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The Tech

MIT
Cambridge
Massachusetts

Friday, September 27, 1985

Provost's office faces changes

By Earl C. Yen

The Office of the Provost has undergone structural changes as of July 1, according to Provost John M. Deutch '61.

• Samuel J. Keyser, former head of the Department of Linguistics and Philosophy, will fill the newly-created post of Associate Provost for Educational Policy and Programs.

• Keyser will supervise the Office of the Dean for Student Affairs (ODSA), which was formerly under Vice President Constantine B. Simonides. Dean for Graduate Education Frank E. Perkins '55 will report to the new associate provost as well.

• Keyser will also supervise the recently-created Office of the Dean for Undergraduate Education (ODUE). Margaret L. A. MacVicar '65 has been appointed Dean for Undergraduate Education. MacVicar is a professor of Physical Sciences and is also the founder and director of the Undergraduate Research Opportunities Program (UROP).

The responsibility of the ODUE is "to give attention to the quality of the undergraduate educational program — its content, balance and how well it serves the mission of the institution as a whole," MacVicar said. Her office is charged with "setting the stage for integrating dis-

cussions about undergraduate life."

"MacVicar is reappraising what undergraduates learn," Deutch said. "She will strengthen and reform undergraduate education."

MacVicar said there was "a growing sense among the faculty that a focus of administrative attention to undergraduate education should be established."

A major purpose of the ODUE is "to discuss whether we are providing the best kind of foundation for our students," she said. "Our graduates will have opportunities to lead and guide the community. The technology/science student will be catapulted into these positions and opportunities."

"Issues such as the training TA's receive, the availability of tutoring and rewards for young faculty members will be brought to my attention," MacVicar said.

The suggestion of creating a Dean for Undergraduate Education has been around for a long time, according to Simonides. The faculty voted in 1971 to recommend that the administration establish a "central person to have an overview of undergraduate education," Simonides said.

Keyser emphasized that the

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Reorganization of the Provost's Office



John M. Deutch '61, Provost.



Samuel J. Keyser, Associate Provost for Educational Policy and Programs.



Frank E. Perkins '55, Dean for Graduate Education.



Shirley M. McBay, Dean for Student Affairs.



Margaret L. A. MacVicar '65, Dean for Undergraduate Education.

Tech Graphic by Andrew S. Gerber '87.

Tech photos by Mike J. Feldman '88.

Student breaks Athena security

By Timothy Huang,
Simson L. Garfinkel and
Craig Jungwirth

Several students discovered a Project Athena security breach on Sept. 18 at the cluster in the Julius A. Stratton '23 Student Center Library, according to Project Athena Director Steven R. Lerman '72.

An MIT student, who Lerman declined to name, had written and left running a "Trojan horse" program on one of the terminals in the cluster. The program emulated the normal Athena login procedure, but actually recorded the usernames and passwords of students attempting to use the terminal.

The term "Trojan horse" is commonly used to describe programs which appear to perform one function but actually perform another, such as recording a person's password.

Project Athena staff immediately disabled the program and identified the offending student when the "Trojan horse" program was discovered. No serious damage resulted from the incident, although the potential for damage was great, according to

Lerman.

The offending student obtained some usernames and passwords, he said. Affected students have been advised to change their passwords.

Lerman does not know how long the program was running in the cluster. There is no evidence that the student used any of the passwords he obtained, according to Lerman.

The offending student has stated that he will never again violate Project Athena's security policies. Lerman added that Project Athena condemns such use of its resources.

Lerman will decide on an appropriate punishment for the student. He is considering revoking the offending student's Student Center cluster account.

(Please turn to page 2)

NomComm nominates student members of MIT committees

By Kyle G. Peltonen

The Undergraduate Association's (UA) Nominations Committee (NomComm) will soon nominate MIT students to 27 Institute committees.

The Committee on Academic Performance, the Committee on Undergraduate Admissions and Financial Aid and the Harvard Cooperative Society's Board of Directors are among the bodies with positions available for student representatives.

NomComm selected students to fill many committee vacancies last spring. Committee members worked five hours per week for nearly two months in an attempt to reduce this term's workload, according to Walter Rho '87, NomComm publicity director. The committee will follow this procedure again this term, he added.

Positions that will be filled this term include: four positions on the IAP Policy Committee; two positions each on the Committee on Library Systems, the Committee on the Undergraduate Program and the Advisory Committee on Women Students' Interests; and one position each on the Committee on Curricula, the Dining Advisory Board and the Pornography Committee.

The nomination process consists primarily of an interview, during which members of NomComm evaluate the candidate's speaking ability, commitment and poise, according to Rho.

Committee members discuss and rank applicants behind closed doors after the interviews are completed. Nominated students must then be approved by the UA before they can actually serve on a committee. UA approval is seldom denied, according to Rho.

NomComm specifically searches for students who will "represent the entire student body," Rho said. The 15 NomComm members themselves are chosen to represent many sectors of the student body.

NomComm was mostly concerned with nominating students to committees in the past, Rho said. This year, NomComm will concentrate on student/representative relations after the fall nominations process is complete.

Rho said that he would like to see greater emphasis on the accessibility of student representatives to the student body.

Students interested in being appointed to an Institute Committee should contact NomComm within the next week.

Tech Coop might relocate

By Stephen P. Berczuk
and David P. Hamilton

A possible relocation of the Tech Coop to Kendall Square is at least one and a half to two years away, according to James Argeros, president of the Harvard Cooperative Society (The Coop).

While stating that The Coop is negotiating with Boston Properties, Argeros emphasized that any possible move is still in the planning stages and that no agreement has been signed.

The Coop has been discussing Tech Coop relocation plans with Boston Properties since January 1980, according to Dave Barrett, senior vice president of Boston Properties. Boston Properties is the developer of the Cambridge Center site.

"We had in mind the possibility of designing facilities [in Ken-

dall Square] to attract The Coop," he said. But serious proposals have surfaced only in the past year, he added.

Barrett agreed with Argeros that Boston Properties was still in "active discussion" with The Coop. He was uncertain about when negotiations would be concluded. "It's a complex issue, and each side wants to be sure that it makes the best deal possible," Barrett said.

Boston Properties is still designing the building which The Coop would occupy at Three Cambridge Center, he said. The development corporation has opened the design process to The Coop, he added.

Letting the Coop contribute to the design was "in our best interests," he said. "We are glad to have the opportunity to design a building that will fit the operating specifications of The Coop."

The Tech Coop's lease on its space in the Student Center expires in June 1986, according to the MIT Real Estate Office. One member of the Coop Board of Directors said, "The Coop should not consider itself under any obligation to keep a store in the MIT Student Center," according to the minutes of the June 19 meeting of the Executive Committee.

"MIT may prefer to take over some of the functions of the Coop and run them itself," said another member during the same meeting.

"It's not in [The Coop's] best interest to do anything not in the interests of the MIT community," said Stephen D. Immerman, director of operations for the campus activities complex.

Argeros agreed that "we would not move unless it was good for the MIT community."

Immerman said preliminary investigations are being made into other uses for the space The Coop currently occupies.

"The review is mainly focused on what kinds of services would need to be generated for the next generation of students," he said. "Any major change to the space would need to last for the same amount of time as The Coop . . . on the order of 20 years."

"The possibilities for filling the Coop space are practically infinite," Immerman continued. "It's important to think about the things which are essential to the life of the MIT community."

The current plan is to "provide a framework in which the myriad of options and possibilities can be narrowed down such that if The Coop does decide to move, we have an operating context in which we can begin to make decisions," Immerman said.

Storm warning issued

A hurricane warning and a flood watch have been issued for the Greater Boston area as Hurricane Gloria, the most powerful hurricane ever recorded on the Atlantic coast, moves toward the region. Winds greater than 100 mph and waves 10 to 20 feet, accompanied by extensive flooding, could occur this afternoon, according to the National Oceanographic and Atmospheric Administration.

MIT Vice President Constantine B. Simonides and Director of Personnel Joan F. Rice deferred their decision on Institute hours until 4 am this morning. The MIT community can call 253-SNOW (7669) to learn if the Institute is closed today.

Physical Plant Director Paul F. Barrett advised students to remove loose items from roofs and window sills. They should also close curtains and window shades to block flying glass in case windows break. Students should also have adequate emergency supplies.

The community is advised to stay indoors if the hurricane hits. Students should also listen to the radio or call 1-900-410-6622 to monitor the hurricane's progress.

MIT has stocked sandbags and plywood and has surveyed the roofs of Institute buildings for loose materials, according to Barrett. Extra generators and pumps have also been prepared.

Committee on Discipline to develop policy on computer resources

(Continued from page 1)

There is no precedent for such disciplinary action because there have been no security violations of this type before, Lerman added. The Committee on Discipline (COD) will consider the case and issue a ruling only if the student decides not to accept Lerman's decision, he said.

The COD will not review the breach in Project Athena's security unless a complaint is filed by a member of the MIT community, according to COD Chairman Elias P. Gyftopoulos '58. "We do not take the initiative to create a case against a student," he said. "I think that the response to the individual incident has to be tailored to the particular incident," said Project Athena Technical Director Jerome H. Saltzer '61. "You can't generalize. I think that rifling through a person's files without permission is something very comparable to going through their desk without permission."

"It is certainly unethical" for a student to write a "Trojan horse" program, Saltzer said. "That is the reason why the Athena statement of principles of responsible use points out explicitly that one should not do this."

"To do a really simple 'Trojan horse' program is an easy task," said Henry N. Holtzman '86, MIT Media Laboratory's system programmer.

A "user can never tell that he has been 'Trojan horsed'" by a "good Trojan horse" program, he said. A bad "Trojan horse" program is one that gives "bogus error information," he continued.

"If somebody wrote a good Trojan horse, it would have been the curiosity that it could be writ-

ten. But why would they run it? To actually go ahead and set up a break-in has got to be some sort of mania," Holtzman added.

Lerman said that the UNIX operating system used by Project Athena is not very secure. "Students should change their passwords periodically . . . about every month. Also, students should use long passwords: at least four, [but] preferably eight, characters," he said. "Passwords should not be common words like names. Instead they should consist of strange characters."

"I think that the protection provided by the Athena systems is very comparable to the protection provided by a doorlock in a dormitory," Saltzer said. "If you come to a locked door, you know that the owner of the room doesn't want you to enter it. If you have burglary tools . . . [or] happen to know how to pick locks, we don't provide terribly high security locks on our dorm room."

"As a dorm resident, you would not keep millions of dollars in diamonds in your dorm room," he continued, "because you know that the security is not appropriate. But at the same time, you might keep your textbooks there."

"I think that the protection afforded by the Athena system is similar in that it provides a way for users to mark information as private and those privacy marks should be respected by everybody else, even if someone happens to have special knowledge that would allow him to bypass the usual protection systems."

Others working with computer systems at MIT feel that no amount of computer security is sufficient. "In general, whenever

people are dealing with any computer system, they should assume that anything stored on the computer is readable by anyone," said William C. Saphir '86, chairman of the Student Information Processing Board.

"Users should not assume that anything on the computer is protected from anybody else. As long as people take this attitude, then no damage can really be done," Saphir added.

Sensitive files, such as administrative records, are not kept on Project Athena. They are kept on systems with guarded terminals and no telephone dial-up access, according to Lerman.

MIT is currently developing a policy pertaining to theft of computer resources or information, according to COD Chairman Gyftopoulos. He declined to comment on the proposed policy because it "may change as the result of" current discussion.

"Eventually, the Institute is going to have to develop a position that is uniform and understood. At this point, many of the organizations such as Athena have suggested positions with respect to [malicious] behavior," Saltzer said, "and I believe that the privacy committee has said things in the past which are consistent with this approach."

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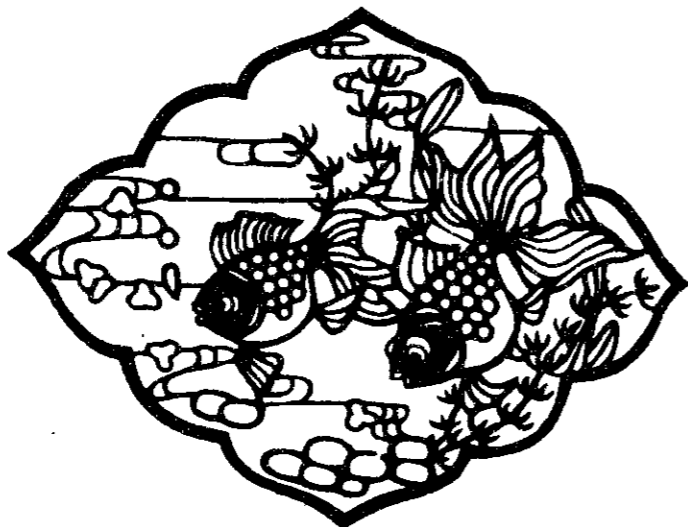
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news roundup

World

Shultz meets with Soviets — Secretary of State George P. Shultz '49 met for four hours yesterday with Soviet Foreign Minister Eduard A. Shevardnadze to discuss arms control. Shultz said that the meeting was "frank and useful," but that he and his counterpart had suggested no new proposals. The meeting was the first in a series of talks leading to a summit in September between President Reagan and Soviet Premier Mikhail S. Gorbachev.

