

79% get first housing choice

By Kathleen M. O'Connell
Of students assigned to Institute houses in the first round of housing assignments last night, 79.4 percent received their first choice, according to Associate Dean for Student Affairs Robert A. Sherwood. No anti-rush problems have been reported, Sherwood said.

Only 88 new students remain in Limbo after the first round, compared to 139 last year, Sherwood said. These students will enter the second round of the housing lottery tomorrow, when "more spaces will open up as freshmen accept bids from fraternities," he explained.

Eight hundred and one freshmen and transfer students submitted preference cards for dormitory assignments. The Institute House system had room for 611 new students at normal capacity, with 107 more spaces available under crowded conditions for a total of 718 places. After six rounds of choices, 713 students were assigned to dormitories, filling up all presently available spaces in every living group except Russian House.

These figures include 40 transfer students who are guaranteed housing by MIT, said Kathleen F. Haskell, staff assistant for residence programs. This year's

transfer class numbers about 100 students.

Projected at 1076 students at midsummer, the final size of the Class of 1988 is 1065. There are still six freshmen who have neither arrived at MIT nor notified the Institute that they no longer plan to enroll. "The Dean's Office will call these students tomorrow to see what the story is," Sherwood said.

Students who are dissatisfied with housing assignments they received in this round of the housing lottery may voluntarily put themselves back in Limbo in the hope of being assigned to a different dorm. Last year 46 students chose to do this, and 84 percent of the students in Limbo eventually received first-choice housing.

The most popular dormitory this year was Burton-Conner, which 144 people designated as first choice. Burton also has the highest number of crowded rooms this year, with 25 doubles crowded to become triples.

Only Bexley, Senior House, and Russian House were chosen by fewer than half of the number of people for whom they had space. MacGregor was also undersubscribed, while Random Hall and Spanish House had only a few more spaces than people designating them as first choice.

Over 260 freshmen pledge frats

By Daniel Crean

There was a high turnout of freshmen to the fraternities, Interfraternity Conference Rush Chairman Thomas A. Schmitter '86 announced last night. Only ten male freshmen have not visited a fraternity, he said.

Over 260 new students have pledged fraternities as of last night, according to Associate Dean for Student Affairs Robert A. Sherwood. "[The number of pledges is] much higher than usual for Monday night," Sherwood said.

"[Fraternity rush is] going fantastic . . . Things look very good," Schmitter commented.

IFC Judicial Committee Chairman David Kravitz '85 said there seemed to be no rush violations

this year. "There have been no formal complaints filed," he noted yesterday.

"We're running very smoothly," said Anthony Della Fera '84, Clearinghouse coordinator. Clearinghouse is a system on the Electrical Engineering and Computer Science department computer that keeps track of freshmen and transfer students in rush. New students must sign in and out of living groups, and living groups relay the information to the eight Clearinghouse operators. Clearinghouse would have preferred to have had ten operators, but budget constraints and rising phone line costs kept the operation down, Della Fera said.

Fraternities extended their first bids Sunday morning and new



Tech Photo by Simson L. Garfinkel
Let the Rush begin!

LSC to follow ODSA policy on sexually explicit films

By Diana ben-Aaron

Lecture Series Committee (LSC) chairman Timothy L. Huckelbery '84 yesterday called the pornography policy statement released by the Office of the Dean

for Student Affairs (ODSA) last month "a compromise between not being able to show [pornographic films] at all and being able to show them any time."

Under the policy, MIT will not restrict the showing of sexually explicit films by categorically denying space, but will set down guidelines for their showing.

LSC members' reactions to the policy ranged from "confused to angry, depending on who you ask," Huckelbery said.

The policy calls for a review committee of approximately 12 individuals appointed by McBay to set guidelines for sexually explicit films that may be shown on campus and review all X-rated and unrated sexually explicit films before these films are shown on campus to determine whether they meet its criteria.

"We're going to be pretty active on this committee," said Huckelbery. "We hope to get nice realistic, clear-cut guidelines set down."

Films the review committee deems unacceptable may not be shown in Kresge Auditorium, according to the policy. It also calls for groups planning to show such films to notify the ODSA at least six weeks in advance so alternative activities may be planned.

"We hope to find films acceptable to the committee so we won't have to deal with guidelines for unacceptable films; we hope to get movies everyone can come see," Huckelbery said.

He criticized the requirement for alternative activities, saying, "It seems silly, especially when we have Boston and Cambridge around us, to say people will do nothing or go to a triple X-rated movie. It's sort of demeaning to students. [LSC] has never assumed that."

"A lot was stuff we have been doing or are thinking of doing . . . for instance, the [statement in the policy about maintaining decorum at sexually explicit films] is obvious," Huckelbery noted.

Over 1500 people attended *The Dancers*, a triple X-rated movie

LSC showed at the end of last term, while an estimated 2600 people viewed *Take Off*, also rated triple-X, when LSC showed it on Registration Day last fall.

"There is no way without Kresge that that many people can see a movie. [The policy] will deny a lot of people attendance, Huckelbery said.

"The real test is which and how many films will be judged acceptable. If the committee can't accept anything, this will be a restriction, not a set of guidelines," Huckelbery commented.

"I got together with Dave Libby, Shirley McBay to talk about who would be on the committee, and we think it will be composed of three LSC members, three other students nominated by the UA Nominations Committee, three members of the faculty, and three members of the staff," Huckelbery said.

