic food, nor does it cater to the "high class" person who looks like a big tipper. What it does is serve a slightly limited menu concentrating on quality rather than variety. If I reported that the service was "alert and attentive" or "professional and well-mannered" or any one of the trite catch-all phrases reserved for such an establishment, I would be doing *The Winery* and its staff an unforgivable disservice.

When you enter, you are greeted as you would expect to be greeted at a private club. Immediately upon sitting down, the waiter appears and introduces himself. He remarks that you will receive a complimentary carafe of wine with your meal, takes your drink orders and invites you to indulge in the salad bar.

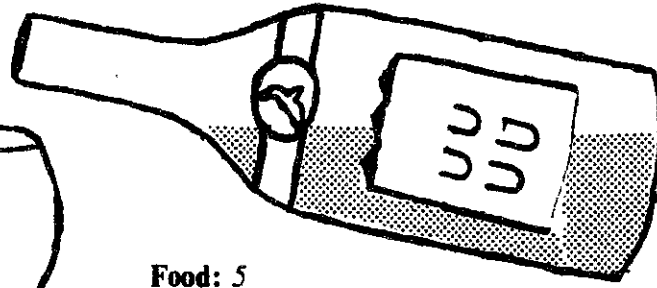
When the drinks arrive, you are munching a crisp salad. The salad bar is of the same variety of those seen in *Beefsteak Charlie's* or *Salad Days*. The dressings served are surprisingly good. Sometime during the next few minutes, your order is taken. The waiter informs you that your food will be cooked to order, commenting that you may instruct him as to when you would like it to arrive.

The main course and the wine have arrived. As you would expect, the food is attractively served, but it is truly, truly extraordinary-tasting. I never enjoyed a seafood meal as much as this one. The scallops were cooked to perfection with a hint of garlic. The Filet of Sole Almondine was as much of a treat as could be desired.

The service really outdoes any local restaurant when it becomes obvious that the staff is secretly spying on the condition of the wine and water glasses at the various tables. If at any point during the meal the contents of a glass falls below half full, it is promptly refilled. The waiters entertain you with marvelously witty conversation but also are silent when it is appropriate.

The atmosphere is wonderful. The restaurant commands a view of Lewis Wharf and the water. The wooden beam floors are decorated with large rugs. The

wooden tables are accented by inlaid wooden designs. Along the walls and ceiling are rustic wooden beams. There is a distinct lack of noise. There is no clatter of dishes or silverware, nor can any kitchen noises be detected. The acoustics are such that intimate conversation is possible.



Food: 5

You will certainly be impressed. The dishes that I sampled were fabulous, and I am told that the others, various beef dishes included, are as pleasing. I would not have them change a thing; the cooking and use of spices were flawless.

Atmosphere: 5

Cozy and romantic.

Price: 5

A wonderful dinner for two can be had for less than twenty dollars, wine and unlimited salad bar included.

Service: 5

Without a doubt, *The Winery* offers the finest service I have ever encountered. I had the good fortune to be taken care of by the head waiter, Tony. Tony has only one rule: he demands the finest from his staff, and he sets an outstanding example. Working with Tony should be required training for waiters in every restaurant. Bravo Tony!

Overall: 5.0

I congratulate *The Winery* on being the first restaurant that I have reviewed to score perfectly on all the grading criteria. This will be a tough act for any restaurant in any price range to follow. If you could only go to one restaurant in Boston, *The Winery* should be the one.

Jonathan Cohen

The Undertones is overdone

103 The Undertones. Sire Records SRK6081.

I have to start this off by explaining that I love the Ramones. I had read a lot about the Undertones being "the Irish Ramones," so as soon as I saw their album on sale, I bought a copy.

Things looked promising as I peered at the cover during the bus ride home. All five guys in the band look pretty scruffy. Two are wearing black leather jackets; one is busily rubbing his eye with his index finger.

I was further impressed as I pulled out the record and put it on the turntable. Side one has eight songs. All run 2:36 or less, and half are under two minutes long — certainly an indication of quality in my book.

As soon as the music started, it was clear that these were not the Irish Ramones, but rather the Irish Buzzcocks.

The songs are lively and bouncy, with arrangements much more like the Buzzcocks' than the stone age madness of the Ramones. The vocals are varied, with the

rest of the band backing Feargal Sharkey occasionally.

One thing that I don't like is the number of blatant "girl songs" on the album. A band that can clearly write interesting lyrics (listen to "Male Model," about a guy frustrated all his life in his attempts to become a clothes model) has no excuse for a song where half the lyrics are "What can you do/When the girls don't like it?" repeated over and over. Don't get me wrong — it's a fine tune. It just has rather slim social relevance, as far as I can tell. And too many other songs on the album are like that.

My other major complaint about the record is the excessive production. Sharkey's voice is interesting enough without filtering and doubling, and there's lots of compression and overdubbing throughout. I really prefer to listen to simple, real-sounding recordings.

In all, *The Undertones* is a worthwhile record. I suspect it will have the same ap-



peal as the Buzzcocks' *Singles Going Steady* — to people who want to graduate from FM power pop to light, energetic new wave. I hope their next album will have better lyrics and less tricky production but will keep the intensity, diversity, and fun displayed in their first release.

— Jon von Zelowitz

FRESHMEN! SOPHOMORES! Try the Basic Outlook on Life.

If you're starting to look at life after college, try our "basic" outlook. Apply for the special Two-Year Army ROTC Program during your sophomore year. Attend a six-week Basic Camp this summer and earn \$500. It's tough. But the people who can manage it are the people we want to serve as officers in the active Army or Reserves. Do well at Basic and you can qualify for the Army ROTC Advanced Program in the fall. You'll earn \$100 a month for 20 months your last

two years in college. And the opportunity for a two-year full tuition scholarship. You'll also receive the extra credentials that will distinguish you in whatever you may choose. Try our "basic" outlook on life.

CALL:

CAPTAIN DAN JOHNSON
494-8710
MIT Campus Bld. 20E Rm. 126

ARMY ROTC.

THE TWO-YEAR PROGRAM.

This End Up 1980 won't let you down

This End Up 1980, directed by Stephen Rosenfield, with Martin R. Anderson, Brad Jones, Karen MacDonald, and Lanie Zera. At the Next Move Theatre through April 27.

"Do you think they'll notice when we're gone?" the Gilbert Stuart portraits of the Washingtons ask each other in the Next Move Theatre's all new comedy revue *This End Up 1980*. If that question were asked about the Next Move or the current production, the answer would surely be a resounding yes from all of Boston.

Using a simple set and few costumes or props, the show's four players create situations to successfully poke fun at everything from dating to presidential politics. With the wide variety of material the company has chosen to use, there is truly something for everyone.