South African judge orders stop to police brutality — A South African judge has barred the police from assaulting detainees held in the nation's prisons. Judge J.P.G. Eksteen's decision came after hearing the testimony of a white government doctor, Dr. Wendy Orr, who said that prisoners she had treated had been "systematically assaulted."

Rescue workers continue to find survivors — An 8-day-old girl and a 33-year-old man were found alive in the debris caused by last week's earthquake in Mexico City. Officials say that over 4500 bodies have been recovered so far and 2000 more are believed missing. The quake measured 8.1 on the Richter scale.

Mitterand places blame on former defense minister — The French Socialist government yesterday accused former Defense Minister Charles Hernu of issuing orders to bomb the Greenpeace ship *Rainbow Warrior*. The ship sank last July in a New Zealand port. The complicity of the French government in the affair has put the survival of Mitterand's administration at risk.

Nation

Pentagon disputes report on missiles — The Pentagon yesterday disagreed with a Congressional study on President Reagan's plan to develop an anti-missile defense system. The study warned that such a system would increase the risk of nuclear war. The Pentagon stated that it would not deploy the defense system unless deployment contributed to military stability.

Apple to sue Jobs — Apple Inc. has filed a lawsuit against its co-founder and former chairman Steven P. Jobs for misappropriating company secrets and plotting to form a new company while still chairman. Jobs called the action "absurd and a shock." Jobs resigned as chairman when the dispute began.

Local

Harvard considering selling tobacco stocks — Harvard University may sell its holdings in cigarette stocks because of the large number of liability suits against the industry recently. Harvard has a \$5 million investment in the Phillip Morris Company, a leader in the tobacco industry.

Sports

Boston Bruins sold — James F. Brennan, head of a local investment firm, has bought the Boston Bruins hockey team and Boston Garden arena for an estimated \$50 million. Brennan says he will emphasize local control of the Bruins and the Celtics.

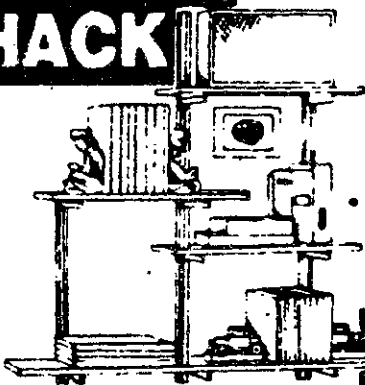
Red Sox beat Toronto in 13th — The Red Sox defeated the first-place Blue Jays 4-2 in 13 innings. The Blue Jays went through 24 players, including 7 pitchers, during the game.

Weather

Gloria on her way — Periods of rain will accompany today's increasing winds. Winds may gust up to 50 mph and torrential downpours could occur in the late afternoon as Hurricane Gloria makes its closest approach to the New England states. The storm could worsen as Gloria turns northeast. Clearing skies and sun should push the highs Saturday into the mid-70s.

Irene E. Skricki
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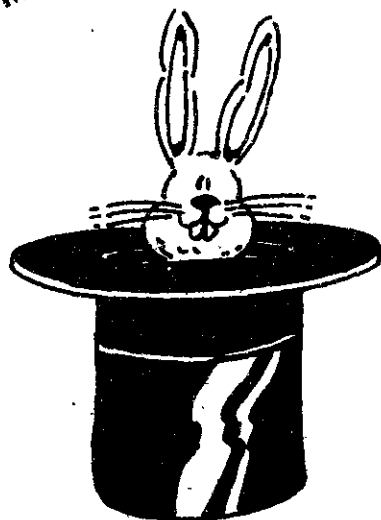
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opinion

Column/Thomas T. Huang

Grasping at the passing moments

When the air is cold, it cuts into your lungs like a sheath of ice. When the moon shines against the clouds, you can see your way home without street-lamps. That's what it was like when I was in London for Christmas, fourteen years ago.

Photographs may fade and crinkle and collect dust, but the scenes they depict never change. I can easily look back at the Tower of London and the Changing of the Guard at the Buckingham Palace, because the camera lens captured the moment.

People, on the other hand, slowly change as they age. When I look at an old picture of myself, I laugh. "Is that really me? How can it be? I look in the mirror every morning, and it's always the same old face. It never changes."

But in these 14-year-old pictures, my parents tower over me, although they are both no taller than 5'4". In one photograph, my father looks heavier than he is now, and he has longer, blacker hair.

One night, my father and I left the hotel to look for presents. We walked to a small toy shop, where an old man showed us some small Cockney cabs and other Dinky toys. On the shelves stood queen dolls whose eyes closed when laid down.

But on our way back, my legs grew tired, because the toy shop was far from the hotel. I began to fall behind. So my father scooped me up, even though I was six-years old, and let me ride piggyback the rest of the way home.

It was in the moonlight that I saw the strands of gray in my father's hair. I closed my eyes and pressed my face against the back of his neck.

I used to wish that people were like photographs, so they wouldn't have to grow old. We could collect the moments of our lives in an album and continuously relive them.

But we can't relive them. The moments pass.

Last summer, I worked at a company in San Jose. There, the air is hot and dry. It cools when the sun goes down. I can imagine Jorge running with his two young daughters in the twilight park.

My supervisor would sometimes bring his children to the office before dinnertime. They would run around the room, draw on the chalkboard, and slap at the keyboard of the computer terminal. To them, the days must last forever. To them, moments come cheap and plentiful.

But they don't. Patricia, one of the managers, was to have a baby. She kept her work and travel schedule, and I always saw her walking slowly down the corridors.

One morning, as I was reading my computer mail, I came upon a secretary's note saying that Patricia was in the hospital with complications. She was fighting to keep her baby, but things were happening too early. The baby would be born prematurely.

A week later, Patricia gave birth to a girl, who lived for only a few hours. A final note followed.

This is what it said: "Her name was Jennifer Elizabeth, and she was a beautiful child for the short time that she lived. She weighed less than a pound."

Dragutin, a person in my research group, had been excited for the past month, because his wife would soon give birth to a daughter. Often he would interrupt our conversations on image processing with questions on how to install a dishwasher at home. He was trying to do it himself.

"I got copper wiring, but it isn't the right size," he would say. "What should I do?"

The tragedy, however, affected him. Sometimes when I passed his office, he would be sitting quietly. I could see a shade of darkness under his eyes.

He came by my office before I left for Boston. His curly hair stood in disarray, as it often does. We talked about the work I had done during the summer, and about what he would be doing in the future and what I would be doing in the future.

I was packing some books and manuals away in boxes, and I suddenly turned to him and said, "Good luck raising your daughter. I'll see her next summer."

He smiled and shook my hand, as if I had made a promise.

One night in August, Jorge took me out to dinner with his family. In his wallet, he kept a photograph of his daughters. We all like children, for we know that we can only live on through them.

The wind was blowing when we left the restaurant. Jorge's youngest girl, a two-year-old, complained that she was cold. I picked her up and carried her to the car.

And as I held her, I was for a moment sent back to London at Christmastime. I was pressing my face to the back of my father's neck, hanging on as time slipped through my grasp.



Column/Andrew Bein

Hurricane arriving in all its Gloria

It is 300 miles across and spinning around at over 100 mph. The great big washing machine in the sky has arrived.

Today is Fearful Friday, Boston's turn at the natural disaster craze that is sweeping the continent. The reactions to nature's fury are everywhere. This is news that affects everybody.

Maybe school will be canceled. Come on, Marc — is that the most important thing that can happen from this hurricane? One stronger than New England has seen in thirty years?

Hurricane Gloria is here. She is on the weather report. "Thickening cloudiness. Gale force winds, torrential rain. Flooding on the coast." Yes, we are on the coast, give or take a few miles.

She is the conversation topic to end all. "Everybody's talking about Gloria."

"I've never been in a hurricane before. I can't wait! I'm telling you, I'm serious," said Ellen. "We're having a hurricane party." And a slumber party afterward.

"That's because all you can do during a hurricane is drink and have sex," said Adam.

We can't stop it, so we might as well enjoy it.

"It's like on Thursday, statistical predictions gave Boston a better chance of being fully hit than Hyannis or Martha's Vineyard."

Oh yes, that's very heartening. Start battenning down the hatches. If the horror of Mexico City's earthquake, or even the epidemic danger of Aids is too far from home, here is a peril that is literally at our doorstep.

Maybe the Dome will crack. Probably not. Danger is present with this tough-to-predict tempest, but not to any petrifying degree. Despite the harm and damage on the way, we have a pretty good chance of riding this one out.

We have a held back awareness of sheltered protection against a real threat. The victory of men over a violence that no one can control. No one person has been singled out to bear a special brunt of this storm. The sensation of a group menace is almost comforting. Gloria's punch seems diluted just because its effects will be so spread out. For now.

With the hurricane en route, there is a sense of anticipation, of anxious waiting, worry yet thrill. Something different and exciting is about to happen, even if its consequences are devastat-

ing. The very uniqueness of the storm gives her a terrifying sort of glamour.

Maybe the Harvard Bridge will be blown down.

Potential calamities can seem more fantasy than real. We can not even be sure the hurricane will be here. Can we guess her damage to life and property in concrete terms?

Maybe the whole city will be flooded.

A blackout, a power loss to the T at rush hour tomorrow. Wouldn't that be a blast for all?

Hundreds have been killed in similar storms over the years. Nothing can possibly stop the damage that is about to happen. We do have better warning systems. During the worst storm in New England history, in 1938, ships and planes had to race about trying to track the system.

No one knew a hurricane had de-

vestated the area until after it had passed through.

With satellite technology, scientists were able to spot Gloria as a disturbance on the African coast, way in advance of its hurricane status. This allowed some precious time to prepare, but not enough. How can there ever be for something like this? Moving hundreds of miles of beachfront property is just not going to happen.

Out on the coastal islands, Jim Slater is not moving himself anywhere, either. "My pappy sat at any storm that came our way, and I will too," he has announced to all. That's great Jim, and a hearty Red Cross to you too. But many of Slater's neighbors agree with him. Why evacuate? What is that going to prove?

The weather should be fine again by Saturday morning. *Maybe no one will be hurt.*

feedback

Some Wellesley UROP funds

To the Editor:

I am writing to clarify and expand on a few points made in the article ["Exchanges broaden MIT education," Sept. 23] in *The Tech*.

The article states that I said "Wellesley students are not allowed to be on UROP payroll." Because that statement implies that Wellesley students cannot receive funding for their UROP projects, I would like it noted that although UROP's own finances are restricted to MIT students, Wellesley students may receive funding from their MIT/UROP faculty supervisors. They may then apply to UROP for waiver of overhead on that funding.

Obligation to help society

To the Editor:

I was slightly disturbed by Randy Hertzman's column in Friday's *Tech* ["Consider effects your actions have," Sept. 20]. It argued that people have "an obligation to avoid harming the rest of the world with the byproducts of their work."

It is not sufficient to merely avoid harming the rest of the world with the byproducts of one's work; rather, one has an obligation as a member of society to contribute positively to the ad-

ing. Also, Wellesley students may apply for funding from the Sea Grant UROP Award and summer stipend support is available from Wellesley College for both Wellesley and MIT UROPers (as noted in the Awards section of the 1985-86 UROP Directory).

I really don't know how "many students decide to transfer to MIT after getting a taste of scientific research at MIT." I do know a couple of students whose decision to transfer to MIT may have been affected by their positive experiences in UROP.

Michelle Lamarre
Assistant Director
Undergraduate Research
Opportunities Program

vancement of society. In fact, the motivation behind one's work should be the ultimate benefit of human kind.

Thus the reason for turning down "a \$33K job building missile guidance systems for a \$16K job teaching high school physics" should be because there is a critical need for good high school math and science teachers, and not "just in the absurd hope that such an action might help end the arms race," as Hertzman states.

Mark Kantrowitz '89

The Tech

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Chairman Ellen L. Spero '86
Editor in Chief Thomas T. Huang '86
Managing Editor Andrew S. Gerber '87
Business Manager Robert W. O'Rourke '85

PRODUCTION STAFF FOR THIS ISSUE

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opinion

feedback Concept of rational self-interest valid

To the Editor:
Some comments on Randy Hertzman's reply to David Honig's column ["Follow your own career interests," Sept. 17] are in order.

His argument using pollution is fallacious. He thinks that capitalism is anarchy. In fact, capitalism is the social system where the government protects privacy-property rights. Under this system it would be illegal to pollute because pollution entails a violation of privacy-property rights (unless the polluter owns the whole river, water table, or ocean of atmosphere).

His argument using Defense is perverse. He evidently thinks that helping to defend the US from an obviously hostile world is immoral. All one has to do is point this out to see how vicious it is. However, the picture is clouded by the facts: 1) Many US military contractors play it both ways: they develop and sell military (or quasi-military) equipment to the Soviets or Soviet Bloc countries, or China, or (you name the dictatorship) at the same time as they work on US projects (to defend us from . . .); 2) Many contractors fraudulently overcharge for their work; 3) There is much gross, bungling inefficiency and fraud in the choice of projects by the Pentagon (e.g. "artificial intelligence" automobiles — one billion dollars). Thus many people working in Defense are helping to destroy America. So one must be careful in defending Defense. The idea of Defense is moral, our current Defense has cavities of corruption to be drilled so the bloot can go down.