"Dean McBay doesn't want to be on it, which is kind of sad. She says she doesn't have time and she doesn't want to see the films," Huckelbery said. "People who are on it are going to realize that they have to watch a lot of triple-X rated films," he added.

No LSC representatives were invited to the July 12 meeting of approximately 20 individuals from around the Institute convened by Dean McBay, he said, noting that the meeting produced a rough draft of the policy statement.

"I submitted a 5-page critique of the first draft, and we were invited to a second meeting [held on July 26]," Huckelbery said. "We did have some input into the guidelines, but not all of it was accepted," Huckelbery commented.

"We see their point about viewers' behavior disturbing residents of McCormick and Green Hall, but by showing the movies in 26-100 we're saying people on the east side of campus don't count. In fact, the audience will probably be in worse spirits because 26-100 will be packed," Huckelbery continued.

Students assigned to Institute houses

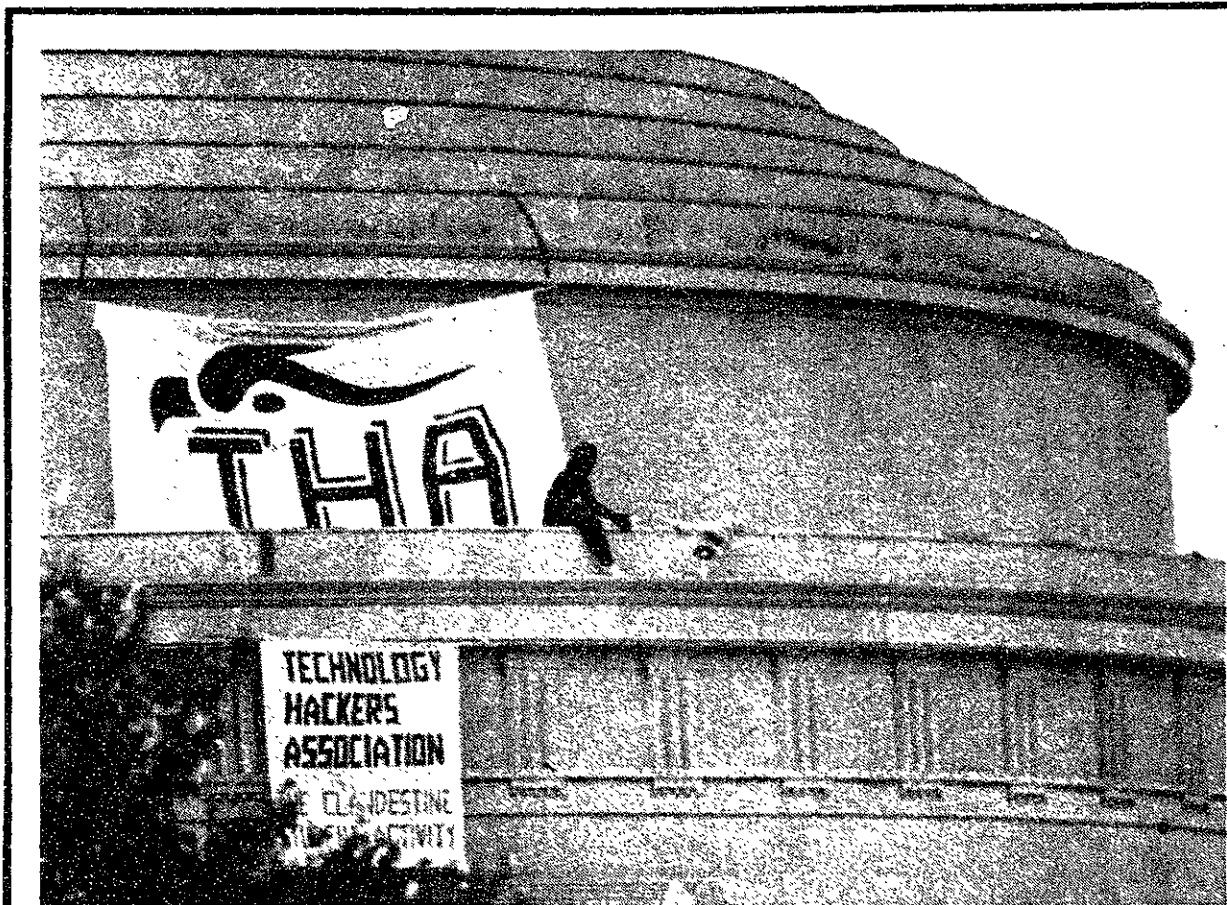
House	Spaces	first choice		second choice		3-6 choice	
		M	F	M	F	M	F
Baker	86 + 15cr	62	39				
Bexley	39	5	4	5	2	16	7
Burton	74 + 25cr	57	42				
East Campus	86 + 20cr	62	27	0	11	0	6
MacGregor	89	49		18		22	
McCormick	43 + 10cr		53				
New House	34 + 17cr	33	16	0	2		
Random	24	10	4	0	2	0	8
Senior	64	15	6	4	0	29	10
French	6 + 1cr	5	2				
German	6	5	1				
Russian	8 + 1cr	0	1			0	3
Spanish	6 + 1cr	5	0	0	1	0	1
500 Mem	46 + 17cr	34	29				
TOTALS	611 + 107cr	342	224	27	18	70	50

Students in limbo: 88

Percentage of 1st choice assignments: 79.4%

Source: Office of the Dean for Student Affairs.