Brad Jones ribs himself in the opening for having a rubber face. The rib is not quite fully understood by the audience until they have seen him in action in routines like *Roommates*, *The Comedy Olympics*, and *Love Us Tender*.

In the *Roommates* skit, Jones and Martin Anderson play a pair of college roommates who are both supposed to be hard at work in their double. Without saying a single word, they express all the frustration and anger roommates feel when one is trying to work silently and the other is noisily settl-

ing in to his work. Before long, they embark on a war of annoying little sounds like opening squeaky drawers and sharpening an entire box of pencils. The beauty of the piece is that there are no drawers or pencil sharpeners or pencils on the stage. The entire scene is mimed, with the actors making all the sound effects vocally.

The Comedy Olympics has Jones playing an Indian comic. All of the jokes are told in nonsense syllables, and all seem to end in the same punchline. Jones' intonation and rhythm, as well as the pregnant pauses before each punch line, were reminiscent of a Henny Youngman routine.

Jones' third outstanding routine is our introduction to the First Church of Elvis. He comes out as a priest wearing a plastic hairpiece made to look like the King's own hair. With his three aides, he warns the audience against Elvis imitators for several minutes before launching into his own Presley impersonation.

The most startling routine in the play occurs immediately before the intermission. Just when the audience thinks the lights are about to come up, Lanie Zera walks out on stage in a fur coat and armfuls of jewelry. She proceeds to claim that she is the landlady and she is about to turn the theater into a condo. Zera offers each member of the audience the chance to buy

in at the low introductory price of \$38,000. Wouldn't everyone jump at the opportunity to actually own the seat they sit in instead of suffering the agony of paying \$8 or \$9 each time they wish to see a play?

Martin Anderson turns in a convincing and funny performance in his spotlight scene, *Lullabye*. Teddy Kennedy, the candidate, sings himself and his Teddy bear to sleep with lamentations about driving,

"... the show's four players create situations to successfully poke fun at everything from dating to presidential politics."

cheating on exams, girlfriends, bridges, and getting mommy's permission.

In other skits, Anderson gives the impression that he is capable of playing a limited number of character types. He plays unflappable Englishmen, a trial lawyer advertising on television, and a husband with a communication problem. All of these characters are severely limited in the range of emotion they express.

Karen MacDonald supports the other three with fine performances when she ap-

pears with them, but does not really shine in the skits intended to be her spotlight scenes.

Even the accompanist and musical director, David Evans, gets into the act. He has a running gag about playing some serious music for the audience. Evans claims to have written a sonata based on the life of Edgar Allan Poe. For various reasons, the audience never gets to hear more than the first five bars or so of the sonata. At first, he cannot find the manuscript for the piece, and once, he becomes disillusioned with serious music due to the audience's enthusiastic response to the lighter portions of the show.

Although the show is billed as a revue with music, often the music is secondary. A musical skit about the T and one about Harvard Square are the outstanding songs of the show. None of the four voices are outstanding, but Jones and MacDonald are particularly expressive in the musical numbers.

"*This End Up 1980*" is an enjoyable evening of laughs and fun. The atmosphere is very intimate since the theater is quite small. The audience leaves feeling amused at yesterday and optimistic about tomorrow, and very warm about the characters they have just met.

Gary S. Engelson

YOU'RE GRADUATING... WHAT'S NEXT?

Have you really thought about your future? We have. Because at Lawrence Livermore Laboratory the future is being shaped every day by people like you.

Lawrence Livermore Laboratory is a mission-oriented research and development laboratory devoted to the achievement of specific technical goals through multi-disciplinary team effort.

As an innovator in several diverse areas the laboratory offers you a unique career opportunity to continue learning where it really counts—your career. You will not only be given the freedom to grow in a challenging environment, but also the opportunity to explore areas of individual interest.

If you're a recent graduate with a basic or advanced degree in engineering, computer science or a computational discipline, see us on campus at your placement office, or contact us for more information about our many career opportunities by sending your resume to: Lawrence Livermore Laboratory, Attn: Employment Division, P.O. Box 808, Dept. JCN, Livermore, CA 94550. U.S. citizenship required. An Equal Opportunity Employer M/F/H/V.

LOOK FOR US ON CAMPUS

February 13

**LAWRENCE LIVERMORE
LABORATORY**

We've got a future for you.

MIT Republican Club returns to support party activities

By Sarah Bingman

A small group of Republican MIT students has revived the Republican Club of MIT for the purpose of "promoting the ideals of the Republican Party and sponsoring activities to achieve this purpose," according to club president Winthrop Cody '82.

"We are focusing most of our attention on the primaries right now," explained Cody. "We want to bring the candidates to the students' attention and then they (the students) can decide for themselves."

The club's most recent attempt at this was a Lobby 10 booth display during IAP used to inform students of the various Republican candidates and their respective campaign platforms. Concurrently with the display they held a straw poll, which Representative John Anderson won, and a membership drive that joined 30 more students to their ranks.

At a recent meeting, club members emphasized the club's policy on campaigning. Although individuals may support certain candidates, "the club as a whole doesn't support anyone."

In that light, the club has invited all nine Republican presidential candidates to speak on campus. Rep. John Anderson responded by addressing the MIT community at the Sala de Puerto Rico on Jan. 31. This event was co-sponsored by the Lecture Series Committee (LSC), which has invited all presidential candidates to lecture here. The Republican Club will also sponsor candidate Harold Stassen, ex-governor of Minnesota to speak

on Feb. 13; and candidate Ben Fernandez, a Mexican-American businessman from California, to give a talk here on Feb. 25.

Cody says the club's function is not merely to support Republicanism but the whole political process. "We support the Republican Party, but we encourage everyone to vote."

To help MIT students achieve a better understanding of politics, the club plans to hold a mock Republican convention in April. Operating under guidelines established by the organization, each dorm and fraternity will select undergraduate delegates and departments would choose graduate delegates, in numbers proportional to the size of the living group or department. Delegates will decide upon a party platform comprising of such issues as energy, inflation, and the draft. "The club will be used as a sounding board for ideas forming the planks," explained Cody. Prepared debates on issues are planned for the club's weekly meetings. "We will not get into candidates' stands,

but issues within the club and party," he added.

After the presidential elections Cody said he sees a great potential for the MIT Republican organization in local and state politics. Cody hopes to work with state senators and congressmen. "We will also try to sponsor debates and bring speakers," he explained. Cody also hopes students from other area colleges, such as Boston University and Harvard, will join in these activities.