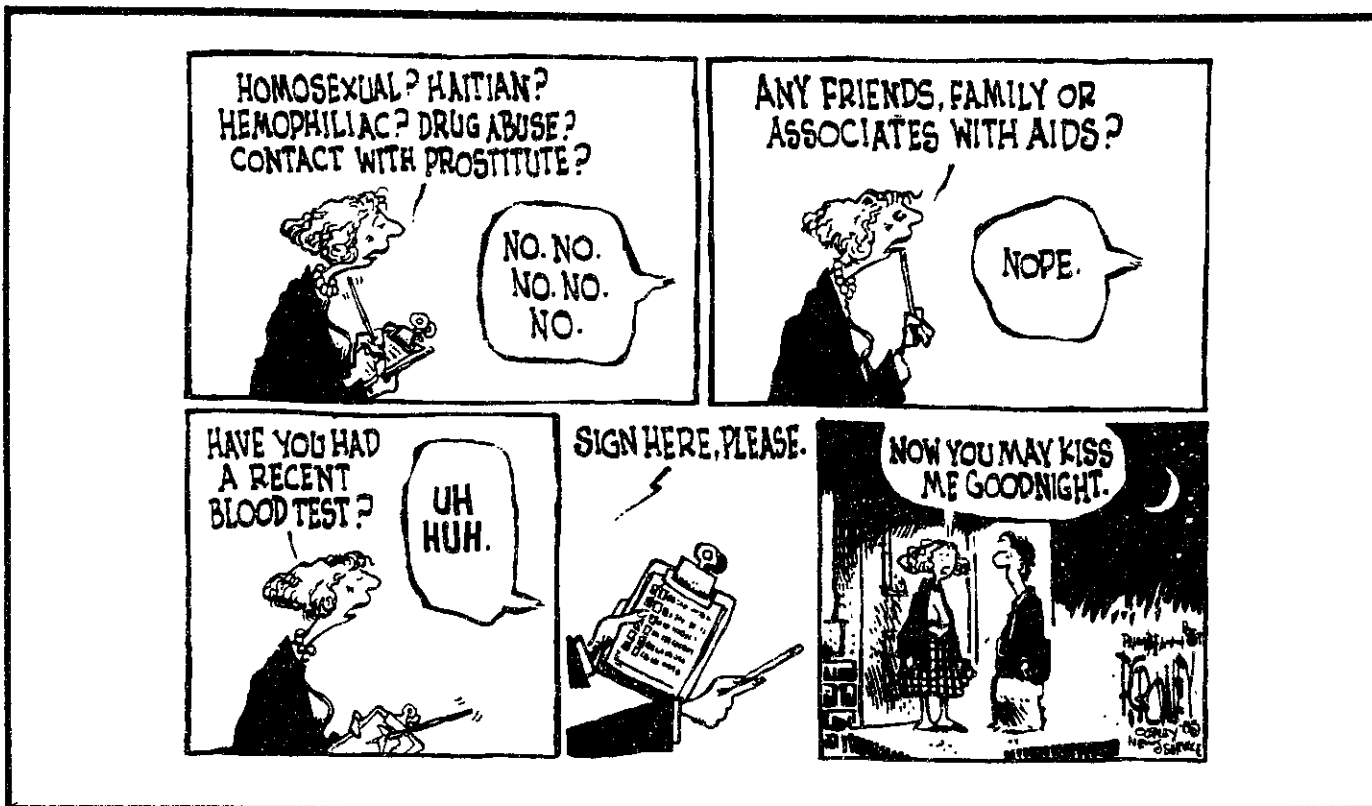
Thus, in keeping with the idea of benevolent selfishness expounded in David Honig's article, if your ambition lies in military engineering, work for the military. And also keeping with that idea, speak out against corruption (legal and illegal), and by all means don't deliver turbine blades to Bulgaria.

Speaking more generally, the fact that some men are thieves, grasping bootlickers, or clamorers for government grants and favors is no reflection on the idea of rational self-interest. Psychologically these people have no self. They are ever worried about what someone else is doing; they only feel real in the eyes of others — to be left alone is an insult. They cannot conceive of existence by voluntary trade; they

see life as a plundering of others. Note that every dictator and would-be world ruler throughout history has used duty, self-sacrifice, and service before self as his rallying calls. Those who make a virtue out of dissatisfaction with their life and career follow.

David Honig's article deserves another reading. He is not advocating the ignoring of the effects of one's actions. Unfortunately, in today's Welfare State, the application of his ideas can be complex.

Mark Hunter



feedback Do not consider punishment of Bexley

To the Editor:

Robert Sherwood's remarks ["MIT seeks sorority housing," Sept. 20] about a Bexley problem are disturbing. He is quoted as saying "I hope that [closing Bexley] would not be necessary. . . . If I really envisioned gutting Bexley and kicking the people out of there. . ." This implies that the Dean's Office is considering punishment because of an alleged anti-rush and suggests that the problem needs a solution "as we did in Senior House."

The Dean's Office has solved no problem at Senior House, because there was none. If they base action against Bexley on a similar faulty basis they are seriously in error. I lived in Senior House from 1980 to 1984, and was judcomm there during 1982 and 1983, and so I am aware of the following events.

At Senior House, an anti-rush problem was made out of an incident occurring a week after Rush Week 1982 and several years of poor rushes. In 1982, two residents of Senior House tried to scare some freshmen on their floor with a loud party. A house meeting was held within days that saw the matter condemned by the house and apologies made; three of eight freshmen on the floor moved to a different entry, the rest stayed.

Dean Sherwood was present at the meeting. 1982 and 1983 had particularly bad rush weeks with less than ten freshmen asking to live there; "limboed" freshmen protested and wrote letters to the Institute rather than live there. Deans Sherwood and McBay cited these as evidence of an anti-

rush at Senior House. Threats of moving all residents out were made and meetings were held with some students.

There was no anti-rush responsible for this. The same rush week activities which this year drew more freshmen than there was room for are events which have been held for years, and supposedly drove them away before. The change has been in the freshmen and in the unfortunate stories spread about Senior House. During Rush Week 1983 a record was kept (filling several pages) of the bad things said to freshmen about Senior House in other places. Many of the freshmen who wrote letters refusing to live in Senior House had never been there. Once they moved there they stayed — few people transfer out. These poor rushes were not caused by anti-rush.

Bexley has this same problem. Most freshmen hear stories about Bexley's anti-rush during their first days at MIT or before they even get there. With reactions to Bexley like Eli Niewood's in the Tech Opinion page ["Bexley anti-rush policy unfair to MIT students," Sept. 6], this is not surprising. These stories have been spread for years, and whether or not they have been true in the past, freshmen certain of a "Bexley anti-rush" before they got there simply are not going to seriously consider living there. This situation is not an anti-rush sponsored by Bexley; this year there was a rush week at Bexley.

Deans Sherwood and McBay should realize that this situation exists. A poor turnout for Senior House or Bexley does not mean

an anti-rush was held. Activities such as the border guard house in the Bexley courtyard or the Hare Krishna dinner are not anti-rush, even though they are not the same activities as at the other dorms.

They need open minds to avoid this misconception again, this time with harm to a dormitory possible; before considering punishment, Deans Sherwood and

McBay should first make sure there is a problem. There was no anti-rush at Senior House during the years they tried to address one — they should not try to address such a non-existent problem at Bexley without better evidence.

They certainly should not consider punishment on such a flimsy basis at all.

Michael Rohan G

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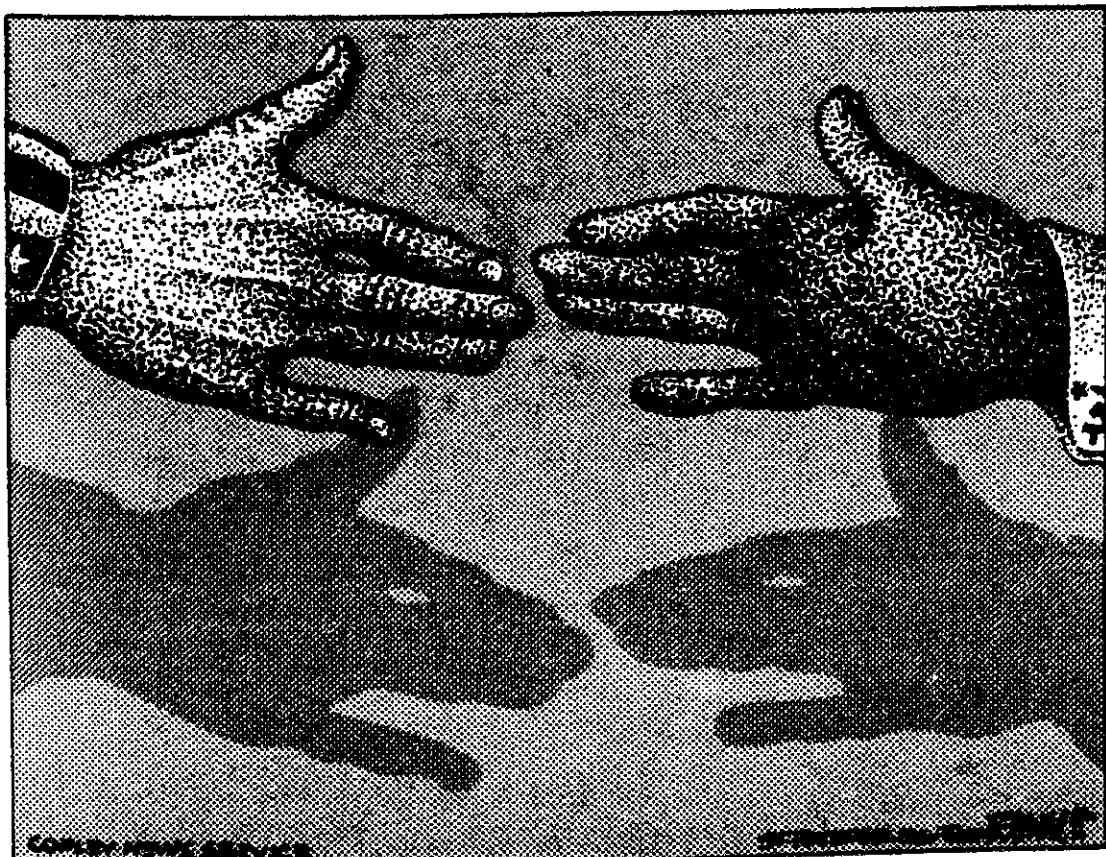
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NRC proposes fuel rule

By Lauren Seeley

Technology

The Nuclear Regulatory Commission (NRC) may soon require university reactors to remove all unused high enrichment uranium (HEU) fuel, according to the August issue of *Nuclear News*. The commission is concerned that terrorists could steal enough of the fuel to make a bomb.

In July of 1984, the NRC issued a Proposed Rule in the Federal Register requiring research reactors to convert to low enrichment uranium (LEU) fuel "unless there is a demonstration that the facility's unique purpose cannot be accomplished without the use of HEU." The NRC has asked its staff to prepare a final order on the issue.

A group formed by the NRC to study the issue decided that "it may be possible that a nuclear explosive could be made using LEU fuel. This appears, however, to be very difficult."

A conversion to LEU could, however, harm US research in nuclear engineering, according to the NRC group.

It is unclear when the NRC will make a final decision or how that decision will affect MIT. If the NRC required conversion, it would shut down the MIT reactor, said Lincoln Clark Jr. '63, assistant director of the reactor.

Because of its design, the MIT reactor cannot use LEU, he said.

Clark called the terrorist threat a "non-problem." Current NRC rules allow university reactors to store no more than 29 kilograms of HEU, only five of which can be unused.

"It's generally said that you'd need at least 15 kilograms of unirradiated [unused] HEU to make a bomb. I don't think we have anywhere near 5 kilograms on hand at one time The amount that terrorists could steal might be enough to make a small mess in your neighborhood, but not a weapon," Clark added.

Irradiated fuel must be reprocessed before it can be used to make a bomb. It is also highly radioactive and dangerous. "People would be foolhardy to steal irradiated fuel," Clark said.

Clark would not describe the measures taken to guard unirradiated fuel elements for security reasons. But he did say that they are stored "from a few days to several weeks," and that the NRC has approved MIT's security measures.

Neil Todreas '66, head of the Department of Nuclear Engineering, did not believe that conversion would reduce the risk of nuclear proliferation. "There's not much HEU stored and available. It's in the reactors," he said.

"You'd have to hit a lot of reactors at once to try to get the amount [needed] for a weapon," Todreas explained. "On the practical side I don't think the conversion makes any difference."

Institute Professor Philip Morrison commented that "it's probably much easier to steal a ready-made bomb from an arsenal" than to steal the HEU and make one.

The NRC order may only mean that MIT should remove all unnecessary HEU fuel elements because the reactor could not

function with LEU. "I read the *Nuclear News* report to mean that we will be allowed to store three unirradiated HEU fuel elements. That's not a problem," Clark said.