Tech Graphic by Elsa Chen and Scott I. Chase



Tech Photo by Simson L. Garfinkel
An unidentified hacker unfurls a drop poster at the Freshman Picnic Friday.

notices

Listings

Tuesday, Sept. 25

Learn about Premenstrual Syndrome (PMS): what it is; what you can do about it; non-medical intervention techniques; and resources in the area. A PMS workshop will be held at the Cambridge YWCA, 7 Temple St., from 10 am to 2 pm. \$10/members, \$13/others. For more information, call 491-6050.

Ongoing

The following exhibits are being held at the MIT Museum: **A Bunch of Electricals: An MIT Electrical Engineering Retrospective**, a celebration of the centenary of the Electrical Engineering Dept. Included are the Bush Differential Analyzer and the Edison Dynamo given to the Institute by Thomas A. Edison in 1887. **Math in 3D: Geometric Sculptures by Morton C. Bradley, Jr.**, sixteen sculptures based on mathematical formulae. Form and color relation give these works a unique visual appeal. **Images of Change**, fifty color photographs by Clinton Andrews. A subjective view of the issues and technologies bringing changing to northern areas of Pakistan and India. 265 Massachusetts Ave. Monday-Friday 9 am to 5 pm. Free.

The following exhibit is being held at the Margaret H. Comp-

ton Gallery from April 12 to September 29. **Ring the Banjar! The Banjo in America from Folklore to Factory** will exhibit more than 50 of the most beautiful and historically important American Instruments, dating from the mid-18th century to about 1940. Building 10, 1st floor. Monday through Friday 9 am to 5 pm. Free.

The following exhibits are ongoing at the Hart Nautical Galleries: **MIT Sea Grant**, a review of MIT Ocean research; **Ship Models**, a historical view of the design and construction of ships; and **The Engineering Wizard of Bristol: Nathanael G. Herreshoff**, plans, half-models, equipment, and photographs documenting the renowned yacht designer's application of engineering skills to ship design. Building 5, 1st floor. Monday through Friday 9 am to 5 pm. Free.

Announcements

The MIT Medical Department Pharmacy is extending its hours of operation. As of Tuesday, September 4, the Pharmacy will be open from 8:30 am to 5:30 pm. To take full advantage of these earlier hours, prescriptions may be called in a day in advance and can then be picked up the following morning.

The Off-Campus Housing Service is sponsoring "Roommate Get-Togethers" on Monday September 10, 1984 to assist new and current members of the community in locating housing. These

provide an informal atmosphere for people with vacancies to meet people searching for housing. For more information contact our office in Room E18-301, x3-1493.

The MIT Dance Company School of Boston, presents its ninth year of dance education, offering two fifteen week sessions from September to May. MIT continues its extensive Children's Program for ages 3 to 14, as well as teen and adult classes in modern and jazz. Classes run Monday through Saturday with levels ranging from novice to professional. Aerobics is also offered in the evenings. The School is located at 551 Tremont Street in the Boston Center for the Arts. For more information, please call 482-0351.

The National Consortium for Graduate Degrees for Minorities in Engineering, Inc. (GEM) is now accepting applications for its Graduate Fellowship Program which will provide one hundred-fifty awards to minority students in engineering. Candidates for participation must be American Indian, Black American, Mexican American, or Puerto Rican. Each fellowship pays full tuition and fees at a member university and a stipend of \$5000 for the academic year, as well as provides summer employment at a member-research laboratory. Deadline for application material for the 1985-86 Fellowship Year is December 1, 1984. For further information contact: Graduate Engineering for Minorities, P.O. Box 537, Notre Dame, Indiana 46556.

CARPET SPECIALS

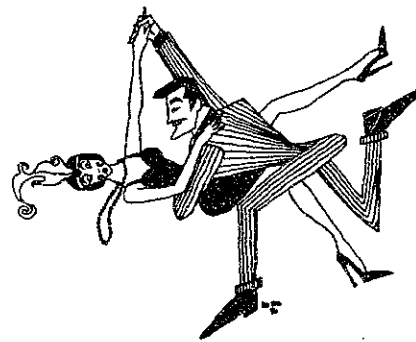
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news roundup

World

Israeli unity talks near collapse — The leaders of Israel's two major political parties said Sunday night that talks on forming a united government faced serious obstacles, and Labor Party officials reported they were near collapse. Labor Alignment leader Shimon Peres and Prime Minister Yitzhak Shamir of Likud have been deadlocked since the parliamentary election five weeks ago, when neither group received a majority of seats in Israel's Knesset.

Sikhs rally against Indian army — Tens of thousands of Sikhs rallied in Amritsar, India, Sunday and called for the liberation of the Golden Temple, their holiest site, from army occupation. Indian soldiers entered the temple in June to dislodge a group of Sikh militants.

Nation

Mondale attacks Republicans on religion issue — Democratic presidential candidate Walter F. Mondale, in a nationwide radio broadcast Sunday, charged the Republicans had "raised doubts whether they respect the wall our founders placed between government and religion" and warned that mixing religion and politics "will corrupt our faith and divide our nation."