The Republican Club was reorganized at MIT last November by Cody after several years of inactivity. Cody said he saw a lack of Republican support on this campus as compared to other Boston area universities. The Executive Committee of the Association of Student Activities approved the club as an official student organization during IAP.

The club is a member of the Massachusetts College Republican Union, an alliance of Republican students and support group for campus organizations such as the MIT affiliate.

MIT-Red Cross Blood Drive

March 5-14

Call TCA at x3-7911 for details

Who's Hughes?

First to develop a synchronous-orbit satellite, Syncom, initiating the whole era of space communications.

First in high-technology electronics.

Your first employer after graduation, perhaps! Before graduation, ask your placement office when Hughes Aircraft Company's recruiters will be on campus.

HUGHES

Creating a new world with electronics

AN EQUAL OPPORTUNITY EMPLOYER M/F

ON THE TOWN

MIT

Sharon Zuckerman will give a Solo Flute Recital including works by Teleman, Bach, Fukushima, Dahl, and Bozza. February 14, MIT Chapel, noon. Free.

MOVIES

Off the Wall's Great Cartoon Series continues with **The Great Cartoons of Max & Dave Fleischer**, Disney's chief rivals during the Twenties, Thirties, and early Forties. Showings Feb. 8 through 14 daily at 6, 7:55, 9:50 plus Fri./Sat. at midnight at the "Where's Boston" theater, next to Faneuil Hall. Information: 354-5678.

MUSIC

John Gibbons will perform G.F. Handel Suites for Harpsichord at the Museum of Fine Arts on Tuesday, February 12 at 7pm. Tickets are available at the M.F.A Music Room, Bostix or at the door. For information, call: 267-9300, ext.340.

Translators

Needed to translate technical documents into French, German, Italian, Portuguese, Spanish, etc. Please call 944-8488 or write P.O. Box 450, Reading, MA 01867.

WE DON'T OFFER JOBS... WE OFFER CAREERS.

There's a big difference. The MITRE Corporation has two major locations, with 11 technical divisions and 63 departments. Our 1573 members of the technical staff provide systems solutions to Federal, state, regional and local governmental agencies. There's plenty of opportunity to grow in responsibility.

Many companies offer you a job which can broaden your career. But when the challenge is gone, most professionals seek a new company with a new job and a new challenge. At MITRE we recognize this need for new challenges and new opportunities. With dozens of sponsors and scores of projects in a wide variety of technologies we offer the opportunity to CHANGE JOBS WITHOUT CHANGING COMPANIES. The direction of your career at MITRE is up to you. We'll help you stay on track through our staff development programs. We offer 100% tuition prepayment and company paid professional growth seminars.

At our facility in Bedford, Massachusetts (just outside Boston), we're looking at all kinds of command, control and communications problems as technical advisor to the Air Force's Electronic Systems Division.

At our McLean, Virginia facility (just outside Washington, D.C.), we're not only working on defense and military systems but also on significant problems in air traffic control; energy resources and the environment; civil

information systems; information management and communications systems; ground transportation and more. Much more.

At either location, opportunities constantly arise to challenge your intelligence, your knowledge, your motivation. In search of solutions, MITRE people use the tools of systems engineering and analysis. If this type of atmosphere intrigues you and if you have a degree (or are about to receive one) in electrical engineering, computer science, math, physics, or economics, we'd like to know more about you. See your Placement Office to set up an on-campus interview, or send your resume directly to:

Jerome P. McKinnon
The MITRE Corporation
Bedford, MA 01730

Ronald S. Hill
Washington Center
The MITRE Corporation
1820 Dolley Madison Blvd.
McLean, VA 22102

MITRE will be at
MIT
on February 25, 1980

THE
MITRE
CORPORATION

MITRE is an equal opportunity employer, actively seeking applications under its Affirmative Action Program.

Kresge's 1963 lead cover proved to be a mistake

(Continued from page 7)

crete. In hot weather, the trapped water vaporized and raised in the concrete topping a bubble that followed the sun across the roof surface. The deformations caused by the travelling bubble cracked the concrete topping even more. It became clear to MIT's engineers that drastic steps would have to be undertaken to save the roof."

In 1963, the school's engineers consulted roofing manufacturers for advice. Carl Peterson, then Director of Physical Plant, said, "They arrived confident they could solve our problem, but when they learned the extent of our trouble, they left, glad that the problem was ours, not theirs."

MIT's engineers then considered whether or not they should strip the roof down to its shell to eliminate expansion of the layers. The engineers decided against it, not wanting to tamper with Kresge's acoustics and thermodynamics or the obstacle of some electrical conduits and hanger rods. Also, stated Dickson, there was not nearly as much water trapped in the layers in the early 1960's as there was this past fall, when the roof had to be stripped.

According to the October 10, 1962, issue of *Tech Talk*, the Physical Plant experts decided that lead sheets would be best for the Kresge roof. Dick Collins, then the administrative assistant to Peterson, encouraged the idea, and Professor Herbert L. Beckwith was a strong supporter.

However, Professor Lawrence Anderson, Beckwith's business associate, said, "Nobody asked my advice on the lead."

Stainless-steel wire forming 2x-2" grids was bolted into the concrete shell. Diamond-shaped lead sheets were then sealed into each square with a lead burner. *Tech Talk* cited one advantage as the fact that the expansion of lead could be contained within the squares, so that each square could be replaced individually.

Over the years, the lead began to crack, especially around the stainless steel wire. Water began to seep through the roof and flow down to the concrete abutments, causing deterioration. Dickson stated that at first, lead squares could be replaced by burning the lead together, but as some cracks grew larger, strips of lead had to be burned over them. However, as there became an increasingly large number of cracks, and the deterioration of the concrete abutments became apparent, it became evident that Kresge would have to be reroofed with copper.



Photo by Matthew B. Alschuler

We're all tied up!

Help us out - join

The Tech

THE LEADING NEWSMAGAZINE AT THE LOWEST PRICE.



Because you attend college you are eligible to receive TIME, the world's leading newsweekly at the lowest individual subscription rate, just 35¢ an issue. That's BIG SAVINGS off the regular subscription rate of 59¢ an issue and even BIGGER SAVINGS off the \$1.25 newsstand price.

And it's so simple to subscribe—just look for the cards with TIME and its sister publications, Sports Illustrated, Fortune, Life, Money and People. They are available at the college bookstore or from your local TIME representative:

Alan and Debrah Anacki
42 Pearl St.
Bridgewater, MA 02324
617-697-6192

classified advertising

Wanted: One or more copies of SRI RAMACHARITAMANASA of Goswami Tulsidas Gita press edition.