Todreas said that if the NRC requires all university reactors to convert, regardless of monetary or technical feasibility, "it'll switch research from university reactors to national labs."

The cost of conversion would be too great for most universities to bear. Some reactors, such as MIT's, are not designed to use LEU and the conversion would disrupt research programs, Todreas said.

MIT spent \$3 million in the late 1960s and early 1970s to redesign the reactor specifically for HEU use. HEU is enriched with Uranium 235, which produces a greater neutron flux than LEU.

Spectrometry and radiation effects studies at MIT require the high neutron flux produced by HEU, Todreas said.

Government reactors use 90 percent of all HEU fuel in the United States. If the NRC were to require universities to convert, "you're affecting less than ten percent of the HEU, so you're solving less than ten percent of the problem," Clark said.

Clark was a member of the LEU Study Group, which the

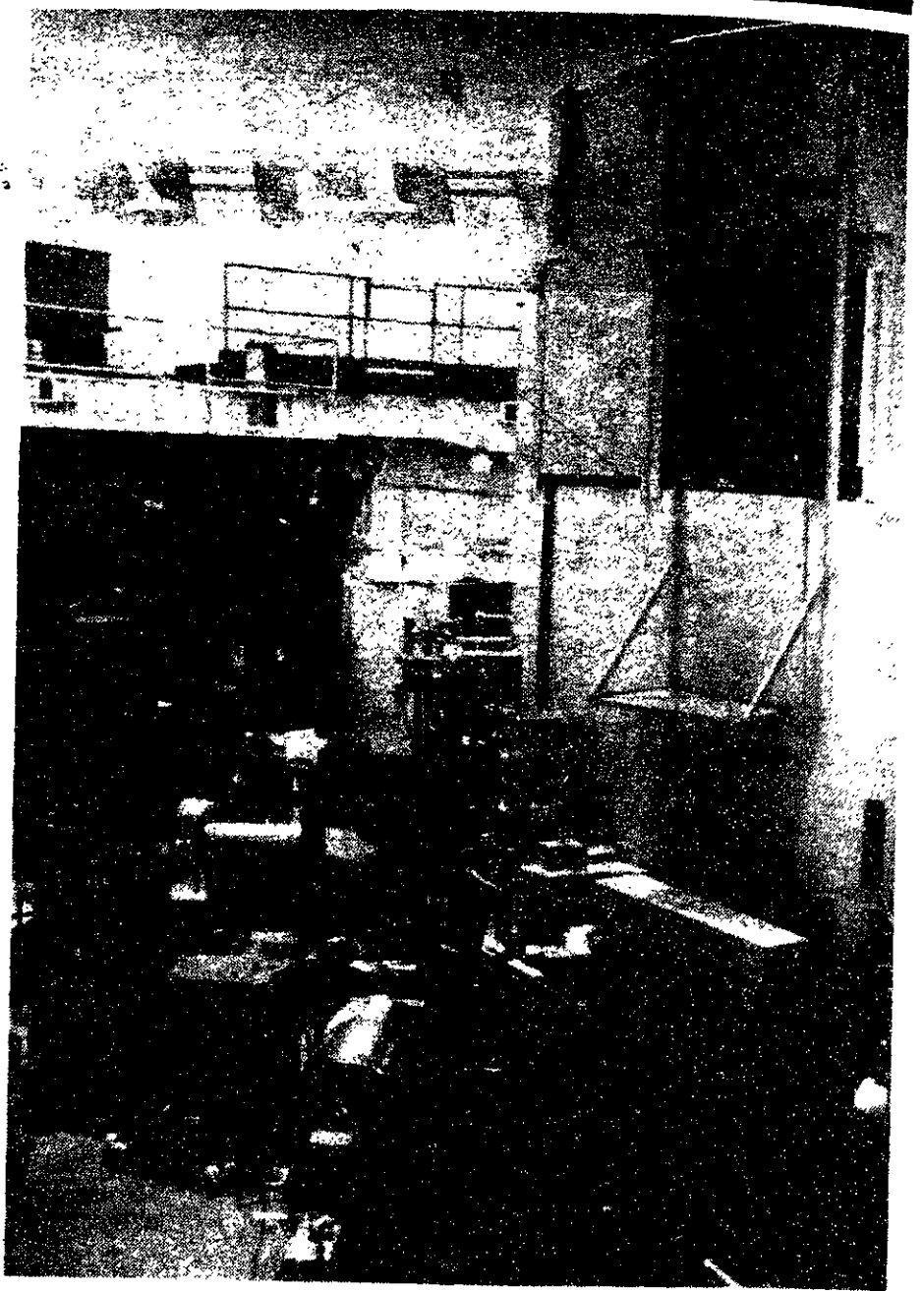
NRC created to assess how conversion would affect universities. The group found that the MIT and Missouri-Columbia reactors are so designed that they cannot convert to LEU with existing technology.

The Department of Energy (DOE) is trying to develop low enrichment fuels that would provide the high neutron flux necessary for MIT and Missouri-Columbia. "By 1989, the DOE may have developed a fuel that would make it possible to convert. If that happened, MIT would have no objections to converting," Clark said.

Clark said it was reasonable for the NRC to ask universities to minimize stored HEU. "To me that makes sense to get the inventories down to low levels to prevent anyone from trying to swipe it," Clark said.

The LEU Study Group warned that requiring all universities to convert might harm the United States standing in the field of nuclear research.

The group recommended that the federal government pay for the conversion because the costs would be so high that many university reactors would otherwise be shut down. "If you're going to put a highway through someone's backyard, then you ought to pay for it," Clark said.



Tech photo by Simson L. Garfinkel
Experiments surround the MIT nuclear reactor.

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COMPARING COLAS

Our jaded judges sample the good, the bad, and the ugly

An often-heard, difficult-to-substantiate rumor has it that the MIT student body annually consumes more Coca-Cola per capita than any other community of similar size. Coke is unquestionably an important part of the MIT way of life: late risers often grab a quick coke-and-donut breakfast on their way to 10 am lectures, while others put away pint after pint while trying to learn three months' worth of physics the night before an exam.

It is therefore no wonder that the MIT community has been almost unanimous in its condemnation of Coke's recent change of formula. And MIT is apparently not alone in this judgment — despite aggressive advertising, sales of New Coke are said to be going flat. The Coca-Cola company has not released a breakdown of figures, but in seven of ten markets surveyed by Beverage Digest, the unpromoted Classic Coke outsells highly-hyped New Coke by an "overwhelming" margin. A local cola addict put it this way: "The real tragedy of what Coca-Cola's marketing people did was to ignore what we might call the heavy user. . . One New Coke might be okay on a hot day, but you wouldn't want to drink it all the time." Cola drinks are made from the nuts of the Kola tree, grown in Africa, South America, and the West Indies. Kola nuts provide more caffeine than taste, however, and

many other flavorings are typically added. The formula of Coca-Cola is one of the corporate world's most carefully guarded secrets; analysis has shown that Coke — both new and old — contains significant amounts of lime oil, vanilla, cinnamon, and coca leaf extract (with the cocaine removed), as well as smaller quantities of lavender and other flavorings. These secret ingredients are what makes Coke Coke (and whose proportions were readjusted for the "lighter" taste of New Coke); they give Classic Coke what a wine expert might call its "depth" and distinguish a good cola from an inferior store-brand. Cheaper colas tend to contain smaller amounts of costly essences and therefore have less complex and interesting flavor.

For most of The Tech's history (we're a few years older than Coca-Cola) we have relied upon Coke's stimulant properties when issue production drags on and on into the night, its power of refreshment the following morning, and its stomach-calming ability when too much dining-hall food finally gets the best of us. In an effort to find out whether Classic Coke is really the same as Old Coke, and to investigate available alternatives, approximately a dozen members of our staff participated in a blind taste-test of ten colas running the gamut from the noble to the undrinkable. Only "normal" colas were tested — no sugar-free and no caffeine-free (unless the brand was available only as caffeine-free). All colas tested were purchased in bottles, as some cola fanatics insist that canned cola tastes different as a result of either the cola's reaction with the metal or a slightly different formulation to prevent the cola from reacting with the metal (we were unable to get manufacturers to confirm the latter theory). The results were surprising:

THE OVERALL WINNER

"Old" Coca-Cola — This is the real Real Thing, hoarded by us last spring. All but one taster ranked this first; a few immediately recognized the characteristic smooth taste balanced between tart and sweet,

with a rich body and pleasant aftertaste. (We didn't tell anyone what it was. Honest.)

OTHER FAVORITES

Star's Cola — Star Market's representative of the inexpensive store-brand cola genre, this is not overly sweet and has interesting cinnamon overtones. A surprisingly pleasant cola that is very different from members of the Coke family.

Miscoe Cola — "Bottled at the spring" by the Miscoe Spring Water company of Mendon, Massachusetts. Unobtrusive, lightly fruity taste and medium sweetness, with a minerally note that may originate with the spring water. Lots of people swear by this stuff, and given the fact that it often sells for as little as 69¢ for a two-liter bottle, it may be the best value of the lot.

Pepsi-Cola — Light, balanced taste with no single identifiable constituent. Slightly too sweet for our connoisseurs; one called it "a cola for the masses."

"New" Coca-Cola — Tastes very much like a lighter, sweeter "Old" Coke. Less flavor, particularly less vanilla. Needs more body and more bite.

ALSO-RANS

Royal Crown Cola — Thick, almost chewy body. Bold attack and powerful, bitterly spicy sustain. A unique, characteristic flavor which one either loves or hates. Some have proposed this as an ideal retreat from the Coke controversy.

Stop&Shop Cola — Yes, Muffy, there is a real difference among cheap colas — no one would ever mistake this brown sugary water for Star's excellent product. Almost-unpleasant aroma which doesn't show up in the bland taste.

MOST-UNUSUAL ENTRIES

Snapple Crystal Cola — Makes a big point of being salt-free, though none of the other colas we tried listed salt as an ingredient. Also claims no preservatives (again, none of the others had any, either) and no artificial color (it looks like tonic water — but who says caramel coloring is "artificial"?). No caffeine. What Snapple does have is a complex, almost medicine-like flavor, with

a lot of licorice and something else (ginger? eucalyptus? iodoform?). Both the taste and the color of this strange, expensive cola require some getting-used-to.

Naturelle 90 Cola — Another health-food caffeine-free cola. Dark, rich, tastes and smells almost like Manischewitz wine with added cinnamon and honey.

THE LOSER

(WE'RE CONFUSED, TOO)

Coca-Cola Classic — Despite the labels, this isn't quite the same as Old Coke. The flavor is very similar to Old Coke, but it has unpleasantly much coffee-and-maple-syrup to it and an overpowering herbal aroma. Only one respondent ranked this even among the top five. The difference between Old Coke and Coke Classic, it turns out, is that the latter contains relatively more corn syrup and less sucrose than the former; sugar advocacy groups have been taking out full-page ads in major newspapers pointing out the fact that Classic and Old Coke aren't the same. Corn syrup — which is cheaper — tastes very different from sugar and this doubtless accounts at least in part for the flavor difference we found.

Widespread puzzlement resulted when our tasters learned that they had given very different ratings to Old Coke and its Classic counterpart; perhaps we'd gotten a bad bottle, some contended (but on further sampling they concluded that no, that's how Classic always tastes). Another hypothesis has it that the Old Coke was improved by its four months of bottle-aging, but this seems hardly sufficient to account for the major difference in flavor. Try the experiment yourself, if you have any Old Coke left. We can almost unconditionally recommend the Star and Miscoe colas for both taste and value; RC is a change that may be welcome to many veterans of the cola wars; Snapple or Naturelle 90 should perhaps be served the next time you have tofu or sprouts for dinner.

— V. Michael Bove

THE REST OF ASIA

Not all Asian food comes from China

Most MIT students are acquainted with the pleasures of Sino-American eating. The rest of Asia is much less familiar, but for those already expert in the Chinese field, it's easy to branch out. There is a tremendous variety of restaurants in Central Square alone, as well as in Boston. In the list below, I have concentrated on those closest to MIT within each genre.

In general, Asian food follows the same pattern as Chinese: most dishes involve chopped or sliced meat mixed with vegetables and sauce and sometimes noodles. Different spices characterize different styles. Lovers of hot peppers and spice will be satisfied anywhere in Asia, but all cuisines also include milder dishes.

Indian: Boston has many Indian restaurants, but the two closest to MIT are so good that I have rarely ventured any farther:

Oh Calcutta (488 Massachusetts Avenue, Cambridge; 576-2111; walking distance from MIT). Inexpensive and reliable, Oh Calcutta is a standby for MIT dinner trips. Its menu is easily comprehensible: each of a small repertoire of techniques (vindaloo, curry, saag, etc.) is applied to chicken, beef, and lamb. Nothing here is done poorly, so experimentation poses no risk — as long as you have a high tolerance for spicy food. If not, consultation with the waiter is advisable. Most of the dishes are at least moderately spiced, and the scorching beef vindaloo is the most vicious I've ever faced. If that scares you, I recommend the biryani section of the menu (bits of meat and vegetables mixed with rice).