Toilet trouble mars shuttle mission — A virtually trouble-free mission of the space shuttle Discovery was marred by plumbing problems this weekend, as ice formed around a nozzle used to discharge waste water from the craft. Crew members were ordered to use plastic bags instead of the toilet. Another part of the mission had greater success, as a chemical processing plant successfully produced materials which will be used next year in drugs for clinical testing on humans.

Weather

And now the bad news — Cool, cloudy weather is expected to last at least through tomorrow, with periods of rain continuing as well. Today's high will be 64-68, tonight's low 54-58. Tomorrow will be slightly warmer, with a high of 68-72, and there will be intervals of sun.

Janice M. Eisen

GRADUATE STUDENT COUNCIL ORIENTATION DANCE



September 7, 1984
9:00PM-1:00AM

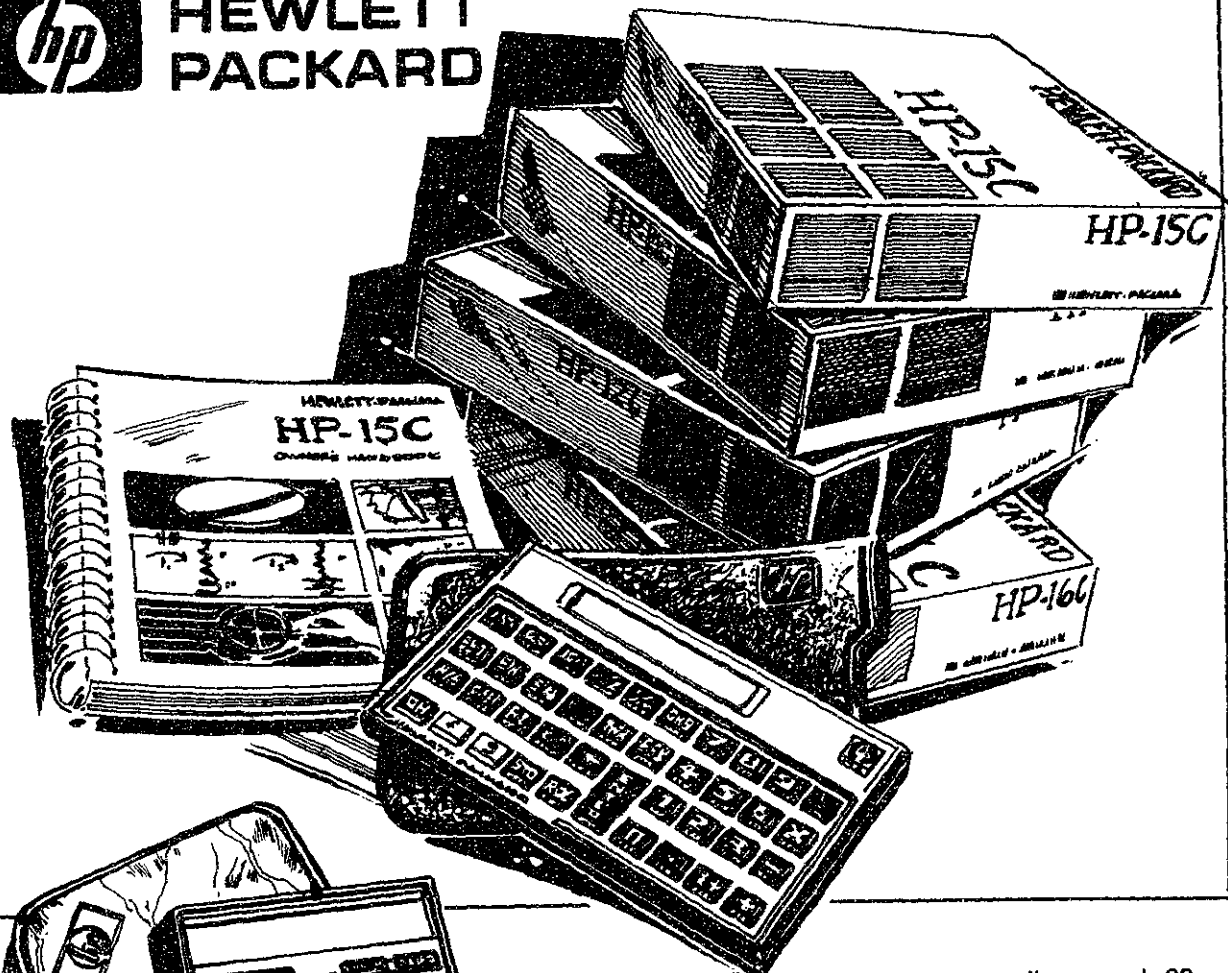
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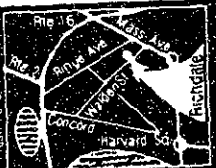
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opinion

Column/Diana ben-Aaron

Freshman worries past and present

"The most stringently enforced of all the freshman rules is that concerning ties. It has been the custom of the freshmen to wear regulation, four-in-hand, cardinal and grey ties, from the first day of classes until the end of the freshman rules period. The custom is enforced by the Freshman Rules Committee. . . It is not the purpose of the rule to persecute freshmen, although a certain amount of persecution is involved."

— The Tech, September 21, 1934.