Wanted: People to assist in providing energy facts and weekly radio feature. For more info, call 603-429-0420 (or 603-465-7253 nights)

1955 PORSCHE SPEEDSTER
Exc. road condition, 66,000 km Yel body/blk int/chrome wheels/ski rack 1600N engine 31 mpg Peter Seferian, 7 Emily st., Camb. 02139. 876-3892 during work hours

Computer Science Students
Do your programming at home! Access MIT's computer with your own ASR3 teletype - has stand, tape punch/reader, all auto features, and built-in acoustic modem \$450. 782-6554.

Gold and silver refiner needs someone knowledgeable in the smelting, refining, and casting of precious metals. This person should be available some nights and part of the weekend. Compensation is very substantial. Call Mr. Casey, 485-2289.

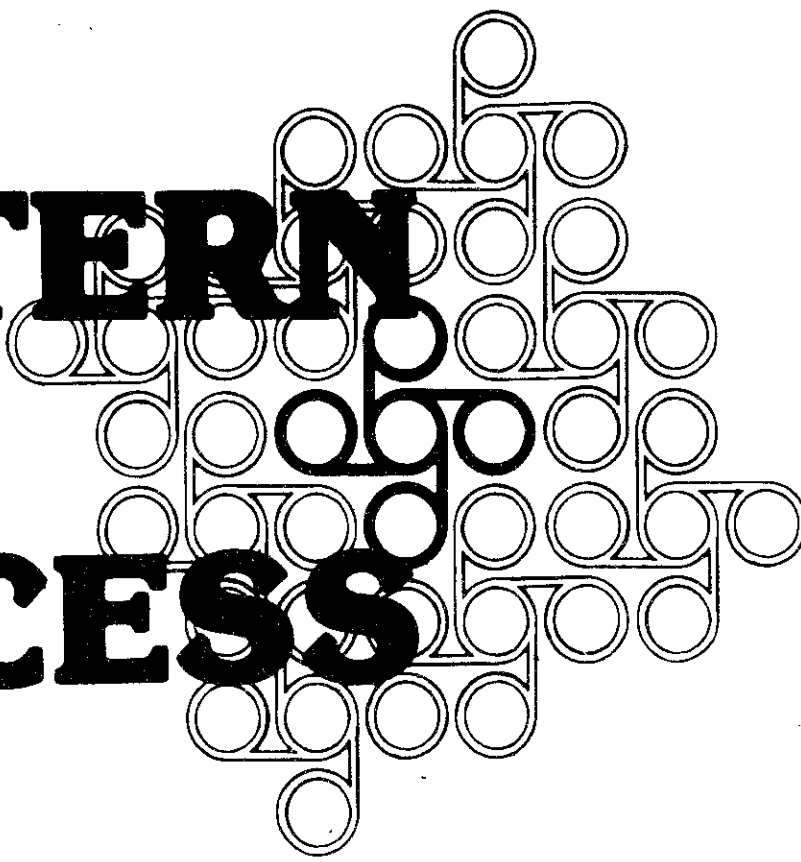
Co-owner(s). Professional couple seeks co-owner(s) for lovely 16-room 1855 home in Newton Centre. Near lake, MTA, school, park. Box 62, Newton Highlands, Ma. 02161

Dear Eddie,
Happy Valentine's Day.
With all my Love
Jacquie

Dear Vallant/Dart Owner,
Congratulations on owning the best Detroit could manage. But, as you know, even the best needs care occasionally. At our garage we can do any mechanical or body work your car requires. We have most of the parts that tend to need replacement in stock.
We also repair and maintain other makes of American and foreign cars. Come in (8 am-6 pm) or call for advice and an estimate.
J & S AUTOMOTIVE
277 Northampton Street
(Next to Piano Craft Guild)
267-0300

**Fit Into
Our**

PATTERN OF SUCCESS



**Find Out
How At
Our**

**Wednesday & Thursday
February 13 & 14
4:00 - 8:00 PM**

OPEN HOUSE

Our pattern of success began in 1968 when key contributors from Lincoln Labs, developers of the modern approach to computerized time-sharing, joined members of the investment research group from White, Weld, Wall Street's pre-eminent investment analysts, to form the Interactive Data Corporation.

From this beginning, we now excel domestically and internationally in our problem-solving capabilities for the financial marketplace, continuing to grow because of the technical competency and interpersonal qualities of our employees.

People are, then, essential to our success. See how you fit into the pattern. Meet with Managers from the following areas:

COMPUTER SYSTEMS DEPARTMENT

The Computer Systems Department develops and supports Interactive Data's sophisticated systems software capabilities. Our major areas of activity include Operating Systems, Communications Networks, Data Base Management Systems, and File Systems, along with numerous general timesharing products.

As a leading supplier of international remote computing service products, Interactive Data relies heavily on its ability to provide a high quality, state-of-the-art operating environment. Members of the Computer Systems Department are a key to the success of this environment. Working in teams, our contributors find themselves among a group of select professionals who are dedicated to producing quality, sophisticated software.

To those professionals who join us, we offer an exciting and challenging career as well as the opportunity to gain significant diversity of experience.

We are currently looking for:

- Network Development Manager
- Systems Programmers
- Software Architects

DYNAMICS ASSOCIATES

Dynamics Associates develops and supports computer-based products and consulting services in four business lines: econometrics, corporate finance, investment analysis and marketing planning. Our major software product is XSIM, a large-scale system for information management and analysis available on Interactive's international time-sharing network. Our clients include major corporations and banks located throughout North America and Europe. We have a reputation for providing state-of-the-art products, highly knowledgeable support and consulting, and excellent reference, training, and marketing materials. We are committed to maintaining that reputation by expanding and tailoring the products and services we offer to the needs of our marketplace.

Much of Dynamics' success can be attributed to the people who work here. A group of over 70 highly trained professionals work closely together to meet the needs of our clients. Typically, product development and consulting involve teams composed of programmers, writers and consultants.

We offer new challenges to:

- Writers
- Consultants
- Systems Programming Professionals
- Applications Programmers

CASH MANAGEMENT PRODUCTS GROUP

The Cash Management Products Group (CMPG) is a leader in the development and operation of electronically-based cash management services. We help major corporations and banking institutions throughout the United States and Europe to locate their cash, forecast requirements, and move funds to where they are needed. Our services, available on Interactive Data's extensive communications network, enable them to manage their short-term assets more effectively.

The market for our services is large and growing and we have a history of growth and expansion. The outlook for the 80's is equally bright. Our staff of professionals has earned for us a reputation as a major supplier of the highest quality cash management services. For example, the automated transfer processing system developed for one of the world's largest international banks moves billions of dollars each day.

This challenging environment offers opportunities for rapid professional growth and real personal satisfaction. Grow along with us as we explore new technological capabilities and expand our service applications in a dynamic, exciting field.