India Pavilion (17 Central Square, 547-7483; walking distance from MIT). To fans of Indian food, a dinner here can be worth the extra blocks of distance and the higher price. Every detail of a typically complex Indian meal is superior, particularly the accompaniments like breads and onion chutney (comparable to Chiliologist Andy's hot

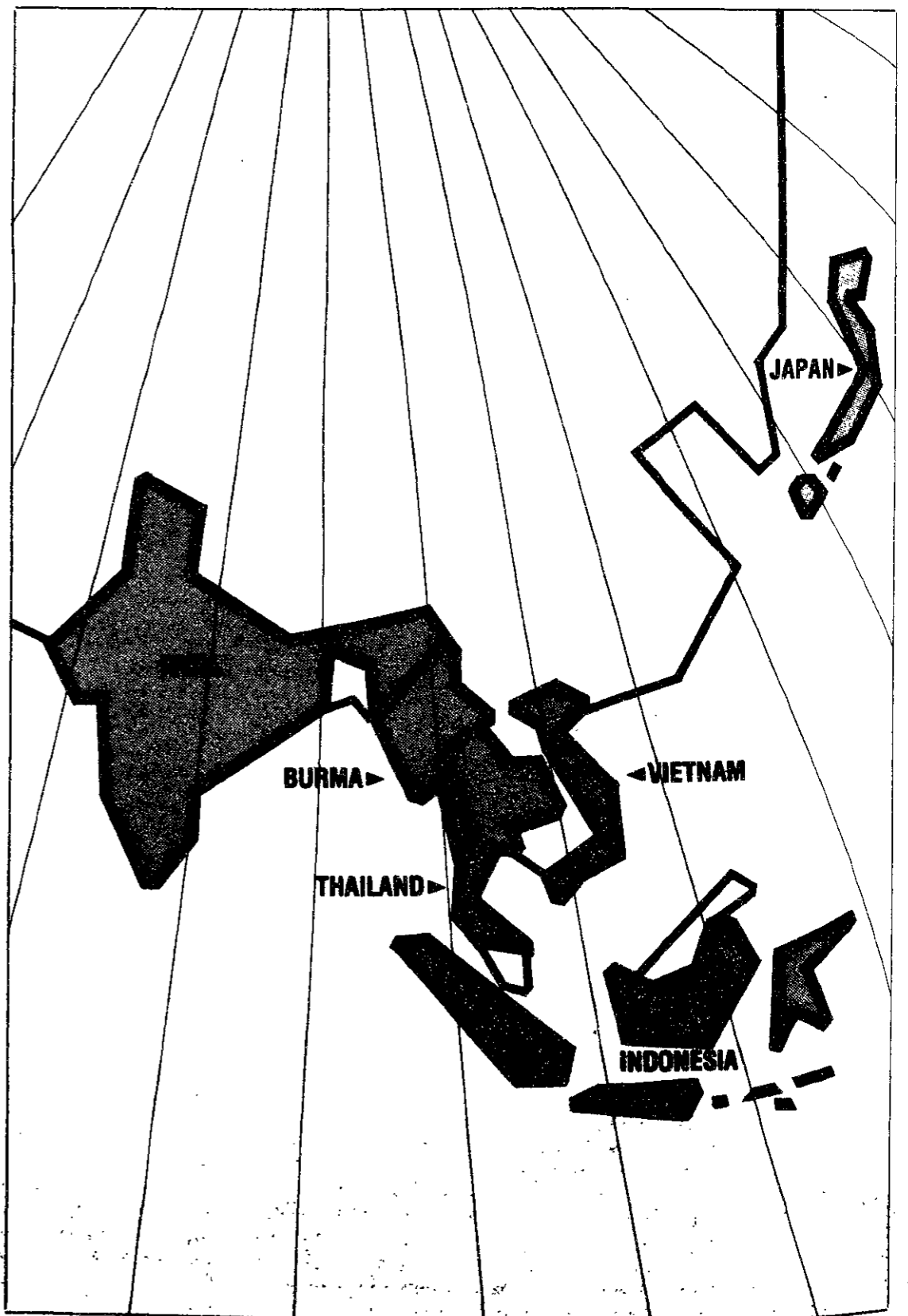
onions). Coconut soup, one of my favorites, is rich and thick with shredded coconut. Main dishes also generally meet a high standard. Non-firebreathers will appreciate the chicken tandoori (barbecued chicken).

Thai: Boston saw a Thai restaurant boom a couple of years ago, with several opening within a six-month span. Although most of them are far away and very crowded, the nearest is excellent: **Bangkok House** (587 Massachusetts Avenue, Cambridge; 547-6666; walking distance from MIT). I can almost give this restaurant an unqualified rave. It serves the best dish I've ever had in any restaurant: sauteed chicken with chili and garlic sauce. Garlic lovers must try this concoction, which strikes the ideal balance of hotness and garlic flavor. Chicken-coconut-lime soup, a Thai standard, is delectable here, as are many other selections. The decor (heavy on shiny surfaces and fish motifs) is almost pretty enough to distract attention from the food. Watch out for some duds, though: the curries have too much butter and not enough flavor. Service is also painfully slow. But the high points of the menu are worth these risks. (Bangkok House II opened last month in Harvard Square.)

Japanese: **Kabuki** (24 Pearl Street, Cambridge; 491-4929; walking distance from MIT). Around the corner from Purity Supreme (and across from the Off the Wall Cinema) stands one of Cambridge's finest restaurants. The food is exotic, but once you try it you'll be eager to get used to it. Meals begin with a clear broth soup, which you drink from the bowl, and a salad with stunningly delicious sesame dressing. Main courses differ from the Chinese style, having fewer vegetables and lighter, less goopy sauces. One standout is a beef dish with sesame flavoring, and fish dishes are especially good. Very good sushi is also available.

Vietnamese: Chinatown could as well be called Vietnamtown. Among its multitude of Vietnamese restaurants is the **Rainbow Coffee Shop** (Beach Street near Chinatown arch, Boston; MBTA: Red Line to Washington or Orange Line to Essex). Just across the street from Bo Shok, the Rainbow Coffee Shop is an essential stop for seekers of authentic Chinatown dives. It seems to be a family operation, heavily patronized by locals; waitresses are usually rude to non-Vietnamese. Dinner for two can be as cheap as \$10. Although noodle dishes dominate the menu, the fare is never dull to the American palate. Decorative touches like slices of cucumber, tomato, and lettuce to be dipped in a gingery vinegar sauce make everything appealing. Most items on the menu aren't especially spicy by themselves, but on each table is a jar of ultra-hot red sauce (just a trace on the chopsticks is plenty), which waitresses warn Caucasians away from.

Indonesian: **Java Cuisine** (25 Massachusetts Avenue, Boston — just across Harvard Bridge; 353-0605; MBTA: Green Line to Auditorium, or #1 bus). This restaurant should be a magnet for the adventurous, since it features the styles of Malaysia, Indonesia, and Hong Kong. Their closest relative is probably Thai cuisine. Arche-



types such as egg rolls appear in idiosyncratic form, and noodle, fish, and shrimp dishes appear to be the specialties. The fare is plainer than what you may be accustomed to in fancy Chinese or Japanese establishments, and the atmosphere low-key. But the simplicity of the dishes (only a few ingredients each, unlike some Chinese mish-mashes) makes the menu easy to negotiate. The food is tasty and slightly less expensive than average: a sound choice for pursuers of variety.

Burmese: **Mandalay** (392 Huntington Avenue, Boston; 247-2111; MBTA: Green Line E to Northeastern). This is a convenient dinner stop on the way back from the Museum of Fine Arts, but it's not worth a trip to Boston by itself. The small menu consists mainly of items borrowed from Chinese or

Indian cuisine, showing only a little distinctive character; some diners, though, will find a counterbalancing virtue in Mandalay's restrained and subtle use of spices. One of the more interesting offerings is the Burmese version of hot and sour soup, clear and milder than the Chinese norm. Noodle dishes, suffering from too much soupy sauce, are a major disappointment. Beef stew with lemon grass has an intriguing flavor (perhaps coriander), but the high proportion of celery stalks and other coarse vegetables detracts from the dish. Small bowls of hot pepper and sweet-and-sour sauce are provided for personal adjustment of spice levels; but be careful, since it is easy to accidentally overwhelm gentler flavors.

— Katie Schwarz

IDEAS: FALL 1985
A supplement to The Tech,
September 27, 1985

Contributors:

Diana ben-Aaron '85, Bill Coderre '85,
Katie Schwarz '86, V. Michael Bove G, Ken
Meltner G

Editing and design:

V. Michael Bove G

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FREEZING YOUR OWN

Homemade ice cream, both high- and low-tech

"Boston is the only city in the world where people will stand in line during a blizzard to buy ice cream."

— Gus Rancatore, proprietor of Toscanini's

Ice cream is a universal food. Everyone eats it, and gourmet ice cream parlors are prospering. Yet many people don't realize that anyone can make ice cream. Forget the terrors of hand-cranking and chipping ice; modern technology renders them entirely optional. And the best part is that the possibilities for experimentation are endless!

In this article you will find a guide to making ice cream in your own kitchen, either with or without modern appliances. What few secrets to success there are will be revealed.

WHAT IS ICE CREAM?

Official ice cream consists of cream, sugar and flavoring ingredients such as liqueurs, cookies, chips, extracts, or chocolates. Next in line is sherbet, which has less cream and is made with fruit juices. Then there is sorbet, which contains no cream. Gelato is the Italian version of the latter idea, but doesn't limit itself to fruit. Tomato, hazelnut, and chocolate flavors are available.

Some health food nuts will substitute yogurt and milk for the cream to make frozen yogurt (sometimes called "frogurt"). This reduces the amount of butterfat in the ice cream while keeping the smooth consistency. And other people will not use cream but instead make ice milk.

Last, there is tofutti, which is a non-dairy concoction made with tofu. It is generally believed that there is only enough tofu in tofutti to put the word "tofu" (prominently) on the label. I have never seen an ice cream recipe which uses tofu in any significant quantity. I believe that tofutti is just a variation of gelato.

CHOOSING YOUR WEAPONS

As important as the ice cream itself is the method of freezing. Ice cream is stirred while being frozen, which reduces the size of the ice crystals in the mix. Stirring also introduces some air into the ice cream, which makes it easier to scoop and eat. All of the following freezing methods will produce acceptable ice cream, with varying degrees of hassle and cash outlay.

In the freezer. Put the ice cream mix in a bowl in a freezer, which has been set to be as cold as possible 24 hours before hand.

About every 10 minutes beat the mixture with a wire whisk. Continue freezing and beating until the mix gets very stiff (about an hour), then put the mix into a freezing container and freeze overnight. Don't allow the cream to whip. This is a cheap way to accomplish ice cream, but often produces an inferior product.

The old-fashioned way. This kind of ice cream maker has a big bucket which you fill with rock salt and ice (usually mixed in a ratio of 1 part salt to 7 parts ice, by volume), and a smaller bucket in which you put the ice cream mix. It has a beater to stir the mix. Old-fashioned ice cream makers come in half-gallon and gallon capacities, and cost less than \$50. If you were smart, you would have purchased the kind with the motor on top, otherwise you will have to con someone into cranking. (Let the person who cranks lick the beater. Always works.) Run the machine until the ice cream mix is very stiff, then transfer the mix to a freezing container and freeze it overnight. Although this method is messier than others, it also makes more ice cream at a time, a definite advantage.

The modern method. Several companies make ice cream makers that go directly in the freezer, and have a flat power cord that fits under the rubber magnetic seal strip at the edge of the freezer door. They require no ice, salt, batteries, or human intervention. They typically hold one quart, and cost around \$50. They are unbeatably easy to use, but require turning down the freezer (0° F or colder) and finding enough room. These devices do fit in "freezer-on-top" combination fridge/freezers, but will probably necessitate shuffling the contents.

As with the other methods, you run the machine for an hour or so, and transfer the mix to another container for the final freezing overnight. This is the method that I use personally, and I swear by my Salton model IC-4.

The technological overkill (i.e. "Yuppie Special") method. This is a contraption which sits on your countertop, has a built-in freezing plant and a motorized stirrer. It requires only electricity to work. It also holds only a quart, requires the same overnight freezing after using the machine, and costs \$200 or more. Enough said.

A RECIPE FOR EVERYTHING

Now that you have garnered your tools, it is time to use them. This recipe for Sweet Cream ice cream is incredibly easy to make, and can be adapted for just about every other kind of ice cream imaginable.

In some form of stirring device, lightly beat 1 egg until it turns lemon yellow. Add 1/2 cup sugar and 2 cups cream, blending carefully to avoid whipping the cream. Stir in 1/2 teaspoon vanilla. Freeze. Makes 1 quart.