On page 19 of this year's *HowtoGAMIT* are the freshman regulations of 1928. How archaic, you think. How like high school. Why, modern MIT freshmen are privileged citizens, given free food and invited to participate in special programs. Everyone pats them on the head and readily forgives them their trespasses, from indirection to roof hacking. Imagine discriminating against freshmen in this day and age.

Well, at least one freshman rite of passage was still alive and kicking in 1981. I was part of the last class ever to take the Freshman Quiz, an examination traditionally given to freshmen by upperclassmen on Tuesday morning of R/O week.

During the first weekend of my R/O, I saw some handwritten signs saying, "All freshmen are required to appear in Room 26-100 at 10 am on Tuesday for the Freshman Quiz." The exam was not advertised in the *Daily Confusion* and I later heard that administration officials tore down most of the notices. It sounded like a requirement at the time and I didn't even think of skipping it.

I got up early Tuesday morning and presented myself at the auditorium, where an upperclass proctor demanded to see my temporary ID, wrote "FQ" on it, handed it back, and told me to take a seat. Because of the advertising problems, only about 150 freshmen were there, in varying degrees of apprehension. The guy next to me was upset because he couldn't find a pencil sharpener in 26-100 and he was going to be taking his first MIT exam with a blunt pencil.

At 10 o'clock, the upperclass proctors started handing out exams. The first page of the quiz was a sheet of rules, including instructions not to look at the exam until the proctors told us to open it. We were scrupulous about keeping all the other pages covered with the rule sheet. No one was going to accuse us of cheating on our first MIT quiz. The proctors handed out bluebooks. We wrote our names neatly on our first tests at MIT.

One proctor, who seemed to be in charge, read the rules in forbidding tones while others patrolled the room. Our fright began to evaporate; this was, after all, not very different from SATs or the APs or hundreds of other tests we veterans of the American educational system had undergone. Finally the head proctor gave the order to begin.

The first page seemed straightforward enough. Calculus and computer science. Questions with integral signs, questions on byte sizes. I didn't know what integrals and byte sizes were. On to the next page. "Translate the following [equation] into a limerick . . ." Within five minutes, almost everyone in the room had read the exam through and realized it was a hack. It had joke questions, pun questions, essay questions, questions referring to other questions and the rules, and questions on MIT history and traditions. And we had an hour to answer them.

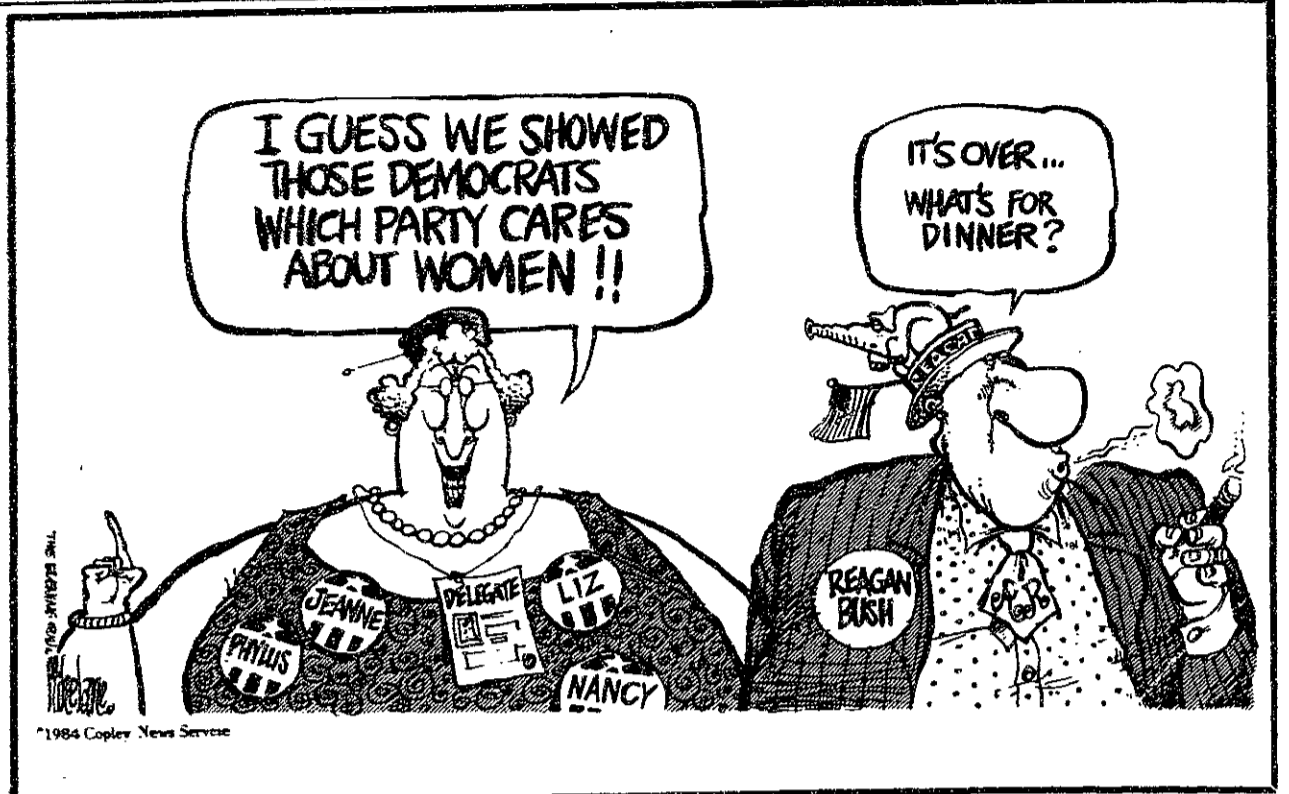
While we weren't able to write down many correct answers, we weren't bored. The Freshman Rules Committee, as the proctors called themselves, had organized several entertainments to keep us busy during the hour. One student used a calculator during the test, and the proctors swooped down on her shouting "How dare you cheat on the Freshman Quiz?" and drove her from the hall. (I later found out she was an upperclassman, "planted" to create a diversion.)