Demonstrate and develop your potential as:

- Programmer/Analysts
- Senior Programmer/Analysts

SECURITIES PRODUCT COMPANY

The Securities Product Company of Interactive Data Corporation specializes in providing high quality computer-based services to the financial community. Our customers are the largest domestic and international banks, insurance companies, and investment management companies with needs in the investment research or portfolio management areas.

We provide the largest and most complete series of commercially available securities related databases and have developed applications specific software to enable customers to easily and efficiently utilize this data. We interact closely with our domestic and international Field Marketing and Consulting force in addition to responding directly to the needs of our clients. We have developed specific expertise in the areas of Modern Portfolio Theory, Fixed Income Analysis, Options, Commodities, Portfolio Management, Investment Performance and International Investing.

Talented individuals with a knowledge of finance or investments who have the desire to work with people in solving important investment problems with computer-related tools should meet with us. We are the largest IDC division and are rapidly growing in terms of sales and opportunity.

Come and talk with us about positions available in:

- Database and Applications Programming
- Product Management

Bring a resume, bring a friend. You'll find our OPEN HOUSE at 486 Totten Pond Road, Waltham, just off Route 128 at Exit 48-E. We promise a warm reception and "munchies" between 4:00 and 8:00 p.m. on Wednesday, February 13 and Thursday, February 14. For more information, contact Randi Arendt at 895-4047.



• INNOVATE • CONTRIBUTE • EXCEL

Interactive Data Corporation

Equal Opportunity Employer F/M

A Subsidiary of Chase Manhattan Bank

comics

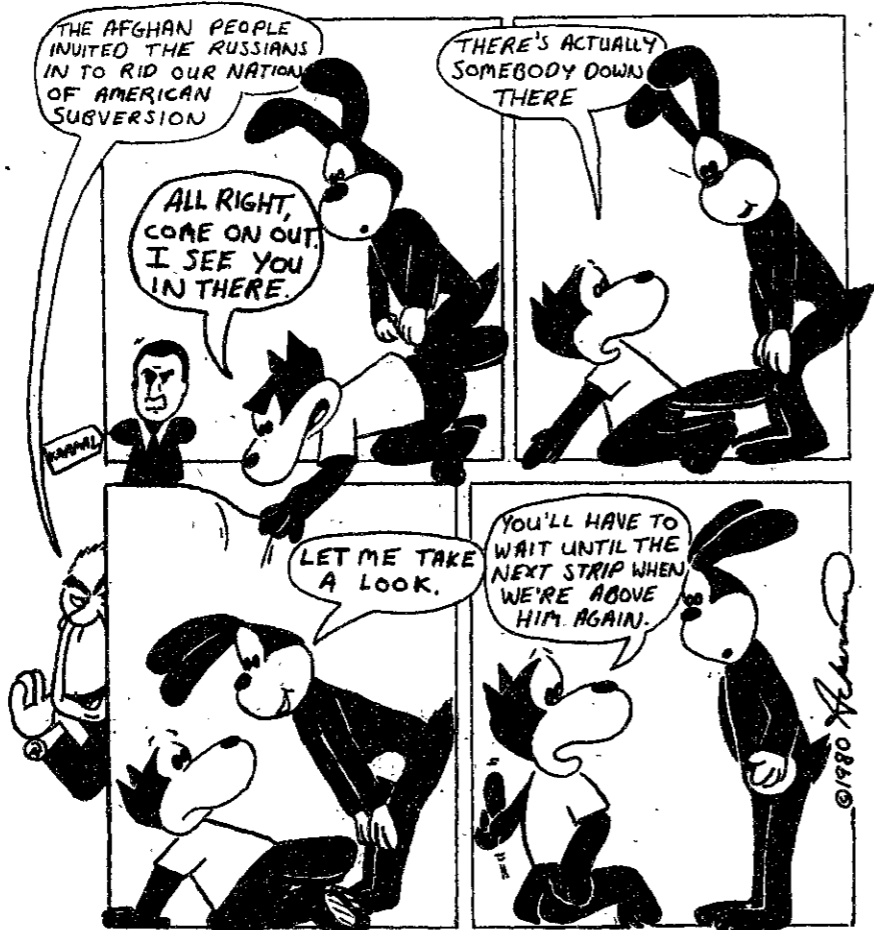
Dybosphere
By Appleman,
Plotkin, and Bradley



Stickles
By Geoff Baskir



The Beaver
By Glenn Ackerman



Paul Hubbard
By Kent C. Massey



The UA News will be appearing Tuesdays in *The Tech*. It will act as a voice of the Undergraduate Association to the Student Body. Students are encouraged strongly to respond to the listed announcements.

Call to Order

There will be a meeting of the General Assembly on Thursday, February 14, 1980. The meeting will be in Baker Dining Hall and will commence at 8:00pm. All members of the MIT community are most welcome to attend. Refreshments will be served.

Agenda

1. Announcements.
2. Resolution to thank the MIT Alumni Association for opening positions for students on committees.
3. Formation of Ad Hoc Class Constitution Committee.
4. Motion on behalf of the Nominations Committee regarding the Community Service Fund Board.
5. Nominations for GA Finance Board Seats.
6. Discussion of national draft registration.
7. Discussion of Dining Committee Report.
8. Adoption of the Report by the Ad Hoc General Assembly By-Laws Committee.

GA Working Group on Standing Committee Relations Review

There will be a meeting of the Working Group on Wednesday, February 13, at 7:30pm in Student Center Room 400. The Working Group will be concluding its recommendations to the General Assembly on By Law revisions of the Nominations Committee and Steering Committee.

The Working Group will also begin conducting hearings on the Student Center Committee operations, By Laws, and finances during the meeting.

For more information contact Arnold Contreras, Working Group Chairman, at x5-6262.

UA NEWS GET YOUR ACT TOGETHER

The All-Class Talent Show is here again!! Auditions are on February 24. Applications are available in the UA Office, W20-401, or at dorm desks. MC's are also needed.

- For more information call:
- Seniors Kate x3-6799
 - Juniors Laurie x5-8630
 - Sophomores Amy x5-8611
 - Freshmen Frank x5-7201
 - MC's Jenny x5-8626

SPECIALS FOR VALENTINE'S DAY "SWAP and SHOP"

On Valentine's Day there will be the first annual Swap & Shop Valentine's Day Dance, sponsored by the class of 1982.

LIVE BAND FREE REFRESHMENTS (bring your ID)

Tickets are on sale in Lobby 10 and at Wellesley College for \$1.50 each. When you purchase your ticket, please fill out the short questionnaire and you will be matched up with the date of your dreams — thanks to the marvels of modern technology. If you are not satisfied, swap with a friend and shop for another.