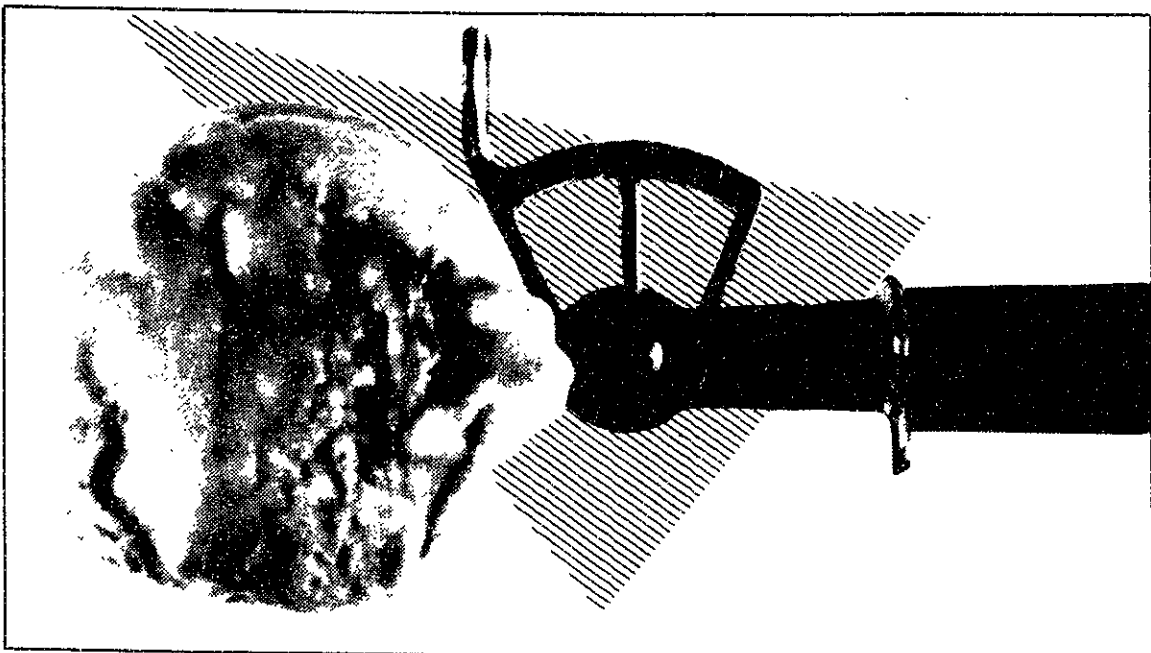
Naturally, you may vary the heaviness of the cream to suit yourself. I usually use all heavy cream for cookie recipes, and part light cream for liqueur and fruit recipes. You could also use whole milk. To make frogurt, use half plain yogurt (stirred) and

half milk.

An amazing number of other ice cream flavors can be made from this recipe. To make really good cookie ice cream (or M&M, or chocolate chip), simply add 12 crushed up cookies (or 1 cup of other stuff, per quart) shortly before finishing the freezing.

Any sort of liqueur flavor can be made by omitting the vanilla and using 2 tablespoons of your favorite libation (I'd recommend Bailey's Irish Cream or Grand Marnier). This also works for syrups, so you

you don't have a double-boiler, fill a saucepan with water, and float another saucepan in it. Avoid burning the chocolate, or boiling the milk. Keep the water just below boiling, and heat the milk/chocolate only until the milk begins to steam, stirring frantically. Blend the chocolate into the milk until absolutely smooth. You can use a wire whisk, or a mixer, or even a blender, just make sure that there are no tiny chocolate particles left (tasting is the best test). Now turn



could make a quick-and-dirty chocolate ice cream by just adding some chocolate syrup.

To make a "swirl" ice cream, just swirl in the ingredient of your choice (perhaps chocolate sauce or orange marmalade) while pouring the mix into its final container.

To make rum raisin ice cream, soak 1 cup of raisins in a half-and-half mix of rum (80 proof or so) and water for about a day. Using pure rum would lower the freezing point of the ice cream too much. Drain the raisins (keep the rum, it's delicious) and add them 5 minutes before the end of the stirring cycle.

AND YES, CHOCOLATE

Of course, when most people think of ice cream, they think "chocolate." This recipe is custard-based, which seems to give the most intense flavor, but requires cooking. As with the Sweet Cream recipe, it is very flexible.

In a double-boiler, melt 2 ounces of chocolate in 1 cup of whole milk. (If

down the heat to the lowest setting, remove the double-boiler to a cool burner, and add 1/2 cup minus 2 tablespoons sugar and stir until fully dissolved. Add 1 cup cream and stir. Take 3 lightly-beaten egg yolks, and add them to the chocolate mix by first pouring a little of the hot mix into the yolks, stirring, and then folding the yolks back into the mix. Put the double-boiler back on the heat, and cook very slowly while constantly stirring. When the chocolate mixture has the consistency of clam chowder, pour it into the freezing bowl, and stir in your favorite flavor modifier. Most people use vanilla, but I usually use a few drops of kirschwasser or Jack Daniel's. Let cool in the refrigerator for at least one hour before freezing.

This recipe can allow for tremendous variation. The exact formulation of the flavor modifiers, for example, has all the potential

CONTINUED, PAGE 4

BAGGING SOME BYTES

How to get your hands on a keyboard

Welcome to MIT, the source of all which is electronic. You may find it confusing that you aren't required to buy a computer like the folks at many other universities. Instead, you may choose from a spectrum of computer possibilities. To make it a bit easier, I've divided the article into several sections: "Computers for Work," "Computers for Play" and "Computers for Computers' Sake" (this may not help you much, but it is certainly easier for me).

COMPUTERS FOR WORK

Obviously, the easiest (at least for me) way to get your work done involves Project Athena. In case you didn't know, our orientation lectures, Athena is a grand effort sponsored by Digital Equipment and IBM to integrate computer technology with college curricula.

In fact, all that most students will see in the short term are the overcrowded terminal rooms ("clusters" in Athena-speak) abuzz with laser printers and overloaded VAX computers. Don't even ask when the IBM and DEC hardware will be here; deadlines keep slipping, and I don't expect Phase II ("workstation deployment") to be noticeable before September 1986.

What does this leave you with? Athena does work, but slowly. If you take the Athena route, prepare to spend a few all-nighters near the end of term, but a quarter loaf is better than none.

If you can't share, why not get your own?

The Microcomputer Center in Building 11 offers periodic package deals on Macintosh and IBM PC systems. Last year's "graduation special" on the Mac appealed to hundreds of students and staff. They plan similar specials during this year.

Biased I may be, but the Macintosh has become a serious science and engineering machine. The graphics are well integrated into programs ranging from statistics systems to drafting programs. The Mac is about as slow as an IBM PC, but that little black and white screen lets you write in several languages, set up math equations and draw complex diagrams. And it won't eat your entire desk.

The last option isn't really an option, but an opportunity. If you have an UROP, you probably have access to a microcomputer of some sort. Check with your advisor to see if you can use it nights or weekends.

COMPUTERS AS TOYS

Personally, I think the best reason to buy a computer is for the games. You can justify it to your parents as a problem set machine (see comments on Athena, above), and then run off and buy Loderunner and Pinball Construction Set.

Athena does have games: the Dungeons & Dragons-type game Rogo for Hack in the "unsupported" directory, a networked version of Rogo(TM), and a few others. Unfortunately, it's anti-social to play these games during the term paper season, and anyway the computer probably won't be free.

Personally, I like the Mac. You can put together your thesis with it, and then switch over to Gato in submarine combat game. I'm not sure about the recent crop of Mac clones or the IBM PC; color graphics usually are fuzziest than the Mac's monochrome screen, and I don't think the premium monitors are worth the expense. As a dual use machine, the Mac beats anything on the market.

The big problem with the Mac is its slow and tiny disks. Hard disks help, but will add at least a thousand to the system cost. No good solution, especially when you can buy a reasonable PC/XT clone for under

CONTINUED, PAGE 4

GOOD STUFF CHEAP

Bargains and a nutty sense of humor mix at Building 19

Building #19, 100 Derby St., Hingham; 154 Cambridge St. (Route 3A), Burlington; 1450 Providence Highway, Norwood; open 9:30 to 9:30 weekdays, 9 to 9:30 Saturdays and 12-5 Sundays; 749-6900.

An unsung copywriter at Building #19 has coined a slogan for the chain that epitomizes the consumer's Holy Grail: Good Stuff Cheap. Building #19 does have Good Stuff Cheap, though it's partially buried in Cheap Stuff Cheap and Good Stuff Not Much Cheaper Than Retail. As with all bargain stores, one must be prepared to dig.

The main product line is approximately the same as the Friendly Family Center in Central Square's: housewares, furniture, carpets, some groceries and drugstore items. The selection is wider and the prices lower than FPC's, which makes it an especially good place to go if you're furnishing a dorm room or apartment.

There are designer clothing samples for about half what they would cost at "normal" stores, \$6.99 shoes, 89-cent coffee mugs that would look at home in the window of Crats and Barrel, and some New York Times Book Review-stratum hardcovers (of course, you will have to sort through piles of The Sunshine Guide to Fottos, The Shaun Cassidy Scrapbook, and the WPA Guide to Detroit to find them).

There's a large camping department, and, because Building #19 buys up manufacturer's overstocks, damaged lots, and discontinued product lines, there's a shifting selection of everything from typewriters to wading pools.

But the real joy of Building #19 is not the shopping. It's the atmosphere, which goes beyond no-frills. It's a bare concrete gymnasium of a warehouse, the floor covered

with battered bins and racks of merchandise.

Nothing is ever re-sorted after customers have pawed through it, though a disaster area may be cleaned out by staging an impromptu bag sale: everything you can put in a shopping bag for \$1. A bag sale resembles Filene's Basement at rush hour.

The entrance is plastered with hand-drawn signs bearing satirical slogans ("Any resemblance is purely coincidental and very unfortunate") and cartoons of employees ("Bernice says, 'Wake me for my coffee break'").

A voice over the loudspeaker hawks "Ugly green wicker baskets, just 50 cents. Get 'em now at checkout, just 50 cents, ugly green wicker baskets."

A cashier wearing a "I'm so underpaid I cash my check on the bus" nametag hands out Wash'n'Dris with "All Building #19 customers must wash hands before returning to the real world" on them and shoves purchases into bags labeled "Have a Cheap Day."

Anyone who likes this kind of humor can subscribe to the Building #19 circular, which appears to have been written by the Church of the SubGenius and illustrated with shopping-mall caricatures and pictures cut from department store ads:

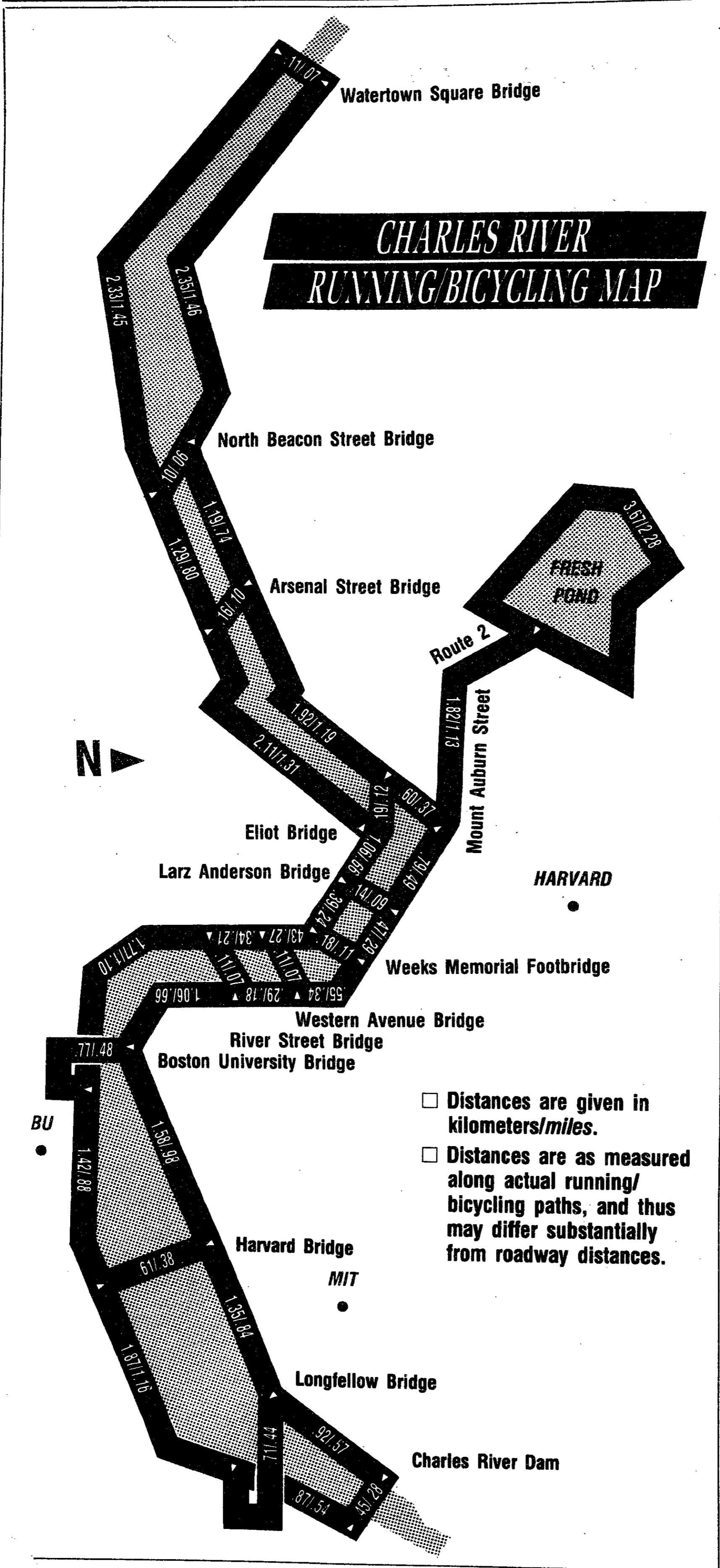
Why so cheap? Bob sent Brian to a leather jacket manufacturer who has built a reputation in the area for quality goods. When they have an accumulation of irregulars, they call us and make a deal. We can't tell you the name of the well-known "upstairs" store where Pat told Jerry he saw them selling at twice the price, but we can promise you that each and every jacket is a genuine bonafide guaranteed BARGAIN!