We also watched another upperclassman, who spent the exam sitting at the desk in the front of the room, playing with some electronic parts for no obvious reason. He did nothing all morning but fidget with some wires and wire-strippers while staring vacantly at us through his thick glasses. And the proctors put on quite a show, bustling about officiously scrutinizing our papers, burdened by calculators, slide-rules, briefcases, and enormous sets of keys.

A few freshmen got so involved taking the test they didn't realize what a hack it was until the bluebooks were collected and the head proctor stood up to read us the official answers. The guy next to me, for instance, got bogged down in a programming problem on the first page.

The whole operation, from handing out the tests to dismissing us with an admonition to remember to pick up our corrected

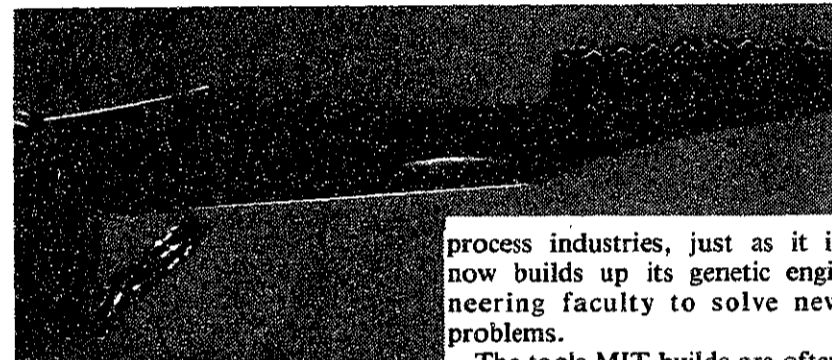
(please turn to page 5)



Column/Ken Meltzer

Cutting into MIT's education with a Swiss Army knife

Most Swiss Army knives have useless tools on them. Mine has the peculiar tool pictured below.



"What is this thing?" asks anyone who borrows it. The answers range from a combination bone-saw and trepanning tool (incorrect — you need to buy the twelve-blade model to get brain surgery tools) to an orange peeler (correct — Swiss Army types apparently do not have fingernails or feel that biting an orange to start the process of peel removal lacks dignity). Of course, the true purpose of the orange peeler is to open locked doors without the use of a key.

An MIT education often resembles a large Swiss Army knife. Consider a senior I know and her well-mixed studies. She managed to take most of the core courses in at least eight different departments while avoiding completing her own departmental requirements. It may seem to be a portmanteau sort of school that allows one to take computer science one day, biology the next, then finish the series with thermodynamics, but it is in the best liberal tradition to allow such mucking about.

Most departments resemble the cheaper Boy Scout knives. Can openers and bottle openers are much too useful, and the same concentration on utility plagues us here. Some Courses believe that a graduate can run off with his bachelor's and get a job as useful professionals. To this end, they load their students with required courses in a vain attempt to pour more knowledge in before it leaks out again. Electrical Engineering is representative of this sort of Course.

The rarest form of education at MIT is the fine German cutlery type. Biology, for example, hones you to a fine edge, training you to slice rapidly into graduate school. You become, at best, a 4" paring knife if you do not continue with your education. Of course, the main problem with really good cutlery is that it rusts when you look at it cross-eyed.

MIT has always had a talent

for devising bizarre implements. It invented Chemical Engineering to solve the needs of the chemical

process industries, just as it is now builds up its genetic engineering faculty to solve new problems.

The tools MIT builds are often too strange to describe without pictures. Consider the unholy combination of metallurgy with ceramic and polymer science. This new trinity has given us the Department of Materials Science and Engineering, which attempts to teach us that glasses are just slow plastics. It appears to be a conceit unique to MIT to think a unified materials curriculum can actually be devised. Most other schools teach the basics of steel mill operations, providing their

students with lucrative positions in a dying industry.

The amazing thing about these mixed-up educations is their utility. One professor of polymers has made big bucks by applying plastic-forming techniques to glasses and glass-forming methods to plastics. In fact, the science of metallurgy is a relatively recent mixture of chemistry, physics and history.

Strangely-shaped problems require strangely-shaped tools. Cognitive science subjects may look as though someone took a blender to a collection of computer science and psychology textbooks, but it does make sense to use computers to model theories of brain behavior in attempt to better understand the mind and how it works.

There really is a connection between Swiss Army knives and an MIT education. It would be terrible if this tool factory only made Boy Scout knives and fine German cutlery. Sometimes you need an orange peeler.