FLOWERS FOR VALENTINE'S DAY

The Classes of '80 & '82 will be selling flowers on Valentine's Day in Lobby 10. Carnations will be 75 cents each and roses will be \$1.50 each while they last.

VALENTINE'S DAY SERENADES

If you care for someone — colleague, friend, or loved one, let him/her know this Thursday, Valentine's Day. Have the MIT Logarithms serenade that extra special person. For information, call Mark Dewitt at 247-8355.

CLASS OF '81

Class of '81 T-Shirts and football jerseys are still available in most sizes. T-shirts \$3.50; jerseys \$10.00. Call Jenny at x5-8626 or Laurie at x5-8630.

SPRING IS COMING

SPRING WALKATHON

The March of Dimes will be running a booth in Lobby 10 during the week of March 3rd from 10am until 2pm. The purpose for the booth is to register students for a walkathon which they are sponsoring. If you are interested, sign up in the UA office (room 401 in the Student Center) or at the G.A. meeting.

SPRING WEEKEND '80

The UA Spring Weekend Committee needs help! Please call the UA office x3-2696, to sign up.

CLASS OF '83

Steve Lazar '81 will be coaching freshmen on class projects in the coming spring season. If you are interested, please call the UA office, x3-2696. A luncheon will be scheduled soon.

Finance Board Meeting

There will be a regular business meeting of the Finance Board on February 20, 1980, at 7:30pm in room 400 of the Student Center. If you need to bring up business at the meeting, please see Tom Colton, FinBoard Chairman, prior to the meeting, so that your request can be put on the agenda. Tom can be reached in room 405 of the Student Center.

STOP BY

The UA has many projects in the workings. Please call or stop by if you have any ideas or would like to help. If you have any comments or suggestions please contact Jonathan Hakala (UAF) or Chuck Markham (UAVP) or leave a message with the UA Secretary. The UA office is located on the 4th floor of the Student Center room W20-401. Telephone is x3-2696.

A limited number of summer research fellowships for MIT undergraduates will be awarded this spring under the **Eloranta Fellowship Program**, intended to support summer research or study projects and associated travel. Any MIT undergraduate may apply, including seniors whose summer projects would actually occur after graduation. Students must submit a written proposal outlining plans for a summer project, including an indication of how the project will contribute to his/her educational objectives, how the project will be carried out, the support available, and a budget. Letters of recommendation should be included. Proposals for the summer of 1980 should be submitted before March 24, 1980, to Ms. Norma McGavern, UROP office.

* * * *

Alpha Phi Omega is holding an Open Meeting this Thursday night at 7:30pm in 26-110. All students are invited.

* * * *

The office of the Provost is sponsoring applicants for the **New York City Urban Fellows Program**. Qualified seniors and graduate students may apply for an internship for a full academic year which carries with it a \$4,800 stipend with an additional \$500 awarded by MIT. Any academic credit must be arranged separately. Application forms in 4-246. For more info, call Dr. Louis Menand, x3-7752.

* * * *

Students interested in a position on the 1980 R/O committee are urged to leave their names in Room 7-105 as soon as possible.

* * * *

MIT has been invited to nominate students for summer intern positions in the Federal Summer Intern Program.

The Federal Summer Intern Program was developed to give students practical experience in some phase of federal activity related to their individual career fields. About two-thirds of these summer intern positions will be located in the Washington, DC metropolitan area, and the remainder distributed throughout the country. Weekly salaries range from \$193.20 to \$396.40 depending upon the grade level of the position offered.

The MIT Office of Career Planning and Placement encourages interested students who will have completed their sophomore year by June 1980 and who are US citizens to take advantage of this opportunity. For further information and applications, see Tricia Murphy at 12-170 between the hours of 9am and 3pm. Applications must be submitted to the Placement Office by Feb. 29, 1980.

* * * *

Noam Chomsky will lecture on "The US and the Third World in the Post-Vietnam Era" Wed., Feb. 27, at 8pm. Tickets are

available for \$3 from Ticketron and Brandeis University Student Service Bureau. For more info, call 647-2167.

* * * *

Graduate Students: Applications for advanced degrees in June 1980 must be returned to the Registrar's Office, E19-335, no later than Friday, February 22, 1980.

* * * *

News editor notes

Club Latino MIT is having a Valentine's Dance, from 9pm-2am in Burton Dining hall. There will be a live Latin band; disco and salsa music during intermission. Sangria will be served. Admission is \$2.00 for members of Club Latino and \$3.00 for non-members.

* * * *

Student Activities: The UASO is currently revising Chapter 11 of the 1980 Freshman Handbook, "Extracurricular Activities." If your group has *not* received a memo from UASO, and is interested in being included in the descriptions, please stop by 7-105 by this Friday.

March 1 is the deadline for picking up refunds for the Sea Grant-sponsored IAP Seafood Fest, originally scheduled for January 17. The event was cancelled after Legal Sea Food in Cambridge was badly damaged by fire.

* * * *

Many of the 110 people who had signed up for the luncheon have not claimed their refunds. They should do so as soon as possible by bringing their receipts to Sea Grant's offices in Building E38-308.

Indian musician, artist, and poet Sri Chinmoy will play "music for meditation" at Paine Hall, Harvard University, on Sunday, February 17, 4-5pm. Admission is free. For more information, call 523-0218.



TELETHON '80

February 17-28 in the Bush Room SIGN UP NOW!!
Grads and Undergrads will be calling MIT alumni from across the US & Canada to raise money for the IRDF & CRF (these funds provide money for independent living group and dormitory renovations).

Prizes and trophies will be awarded to individuals and living groups throughout the evenings and at a Thank You Party in March.

For more information contact Brenda (x8214) in the Alumni Fund.

....Oh yes, and there will be free pizza too!



IH offers you all 4 reasons!

Excellent Lifestyle.

International Harvester operations are located in cities like San Diego, Fort Wayne, Louisville, Moline, and the Chicago suburbs. You get the best of both worlds: urban culture and amenities and the countryside but a short drive away. Or, if you want total cosmopolitan excitement, IH World Headquarters is on the "Magnificent Mile" of Michigan Avenue, in Chicago.

Challenging assignment.

The new IH is on the march. Technological advancement, design leadership, marketing impact and management excellence are major targets. You'll be challenged from the start to stretch your mind, present ideas, reach for breakthroughs.

Stimulating environment.

The new IH atmosphere is dynamic. The latest state of the art is being sought for every activity. College graduates will be instrumental in meeting the technological challenges of the future. The effect is catalytic, energizing and inspiring, for newcomers and long-timers alike.