Hell, I know you wouldn't shop in a mess like ours with haphazard displays, winding aisles, no charge accounts or credit cards, and unsophisticated salespeople unless our prices were cheap. They are!

Policlora has it that Building #19 got its name from a warehouse of that name in the Hingham shipyard, where a merchant decided to save transportation costs by selling goods directly from the warehouse. The Hingham store has moved out of the shipyard, but is still known as Building #19, while the Burlington branch is Building #19A and the Norwood outlet is Building #19B.

There are also stores in Haverhill, Natick, Lynn and other places you can't easily get to via MBTA buses. Have a cheap day.

— Diana ben-Aaron



ICE CREAM CONTINUED

ramifications of Coke versus Pepsi, and in many ice cream parlors is a closely guarded part of "secret" recipes. Increasing or decreasing the amount or brand of chocolate will change the intensity of the recipe, and changing the sugar content will sweeten or bitter the flavor. My recipes are not very sweet; bringing the sugar up to a half cup or even 2 tablespoons more might please you better.

- Some example recipes:
- Milk Chocolate:** use 1 1/2 ounces chocolate and 2 cups minus two tablespoons sugar;
 - Chocolate Cherries:** add 1 ounce of kirschwasser or other cherry liqueur to the Milk Chocolate recipe;
 - Dark:** use the recipe above, with dark chocolate instead of milk chocolate;
 - Samurai Dark:** use above recipe with 3 ounces of chocolate.

WHAT ABOUT SHERBETS?
Sherbet is even easier than the other recipes. Just dissolve 1/2 to 3/4 cup sugar in 1/2 to 3/4 cup fruit juice, and add enough milk or light cream to bring the mix up to 2 cups. Stir well and freeze. Try adding grated fruit rind or whole mint leaves to the mix.

Sorbet is made in much the same way. This recipe uses gelatin, a minor variation on the theme, to lighten it up even a bit more. Soak 1 tablespoon unflavored gelatin in 4 tablespoons cold water. Make a sugar syrup by boiling for 10 minutes 1/2 cup water and 1/2 cup sugar. Remove from heat, and dissolve the gelatin in the hot syrup. When the syrup is cool, add 1/2 to 3/4 cup fruit juice. Beat an egg white until stiff and stir into the mixture. Freeze. Naturally, sweeter fruits will want less sugar, and less intense fruits will want more juices.

THE RIGHT STUFFS
Now that you are ready to make ice cream, you will need the appropriate condiments. Whipped cream, marshmallow, and nuts are a good start, but also try fruit preserves, fresh fruit, and ground up candies and cookies. And don't forget hot fudge... To make awesome hot fudge, first melt 3 tablespoons unsalted butter in a small saucepan and add 1/2 cup heavy cream. Dissolve 1/2 cup granulated sugar and 1/4 cup dark brown sugar. Heat and stir - don't boil - until fully dissolved, and then mix in 1/2 cup sifted alkali process ("Dutch") cocoa. (I use Droste cocoa; Hershey's just isn't right.) Add a pinch of salt to finish it off. Allow to cool overnight, and then reheat, for maximum flavor.

WRAPPING IT ALL UP
If there is one thing that is key to making good ice cream, it is experimentation. Local ice cream parlors pride themselves on their esoteric flavors, and so can you. I am told beer sherbet is good, as is bourbon praline ice cream. And how about ginger? Or rhubarb?
Good luck, and happy dieting.
- Bill Coderre

COMPUTERS CONTINUED

\$2000. For that kind of money, you could learn to tolerate the awful PC graphics.

COMPUTERS FOR COMPUTERS' SAKE
If computers are your favorite thing after McDonald's french fries, MIT has more ways for you to hack your little heart out. You can even get paid. First, you can get a job. Both Athena and UROP need students. The big difference is that computers are your job when you work for Athena, and only a means to an end when you UROP. Big difference - do you like research, or do you like to help bewildered students in the Athena-villes? You don't have to be Course 6 to hack computers. Almost every department has research involving computers, and if you know more than just computers, you'll be quite a bit more valuable. As computers become more commonplace, the other things you know will be more important than your computer skills.

The other good alternative is to join the Student Information Processing Board. SIPP, as it's lovingly referred to, attempts to bridge the chasm between students and the Athena power structure. As a joke, the SIPPoids got jerseys with greek letters, but in some ways, they are evolving into a computer service fraternity. They do good work, and are the only organized voice for students when the big decisions about computers are made. They also write and distribute useful software, softening the harsh edges of Project Athena. All in all, a frighteningly useful organization as long as they don't adopt initiation rites.

WELCOME TO THE FIREHOSE
Using computers, like everything else at MIT, resembles "taking a drink from a firehose." Good luck, and remember, computers are just tools, and you shouldn't be one.
- Ken Meltsner

Arts ARTS Arts

Concert agreeable, not spectacular

New Currents at the ICA

Boston Museum Trio with Christopher Krueger, baroque flute, Museum of Fine Arts, September 26; to be repeated September 29 at 3pm.

The first of this season's concerts at the Museum of Fine Arts was agreeable, rather than spectacular. John Gibbons did play with elegance and wit in this all-Bach concert; and Laura Jeppesen contributed some colorful gamba playing. But Daniel Stepner did not seem quite relaxed — and fell short of his normally exacting standards — while Christopher Krueger was also sometimes off-par.

The evening started with the *Sonata for Violin and Basso continuo in G*, BWV 1021. Gibbons' firm touch gave the continuo a resilient quality which added pleasure, not just polish, to the occasionally squeaky solo playing of Daniel Stepner.

The crisp harpsichord of John Gibbons was complemented by the stylish gamba bowing of Laura Jeppesen to add pique to the melancholy introduced by Christopher Krueger's flute in *Diess sind die heil'gen zehn Gebot*, BWV 678 and *Fughetta super Diess sind die heil'gen zehn Gebot*, BWV 679 from *Dritter Theil der Clavier Uebung*. There was a delightful passage of

rhythms between instruments: The interchange between violin, flute and gamba built on the subtle textures of this piece.

The *Sonata for Harpsichord and Flute in B minor*, BWV 1030 was less satisfying. While we heard further brilliant harpsichord playing, and some virtuosic work from Christopher Krueger — particularly in the *presto*, Krueger lapsed into blandness for several passages that were polite, rather than majestic.

The highlight of the evening came in Gibbons' and Jeppesen's rendition of the *Sonata for Harpsichord and Viola da gamba in G*, BWV 1027. Jeppesen's gamba glowed and blended smoothly with Gibbons' harpsichord playing. The sound was full; the intertwining harmonies satisfying.

Gibbons' harpsichord playing remained animated to the end of the final work — *Sonata on the Royal Theme for Flute Violin, and Basso continuo*, BWV 1079,8 from the *Musical Offering*. Stepner did put in some fine violin playing, and Krueger's sound expanded its palette, but altogether the evening ended on a pleasant, not exultant note.

Jonathan Richmond

Currents, through November 24, at the Institute of Contemporary Art, 955 Boylston St., Boston (open Wednesday-Sunday 11am-5pm, admission \$2.50, students \$1; also Fri. 5-8pm, admission free to all).

This season's first installment of *Currents* at the Institute of Contemporary Art continues a two-year tradition. It is a cross-section of the art scene with work in different media and widely varying styles. In line with tradition, most works are interesting and the overall effect confused. No single approach prevails: anything will do, as long as it is done well.

If, for lack of a better principle, I arrange artists by degree of extroversion, the Spanish painter José María Sicilia ends up in front. His huge paintings attack the senses with thick layers of intensely colored acrylic. Organic motives — tulips, to

be precise — wind their way through zones of violent articulation framed in geometrical backgrounds.

On the opposite end of the scale, Peter Halley constructs cool and rather austere geometric compositions of cells and conduits. They are done with a material called Roll-a-tex, which makes them glow like terminal screens stared at too long and too intensely. No doubt this goes well with their intended impact.

With Will Mentor, we enter the realm of figuration. By confronting distinct pieces of reality à la Magritte or quietly juxtaposing them as in traditional still life, this young Iowa-based painter builds up puzzling compositions. At first glance they suggest the workings of the subconscious, but when I asked him about it Mentor (Please turn to page 8)

After Hours' Merry-Go-Round of Horror and Humour

After Hours, a Martin Scorsese film. Written by Joseph Minion. Starring Griffin Dunne, Rosanna Arquette, Teri Garr, Linda Fiorentino. Directed by Martin Scorsese. Opening today at Sack Cheri and Harvard Square Theatre. Rated R

Rarely will you come across as circumstantial and circular a plot as *After Hours*. Screenwriter Joseph Minion, makes his Hollywood debut with this compelling film.

By and large I would attribute the success completely to Minion were it not for the dynamic, stupefying directing by Scorsese and the spontaneous cinematic *savoir-faire* of the cast. One gets the feeling that Scorsese is riding the camera like a rodeo cowboy on a savage mustang; the beast bursting in all directions trying to buck him, yet he remaining in graceful control. We, the audience, start to live in his images.

Everything in this film left me satisfied: the contrast created by the office scene with Mozart's *Symphony in D-Major* and the scene in the punk discotheque, underscored by Bad Brains' "Pay to Cum." The close up of Soho, the artsy protagonists, and the set of coincidences which take our

quasi-hero Paul (played by Griffin Dunne of *An American Werewolf in London* fame) on an urban merry-go-round of horror, gore, but most of all laughter.

What is most appealing about *After Hours* is that it will make you laugh, only to find yourself, minutes later, feeling strange; shocked at yourself. In the worst case you might even question your morality.

Your imagination is constantly being challenged; you can never allow yourself to trust your expectations or you'll slip and painfully land (while laughing) on your psychological backside.

I was not surprised when a riot almost broke out at the preview screening. The film was interrupted before the end. One of the cinema's proprietors came into the hall to observe the reaction of the invited guests. Some in the audience were making their way out, thinking the movie had finished. Thank God we were allowed to see the end. I can think of few things that agitate us so excruciatingly if left unfinished.

Hardly surprising that Dusan Makavejev (*Sweet Movie*, *Montenegro* and recently *The Coca Cola Kid*) was so enthused by the script before it was approved for pro-

duction. The shocking humor of *After Hours* is reminiscent of the great work of the Yugoslav filmmaker. Even Thomas Cifong and Richard Marin (Chong and Cheech) do not look out of place in this remarkable black (yet colored) comedy.

The story is seemingly simple. Paul, yet another victim of "terminal employment," while sipping coffee and reading Miller in a diner meets Marcy (played by Rosanna Arquette.) He obtains her telephone number, and later in the comfort of his home, he calls her. She invites him over. From this point on what happens can best be summarized by one of Paul's desperate monologues:

"I met this girl. I got to know this girl. She gave me her phone number. In a cab on the way down to her friend's house all my money flew out of the window. Now, when I got to know her better, I must say I really didn't like her. So I left. I tried to take the subway but the fare went up. . . . I have had a terrible night, do you understand TERRIBLE night. . . ."

Paul becomes a persecutee of the Soho community and his home, a mere abstraction. When one of the cast shrieks: "Surrender Dorothy!" one cannot help but re-



alize the connection between Oz and Soho, Alice and Paul.

Poor soul, will he ever make it home? I have given nothing away. I only hope I've said enough to make you go.

Corrado Giambalvo

Erratum

The final paragraph of column 1 of the review of the September 21 recital by Rose Mary and John Harbison should have read: "John Harbison challenged Rose Mary to learn Bach's *Sonata in C*, BWV 1005 for unaccompanied violin. "As the other side of the bargain I agreed to write a piece and got by far the easier side of the bargain," he said introducing the concert to the audience."

21.60 problem set?

The Tech Performing Arts Series presents. . .

DONNA STOERING

pianist

Works by Chopin, Debussy, Benjamin Lees and others.
Edward Pickman Hall, Longy School of Music,
September 27, 8pm. MIT price: \$5.

BOSTON PREMIERE ENSEMBLE

Delights of Three

Three solo pianists will perform works by Debussy, Chopin, Schumann and Mendelssohn on authentic 19th century pianos. Sanders Theatre, Harvard, September 29, 3pm. MIT price: \$6.

CONCERTGEBOUW ORCHESTRA

Bernard Haitink, conductor

Haydn, *Symphony No. 88*; Mahler *Symphony No. 5*.
Symphony Hall, September 30, 8pm. MIT price: \$8.