Column/Michael Battat

Political charisma for the media age

I find it amazing how far good looks and decent brains can take a person. I would rather not dwell on my personal example, but rather on Geraldine Ferraro, the "perfect balance" to the Democratic ticket. And she is.

A Harvard friend of mine considers himself quite an expert on political affairs, and when I mentioned to him that I thought Ferraro gave the Democrats a needed boost, he agreed. I found that odd, because we never agree. So I said: "Do you think her lack of experience is a detriment? Or how about her finances?"

"That doesn't matter," he said. "What matters is that she's got great looks. Mondale would be runner-up to a chipmunk at a beauty pageant."

I was shocked! "How can you say such a sexist thing?" I asked. "What's sexist?" he asked. "I was simply making a factual statement. It turns out that, since the advent of television ads and debates, looks play a major part in the elections where sentiment has a negligible effect."

"Ha!" I exclaimed. "Give me an example, you dumb Harvard prep." He's not a really close friend.

"Take 1960," he said. "Nixon

was considered a shoe-in, because of his tremendous experience as vice president and his stand against the Soviets in the Cold War. Kennedy ran a bunch of classy TV ads, and garnered a few votes. But Kennedy really won the election when Nixon decided not to wear makeup during their televised debate. On screen Nixon appeared to have shifty eyes, sweaty forehead, and five-o'clock shadow; Nixon, by his appearance, convinced viewers that Kennedy looked more presidential. And that was the election."

"OK, smart guy, how about 1964? Johnson and Goldwater were both pretty ugly."

"Johnson was a sentimental favorite, after the Kennedy assassination," he said.

"And '68?"

"Humphrey had two strikes against him," he said. "One was Johnson, whose popularity had waned, and the other was the Vietnam War, for which the public held Humphrey partly responsible. Nixon won; he came across as much more presidential in his ads. He even wore antiperspirant on his upper lip."

"You're crazy! Antiperspirant" (Please turn to page 5)

The Tech

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opinion

Three freshman programs

(Continued from page 4)

tests at the Freshman Rules Office, Room 36-099 (which I believe is a broom closet), took about two hours. By the time we got to the R/O Center to pick up our permanent dorm assignments at noon, the mad rush was over and we didn't have to wait in line to find out where we were living.

That was the first function fulfilled by the Freshman Quiz: it got some of the freshmen out of the way during the crunch on Tuesday morning. It also got those who took it over some of their anxiety about taking their first MIT exam, and it taught them the salient points of MIT folklore all at once. My freshman quiz class didn't panic when they handed out bluebooks for real two weeks later, and we never had to ask what a Smoot was or what IHTFP stood for. We heard about the cow on the dome and the batteries at Harvard Stadium all at once, and we were the ones who were telling other freshmen about MIT traditions later in the week.

The Dean's Office outlawed the Freshman Quiz the next year, when the Class of 1986 entered MIT. "We were basically told that no way in hell were we going to get a room to hold it in," a member of the Freshman Rules Committee said. The quiz has not been given since. I'm not sure what the Dean's Office had against the Freshman Quiz. I suspect they thought it cruel and unusual to subject new students to a test their first week at MIT. This makes no sense because the year after the Freshman Quiz breathed its last, MIT instituted a writing exam during R/O week.

We decided to reprint the Freshman Quiz in *The Tech* today to pass it on to the next generation of MIT students in case the climate one day becomes favorable for traditional R/O Week hacks. A drastic reverse might occur any time, you know; as Fred the Dragon said, "Tests are given every time you think you've learned something."

A guide to choosing alternative freshman programs

Those of you who are new to MIT have just decided where you are going to live. For many of you, it was a snap decision made under extreme pressure. Fortunately, you can change your mind if you don't like the place you end up; many students move within and among the living groups at the end of every term.

Beginning tomorrow, you will decide what courses to take your first term. For the most part, these decisions too are reversible; courses may be added until the fifth week of term and dropped until the ninth. But there is one choice you should not postpone: the decision about whether to join one of the alternative academic programs for freshmen. Here are descriptions of the three alternative programs and some rules of thumb for choosing among them:

1) The Experimental Study Group (ESG), which offers a variety of independent and small-group study options, as well as a "Friday Lunch" program of guest lecturers. ESG has lots of R/O activities, including social events and seminars — check the *Daily Confusion* for listings. Freshmen and transfer students can join ESG through the first few weeks of term by visiting the ESG classroom/lounge complex in 24-612 and talking to Professor J. Kim Vandiver '69, ESG director, and Holly Sweet, ESG administrative assistant. Both ESG and Concourse have been around for

about fifteen years.

2) Concourse, in which professors teach the Institute requirements to a group of about fifty students. Students, upperclass tutors, and often professors gather in the Concourse Lounge on weeknights to help one another through the rigorous problem sets. The last class of the week is always the "Concourse Elective" lecture from Professor Jerry Lettvin, director of Concourse, or a guest lecturer. The only way to join Concourse is to show up at the Concourse Lounge opposite 20C-224 between 4 and 6 pm this afternoon to meet Concourse faculty and alumni and to enter the lottery for spaces in the program.