Solid future.

IH builds basic machinery to provide the most basic needs of people worldwide: food and fiber, transportation, construction, energy. No other company has a greater combination of trucks, agricultural equipment, construction and industrial equipment, turbo machinery, and components. Few companies offer you a future based on such critically important needs.

International Harvester Company will be interviewing on February 21 in the placement office.

An Equal Opportunity Employer M/F



INTERNATIONAL HARVESTER

We Transcribe Tapes of Conferences, Seminars, Interviews

Don't wait weeks or months! Do type it while it is happening!

Whether you have taped a 30-minute field interview or a 50-hour conference, no service in New England can type it faster than we can. We will save you time, anxiety and money.

129 TREMONT ST. BOSTON 423-2986
 127K MASS AVE HARVARD SO
THE SKILL BUREAU

sports

foul shots

Heidens lead US team to Lake Placid Games

By Bob Host

The thirteenth edition of the Winter Olympic Games begins tomorrow in Lake Placid, NY, amid controversy, and with a shaky future facing the entire Olympic movement.

This year's Olympic Games, like many in the past, are beset with financial problems. Lake Placid officials maintain, however, that the approximately \$200 million venture will not leave a deficit when the Games end. In addition to sporting facilities such as skating rinks and ski slopes, other necessities such as improved roads and communication centers have been built with the money.

After the Games are over, the buildings comprising the Olympic Village where the athletes are housed will be turned into a minimum-security prison. A room for two athletes that measures 7½ x 13 feet will be turned into an individual cell, complete with narrow windows.

In addition, although the prices of gold and silver have gone up drastically in recent months, the supplier of Olympic medals has agreed to hold prices back to those existing during pre-boom days. However, the original sketch of the medals had to be revised because the Lake Placid Olympic Organizing Committee (LPOOC) disagreed with the design.

Although the United States traditionally puts on a strong show at the Summer Olympics, this country's performance in the winter version raises few eyebrows. Seldom are US participants in the Winter Games household words, whereas track and swimming stars are usually well-known for months preceding the Summer Olympics.

One exception is the speed skating brother-and-sister team of Eric and Beth Heiden. Of the nine speed skating events this year, the Heidens are favored in seven. Eric has been mentioned as a possible gold medal winner in all five mens' events: the 500, 1000, 1500, 5000, and 10,000 meter races. In addition, Beth is favored in two of the four women's events.

Another US performer who is expected to perform well is Linda Fratianne, who at 19 is considered the best American female figure skater. Although she weighs less than 100 pounds, her speed and agility are acknowledged as second to none. Having undergone an operation to repair a deviated septum, Fratianne practices from daybreak until 6pm nearly every day.

This year's edition of the US hockey team may surprise international observers who expect the sport to again be dominated by eastern European countries. Coach Herb Brooks has had his team play against some of the best teams in North America, including squads from the National Hockey League (NHL). The

reasoning may pay off; the Soviet Union is scheduled to enter its national team, which has also competed against NHL teams over the last few years.

Although the US has more skiers than any other country, it was not until the 1976 Games that an American won a medal in the

cross-country event. The USSR and Finland will be favored in the 70- and 90-meter ski jump events, although this country may pull off a surprise here.

The United States put on its best show at any Winter Olympic Games the last time they were held at Lake Placid — back in

1932. Those Games represented the first time the United States hosted a Winter Olympics, and the Americans captured six gold, four silver, and two bronze medals. With the present state of world affairs casting a long shadow on this summer's Olympic Games in Moscow, the Lake

Placid Games may represent the last Olympics, winter or summer, in the form in which we presently know them. Such a turn of events will only serve to demonstrate how out of place politically symbolic acts are in a competition that has become far too politicized already.

Forget all-nighters with...



MORE LEARNING IN LESS TIME by Norma Kahn

Here's a concise, practical handbook on techniques for studying more effectively and quickly. Written expressly for you, the university student, the book covers: notetaking in various situations; preparing for and taking exams; preparing a research paper; improving concentration; and much more. With this book, you won't have to burn the midnight oil... ever again.

#6043-2, \$3.50

Available at THE COOP, Boston College, University of Massachusetts, and other campus bookstores!

HAYDEN BOOK COMPANY, INC.

50 Essex Street, Rochelle Park, NJ 07662



wcrb 102.5 fm



24-hour Classical Music

Please call or write WCRB for a free bumper sticker - 893-7080

Electrical Engineering and Computer Science Majors

San Francisco Bay Area Computer and Computerized Telephone Equipment Manufacturer seeks talented individuals interested in:

- Telephony
- Microprocessor Applications
- Digital and Analog Design
- CPU and Memory Design
- Real Time Systems Software
- Data Communications Software
- System Programming Languages
- Hardware/Software Interfacing
- Test Engineering
- Production Engineering
- Field Engineering

ROLM Corporation, located in Santa Clara, California, has grown 50 - 100% each year and currently has 2600 employees. ROLM's Telecommunications Division is the leading independent supplier of computerized PBX's (CBX) and microprocessor controlled telephones. ROLM's Mil Spec Computer Division offers a complete line of rugged general purpose minicomputers.

Included in ROLM's outstanding benefits package is a three month paid sabbatical after six years (and every seven years thereafter). Company paid tuition and time off for Graduate Study at Stanford, and flexible working hours.

On Campus Interviews Monday, March 3, 1980

Meet with Working Hardware and Software Engineers from ROLM in the Placement Center. See our Company Literature in the Placement Center.

If unable to attend an interview, send resume to:

Gibson Anderson
Engineering Group Manager
ROLM Corporation
4900 Old Ironsides Drive
Santa Clara, CA 95050

We are an equal opportunity/affirmative action employer.

ROLM

CORPORATION

PRATT & WHITNEY AIRCRAFT GROUP

A division of
UNITED TECHNOLOGIES

will be
**ON
CAMPUS**

FEBRUARY 26, 1980

to interview candidates
for attractive opportunities
in HIGH TECHNOLOGY

Consult your Placement Office
for degree and field of study
requirements

An Equal Opportunity Employer



UNITED TECHNOLOGIES

ANY U.S. BOOK IN PRINT

ORDERED BY TELEPHONE
DELIVERED DIRECTLY TO YOUR
HOME OR OFFICE

ALL MAJOR CREDIT CARDS ACCEPTED
OUR 8TH YEAR WORLD WIDE

844-8060/7 DAY-24 HOUR
SERVICE

COOPERATIVE BOOK SERVICE
OF AMERICA, INTERNATIONAL
Reading, Massachusetts 01867 U.S.A.

sports

Women's basketball splits w/Wellesley & Emmanuel

By Steve H. Kim

After coming off a successful 41-36 effort against Wellesley last Wednesday, the women's basketball team returned to Rockwell Cage on Saturday to face a strong (10-6) Emmanuel team.