BOSTON LYRIC OPERA

Agrippina

Handel's *Agrippina*, Northeastern University,
Alumni Auditorium. October 4 at 8pm
and October 6 at 3pm. MIT price: \$6.

BANCHETTO MUSICALE

The Virtuoso Baroque

Daniel Stepner will play Bach's *Violin Concerto in D minor*; program also includes Rebel's *Les Elements*, Handel's *Agrippina condatta a morire* and Bach's *Suite No. 2*.
Jordan Hall, October 4, 8pm MIT price: \$5

SINFONOVA

All Mozart Concert

Includes Mozart's *Concerto for two pianos in E flat, K.365* and the Boston premiere of Mozart's newly rediscovered *Symphony in A minor, K.16a*.
Jordan Hall, October 11, 8pm. MIT price: \$6.

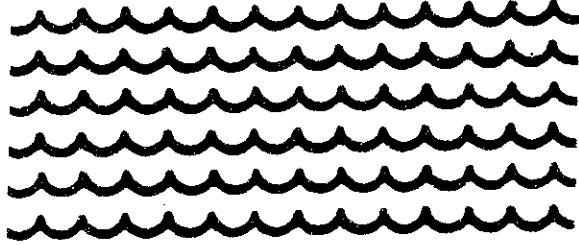
Tickets for all six events are on sale courtesy of the Technology Community Association.

Drop by Room W20-450 in the Student Center, or call 253-4885 to check on availability.

The Tech Performing Arts Series, a service for the entire MIT community from The Tech, MIT's student newspaper.

GET OUT ON THE TOWN WITH THE TECH PERFORMING ARTS SERIES. . . !

Currents continued



himself deemed this inessential, a mere manifestation of his general interest in establishing the unity of inner and outer experience. In any case, ambiguity is enhanced by his eclectic style, which incorporates Surrealist and Cubist idiom with equal ease.

Similar problems beset the interpretation of Carroll Dunham's paintings. His imagery is less clearly figurative, and sometimes (particularly in his very recent works) not noticeably figurative at all. But for the captions, one would be at a loss to assign a specific meaning to any of these works. Yet it is hard to overlook the recurring presence of sexual symbolism — phallic shapes in particular, which seem to constitute Dunham's pet motives. Add to this sharp colors and exuberant configurations and out pops something like a present-day Hieronymus Bosch

From Britain, Bill Woodrow brings us sculptural installations made out of *objets trouvés* in the venerable — if somewhat harsh — spirit of Duchamp. As with most work in this genre, a certain facility of association on the viewer's part is taken for granted.

The photography component, finally, consists of work by Barbara Ess. She uses a pinhole camera: the film is put in a simple box with a tiny opening. This produces a rather soft image with a weird distribution of light. The apparatus has an unmistakable tendency to yield schmaltz, but Ess knows how to avoid that. She comes up with eerie, hallucinatory shots in which the potential of the camera is strongly supported by a sharp eye for tilted lines and oblique angles. The result is a haunted, dreamlike world on the brink of consciousness.

The sculptural structure *Atomic Time +/- Control* by Howard Fried — specially commissioned for this exhibition — was not yet entirely set up last week, but should be completed by now. Another installation, made by sculptor Taylor McLean on the roof of his studio, is accessible by free tours organized by the ICA on Fridays, Saturdays and Sundays. And, as usual, a visit to the ICA includes the option of watching art videos downstairs.

Michiel Bos

classified advertising

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Friday, September 27

Donna Stoering will perform piano works by Chopin, Debussy, Benjamin Lees and others at the Longy School of Music, Cambridge at 8pm. *The Tech Performing Arts Series event, tickets only \$5 if purchased from the Technology Community Association, W20-450.*

G.W.Pabst's version of the Brecht/Weil classic *The Threepenny Opera* comes to 10-250 tonight, at 7:30pm.

Of more recent date, Tootsie will be shown at 7 and 10 in 26-100.

Boston Academy of Music will feature music by Gershwin in the first and second church of Boston at 7:30pm. Tickets are \$5 for students at the door and otherwise \$8 and \$10. Repeats tomorrow.

Saturday, September 28

LSC has *The Falcon* and *the Snowman* at 7 and 10pm in 26-100.

At the Cantares Comedy Club Guilty Children will be performing tonight and every Saturday at 9pm. The Club is 15 Springfield, St. Inman Sq., Cambridge. Tickets are \$5, \$3 for students.

Sunday, September 29

The French Connection in 26-100 today, at 6:30 and 9pm.

Boston Premiere Ensemble presents *Delights of Three*, at 3pm in Sanders Theater, Cambridge MA. The concert will feature Heng-Jin Park, Charles Fisk and Lois

On The Town On The Town On The Town

arts

Shapiro performing on three 19th century pianos. The program will include Debussy, Chopin, Schumann and Mendelssohn. *The Tech Performing Arts Series event, tickets only \$6 if purchased from the Technology Community Association, W20-450.*

The last day to see the James Williams Quintet at the Willow Jazz Club, 699 Broadway, Ball Sq. Somerville. Tel. 623-9874

The Sunday Brunch Theater presents *Two By Beckett* (Ohio Impromptu and A Piece of Monologue) at the Peasant Stock Restaurant, 415 Washington St., Som. (354-9528). Brunch served at noon performance at 1pm. Tickets \$9.

Monday, September 30

Concertgebouw Orchestra, Bernard Haitink, conductor. Haydn's *Symphony No. 88* and Mahler's *Symphony No. 5*, Symphony Hall, 8pm. *The Tech Performing Arts Series event, tickets only \$8 if purchased from the Technology Community Association, W20-450.*

The exhibition *Berenice Abbott: Vision of the 20th Century* opens at the MIT Museum. Abbott, a living legend in photography, will attend the public reception, 5-7pm.

Tuesday, October 1

Festivities start today in connection with the official opening of the Wiesner Building (formerly the Arts and Media Technology Building, E15). At 6pm, three new exhibitions will open to the public: *Private Works by Public Artists*, which features Scott Burton, Richard Fleischner and Kenneth Noland, in the Hayden Gallery; *Henry Moore, Figures and Forms*, in the Sculpture Archives Gallery; and *Kindness*, the fruit of Ping Chong's residence at MIT, in the Reference Gallery.

Wednesday, October 2

At the Listening Room at Passim's Shrine Klezmer Orchestra will be played, 47 Palmer St., Harvard Sq., 492-7679.

Thursday, October 3

BSO violinist Ernan Levy and harpsichordist Robert Gronquist, Professor of Music at Simmons College, play Baroque Sonatas in this week's Noon Hour Chapel Concert, at 12:05pm.

MIT Dramashop presents *An Evening of One-Act Plays* in Kresge Little Theatre, with *Mother's Day* by J.B.Priestly, *What Where* by Samuel Beckett, and *The Pen of My Aunt* by G.Daviot. It starts at 8pm and admission is free.

Michiel Bos
David Waldes

arts

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WEST PLAZA SCHEDULING

Applications are now being accepted for the Spring Semester for Kresge Auditorium (primarily days), the Student Center, and the West Plaza Grounds. Applications may be obtained in the Campus Activities Office (W20-345) on October 1, 1985. Below is the chart for deadlines and approval dates.

TIME PERIOD	DEADLINE	APPROVED BY
IAP/SPRING	Friday October 18, 1985	Thursday November 1, 1985
Jan. 1 - May 31	1985	1985

Applications will be accepted on a rolling basis after November 1, 1985. Chapel reservations are accepted on a rolling basis.

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MacVicar to study MIT's curriculum

(Continued from page 1)

Dean for Student Affairs, the Dean for Undergraduate Education and the Dean for Graduate Education will work closely together in "focusing on all aspects of the living environment at MIT."

"If you have a structure designed to support particular lines of communication, then things go better," Keyser said.

Undergraduate Association President Bryan R. Moser '87 said that he saw no disadvantages with the new organization of academic offices.

"It's just common sense," Moser said. "The whole idea was to streamline the offices. Anything that centralizes tasks more is helpful."

The changes put the provost in a position to jointly view affairs "in and out of the classroom," Deutch said.

Deutch cited examples of educational issues to be discussed in coming years by Keyser, MacVicar and the faculty. They include the emphasis given to the Humanities program, the structure of the Humanities Distribution requirement and the science core requirements.

Keyser said that in reappraising undergraduate education, the faculty must ask itself a number of fundamental questions about the goals of an MIT education. Keyser asked: "What is it that our students ought to know when they graduate? The undergraduate education — is it too intense or too narrow?"

Deutch said that he suggested the rearrangement of the academic offices to President Paul E. Gray '54 when he accepted the position of provost. Gray agreed to the idea. At the same time, the Committee on Educational Policy (CEP) was conducting a year-long study on the structure of MIT's academic offices.

Deutch said that it was a "happy circumstance" that both he and the CEP had similar ideas about reorganizing the offices. Simonides agreed that the change in the organization was partly a result of favorable timing.

"A good idea must have the right timing, and right timing is when there is a consensus of the faculty," Simonides explained. "It takes time for a building up of consensus and agreement."

The changes were "primarily the thought of the new provost [Deutch], but he talked to everybody," he said.

Deutch said he felt that Keyser and MacVicar are "an outstanding combination and are working

with faculty to make a major, positive change."

"The choice of Keyser had an element of genius in it," Simonides said. Keyser is "deeply involved in the academic programs."

Keyser is also the housemaster of Senior House. "I think it's very good to be a housemaster," Keyser explained. "It's absolutely crucial to have an understanding of student life after 5 o'clock. At night, the character of MIT changes. The Institute is a city for the students. You have to understand the environment."

The choice of MacVicar as Dean for Undergraduate Education was "another 100 percent strike," Simonides added. Her position as a professor of physical sciences and as the founder and director of UROP "combine the research interests of the faculty with the students."

"Formally, I will still be the director of UROP," MacVicar said, "but I'll step back from the operational development. If I had to give up UROP completely, that would have been a big sacrifice."

MacVicar will also chair the Committee on the Undergraduate Program, which is one of the two committees created upon the disbanding of CEP.

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Refreshments will be served.

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Office Specialists

sports

Women's volleyball remains undefeated

By Minor Huffman
The women's volleyball team defeated Boston College (BC) 3-2 in front of 75 boisterous fans Wednesday, boosting its record to 2-0.

All five returning letterwinners — Michelle Eisgruber '86, Captain Jennifer Smith '86, Rachel Chin '87, Judy Mourant '87 and Julie Brown '88 — started for MIT, along with Teresa Lowenstein '89. Engineer substitutes were Rajni Aggarwal '89, Athena Cozacos '89 and Elizabeth Turtle '89.

MIT jumped to a 7-3 lead in the first game, but BC's Eagles came back for a 7-7 tie, using their height advantage and superior spiking and blocking. The Engineers, handicapped by inexperience, regained a 2-10 lead but finally lost the game 13-15.

The Engineers gained an 8-6 lead in the second game with superior net work by Lowenstein and Eisgruber. The game then remained close until an MIT run of five unanswered points gave the team the victory, 15-10.

MIT leaped to a 10-0 lead in game three. They capitalized on numerous Eagle miscues but lost momentum after reaching match point, allowing BC to overtake them 12-11. After coach Karyn Altman-Velazquez '78 regrouped her squad during a timeout, the Engineers took the game 15-13.

MIT once again achieved an early lead in the fourth game, 4-0, but the hard-spiking Eagles fought back to 10-7. Inexperience and nervousness played against the Engineers as they fell 15-8.

The rubber game began with consistent play from both teams, with the score standing 8-5 in favor of the Engineers at the final rotation. MIT did not lose another point after that as they rumbled to a 15-5 victory to win the match.

The Engineers, second in the nation in the National Collegiate Athletics Association's Division III finals last year, began their season with a 3-0 shutout against Salem State last week.

The squad appears to be playing well, despite the graduation of four starters in June, including two All-Americans. Assistant coach Armando Hernandez '86 said they are "quick but still working on their basic skills."



Tech photo by Stephen P. Berczuk
Michelle Eisgruber '86 prepares to bump the ball during a volleyball game Wednesday. The women's volleyball team defeated Boston College, 3-2.

on deck

Weekend home events

Saturday, Sept. 28
Varsity Sailing, BYO Windsurfer Invitational, 9:30 am.
Field Hockey vs. Clark, 10 am.
Baseball, MIT Classic Tournament, 10:30 am.
Football vs. Merrimack, 1 pm.
Sunday, Sept. 29
Baseball, MIT Classic Tournament, 11 am.

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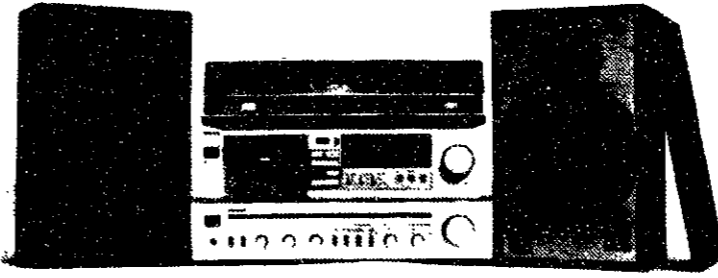
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