It has been a roller coaster season for Tech so far this year. They have lost by as much as 36 and 31 points to Stonehill and Wheaton, respectively, but have rolled over Pine Manor 69-30 and Suffolk 72-28. Still, the Engineers went into the game as the top defensive and rebounding Division III team in the East. Five ft. 10 in. Lisa Richardson '82 and 5 ft. 9 in. Donna Wilson '82 lead the squad on the boards with 7.5 and 7.2 rebounds per game. Playmaking guard and co-captain Karen Samuelson '81 and forward Joyce Kelly '83 provide ample offensive support with respective scoring averages of 13.2 and 11.2 buckets a game.

For the Emmanuel game, Coach Jean Heiney elected to start Samuelson and the other co-captain, Susan Flint '81, in the backcourt with Wilson jumping off at center. Kelly and Kate Mulrone '80 started at the forward spots.

MIT began play with a 2-1-2 zone while Emmanuel utilized a player-to-player defense. A combination of errant passes and quickness on the part of both teams started the game off at a fast pace. Emmanuel was more able to run the quick transition offense against the Engineer zone, and the Saints took off to a 22-10 lead when Heiney called timeout at 8:53 in the first half. She was obviously trying to get her team to cut off the fastbreak that the Saints were using very effectively against her 2-1-2 zone. The Engineers took the court again and were able to play almost even with Emmanuel until halftime. The Saints led at the half, 32-18. One of the key statistics in the first half was the field goal percentages of the two teams. Emmanuel shot 45 percent from the field whereas the Engineers

made an anemic 27 percent of their shots.

MIT came out with an aggressive press defense, falling back into a new 1-3-1 zone under the basket in the second half. The strategy worked for a while. The Saints seemed to be unnerved by the press and committed more turnovers. Yet, to play an aggressive, running defense like the full-court press, a great deal of bench support is necessary due to the exhausting court coverage required of the players. With only eight players on the squad, bench strength is something the Engineers are sadly lacking. Thus, they were unable to keep up pressure for long.

The Saints took off on their fastbreak again and led by as much as 27 points during the second half. The exhausted Engineers were unable to get back in time to set up on their defense. Consequently, they were often burned by the Saints' running offense. The final score was 61-38. Coach Heiney felt that her

team was outrun and unable to shoot effectively from the inside; these factors were mainly responsible for their play. Forward Joyce Kelly said, "I think that we were being outbounded today. We weren't playing as well under the boards as we usually do."

On defense, it seemed that the Engineers were playing well under the basket when they set up in a 1-3-1. Karen Samuelson agreed. "Today was one of the first times we used that zone, but it really seemed to click for us," she said. Samuelson led the squad with sixteen points, followed by Donna Wilson and Joyce Kelly, both with eight.

When informed of the weak 24 percent team shooting, Samuelson commented, "I think we get the shots, but our players need more confidence in themselves when they take that shot on the court." This year's team is a young one with only two seniors. Hopefully, the squad will develop more confidence with time and experience.

PRETERM

If you have an unwanted pregnancy...

talk with one of our counselors about your decision.

Abortion/Gynecological Care/Vasectomy/Tubal Ligation
A licensed non-profit Reproductive Health Center
1842 BEACON ST., BROOKLINE, MASS. 02146
(617) 738-6210

PRETERM

TYPISTS SECRETARIES
A SPECIAL WEEK IN CAMBRIDGE!

WE'RE BLOWING OUR OWN HORN

BECAUSE we have more immediate job openings than ever! You can enjoy the nicest Temporary assignments in the city. . . . while you are career searching, in between jobs, or in school. Just register at our Cambridge office! Work WHEN you please. . . . part time or full time for a couple days, weeks or months. . . . and WHERE. . . . including research and law firms, universities, hospitals, and banks in Cambridge and Boston! So stay flexible — visit our Cambridge office any day this week for prompt and personal attention. Call or come in to:

Office Specialists®

120 Tremont St., Bos.
357-8300 9-5, Mon.-Sat.
18 Brattle St., Camb.
354-7215 12-5, Mon.-Fri.

GENERAL DYNAMICS GENERAL DYNAMICS GENERAL DYNAMICS

- 1 **El Monte, CA**
American Telecommunications Corporation
- 2 **Pomona, CA**
Pomona Division
- 3 **San Diego, CA**
Convair Division
Electronics Division
Datagraphix, Inc.
- 4 **Fort Worth, TX**
Fort Worth Division
- 5 **Chicago, IL**
Marblehead Lime Company
Freeman United Coal Mining Company
Material Service Corporation
- 6 **St. Louis, MO**
General Dynamics Communications Company
General Dynamics Corporation
(Corporate Headquarters)
Data Systems Services
(Home Office)
- 7 **Montreal, Quebec, Canada**
Asbestos Corporation Limited
- 8 **Quincy, MA and Charleston, SC**
Quincy Shipbuilding Division
- 9 **Groton, CT**
Electric Boat Division
- 10 **Tampa, FL**
Stromberg-Carlson Corporation

LET'S TALK OPPORTUNITIES

Representatives from General Dynamics, a Fortune 100 company with 15 operating divisions throughout the United States, will be visiting your campus to talk to you about our diverse, high-technology programs currently under contract. At General Dynamics you will have the opportunity to work with top professionals on state-of-the-art projects like the F-16. Cruise missiles. Trident submarines. LNG tankers. Sparrow missiles. Digital telephone equipment and more. Plus, depending upon your discipline, your career could start at one of our many locations shown above.

To find out more about high-technology opportunities with one of the high-technology leaders in Telecommunications, Electronics, Tactical Weaponry, Shipbuilding, Aerospace, Data Products and other fields, contact your Placement Office. Or, send your resume to:

Bill Coleman
Corporate College Relations Administrator
GENERAL DYNAMICS CORPORATION
Pierre Laclède Center, CN 50
St. Louis, MO 63105
An Equal Opportunity Employer M/F

FEBRUARY 21

on deck

Tuesday

Women's basketball vs. Salem State, 7pm
Women's gymnastics at Smith with Mt. Holyoke, 6pm
Men's swimming, GBC Meet at Boston College, 5pm

Wednesday

Men's basketball vs. Suffolk, 7:30pm

Keezer's February Sale

All wool overcoats
\$10.00
Leather and Suede
Jackets
\$10.00
100% Wool Sportcoats
\$5.00
New England's Oldest
and
Largest
Used Cloth Store
221 Concord Ave.
Cambridge
547-2455