3) The Integrated Studies Program (ISP), which is new this year. ISP is designed to answer the needs of students who want to use their humanities courses to study the history and societal implications of the material they are learning in their science courses. ISP will offer calculus, physics, a nine-unit humanities course; and eight six-unit seminars, on topics from modern industrial problems to Newton. Each student will choose one seminar, and seminars might require short papers or discussions based on reading, depending on the faculty member. A freshman interested in ISP should go to one of their three well-advertised open houses, and can join by calling Anne Armitage at x3-4074 and telling her he wants to be in ISP. Armitage said Friday the presence of a lottery and the opportunity to join after R/O Week will depend on the number of people who express interest in the program during R/O Week. There will be an ISP Lounge in Building E51, and there may be a guest speaker program. "ISP will evolve... not everything will happen on Day One," Armitage commented.

● Concourse teaches 18.01, 8.01, and 3.091. If you have already placed out of more than one of these, you probably don't want to be in Concourse, because you will not be spending enough time in the program to feel part of it. If you have placed out of only one first-term freshman requirement, you can still join Concourse, but because the courses tie together and refer to each other frequently, you will have to make an extra effort to keep track of what everyone else is studying.

● The most satisfied ESG people are the ones who have a good idea what they want to learn from MIT and how they want to learn it (which is not the same as knowing what they want to major in) and design their own program through ESG. If you almost placed out of a subject and want to get it out of the way fast by reviewing just what you need; if you want to take a subject freshmen don't normally take (like 8.03 or 18.100) and want someone to tutor you; if you want to get credit for independent study or design your own course, you should consider ESG. Of course, if you don't know what you want but are attracted to the ESG environment, you can still get a lot out of it. But that's true of the other programs and the regular curriculum too.

● ESG leaves you very much on your own. It is up to each ESG student to keep up with the regular curriculum, identify his own weaknesses, and judge when he has completed a subject. Typically, an ESG student has several private tutorials and study groups a week in lieu of lectures and

recitations (though they are encouraged to attend regular curriculum classes as well). Your tutors may be students — even sophomores. If you need prodding to do your homework, you won't get it from them.

If you do not complete your ESG courses by the end of the term, you will have to finish them over January, next term before you start your new courses, or even over the summer. So be very honest with yourself about how much of a self-starter (and finisher) you are, or you will end up hanging yourself with ESG's ample supply of rope. The inability to teach oneself calculus and physics is very common and does not imply a lack of intelligence or motivation, though it makes life harder. But if you can work on your own, ESG will provide you a friendly and helpful environment in which to do it, and all the credits you can earn.

● Freshman alternative programs aren't for everybody. Many people like regular curriculum freshman classes because there are 500 people in the class — some professors have developed amazing mass communication and crowd control techniques. Public hacks occur in such classes, you can leave without anyone noticing, and there's always someone in your living group to do your homework with.

One of my freshman advisees made the observation — a much more profound one than any I made for his benefit — that MIT is very living-group focused. A freshman alternative program can provide a second focus — an academic focus — and a second group of friends, including professors. That is their most important function and transcends the nuances of subject presentation. Wherever you end up, best wishes for a successful freshman year.

feedback

Disappointed by picture in residence handbook

To the Editor:

I was greatly disappointed when I saw a picture in the 1984-85 Residence Book depicting a door bearing a sign that said "FOR RENT: Wenches."

In a publication that is sent to every member of the Class of 1988, and which is a product of the Dean's Office, I find the inclusion of such a picture unacceptable. For the door to bear such a sign is tolerable, as it reflects the character of the person who post-

ed it. For the Orientation Coordinator to select the picture and for the preparers of the Book to permit this picture to be published is intolerable. As an institution that claims not to discriminate upon the basis of sex, MIT has a goal to eliminate such discriminatory messages and ensure that such displays of sexism should not be given MIT's implicit seal of approval.

Samuel M. Levitin '85

Save 10% off the dinner menu with this ad.

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MONDAY thru FRIDAY 11:30-2:30
ALL YOU CAN EAT \$3.50

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Open Houses and Orientation

Tuesday September 4

10 - 12_N and 1 - 5_{PM}

Thursday September 6

9:30_{AM} - 12_N

ISP OFFERS:

- all freshman core courses
- related humanities courses and seminars to help you explore the historical and philosophical underpinnings of scientific disciplines
- enthusiastic faculty and student tutors
- the advantage of experiencing both large group lectures with other freshmen and small-group interactions in classes, seminars and tutorials designed specifically for you in ISP

Stop by and visit us... we look forward to welcoming you.

opinion

Good looks an advantage in politics

(Continued from page 4)
 ant?" I asked. "Well, OK, I get your drift. And Nixon won in 1972 before Watergate fell."
 "Nixon won because of Watergate, dummy!" he exclaimed. "1972 was fixed. And Carter took 1976 due to a backlash from Watergate."
 "Do you think Ford would have won '76 without Watergate?" I asked.
 "Ford would have been nothing without Watergate," he replied.
 "Okay," I said. "Now you come to 1980. Let me guess. Reagan looked more presidential in the debates. Carter's smile drove the press into boredom, and Reagan offered an intelligent look, even if he didn't have the brains to back it."
 "Good," he said. "You caught on. Carter had a few strikes against him to boot. Billy, Amy, and Miss Lillian, for instance. Really ugly people. If you're going to make your family public,

make sure they look terrific; otherwise, keep them in a closet."
 "And Ferraro now, right?"
 "Not so fast. First, remember Gary Hart. Looked a heck of a lot better than Glenn, and surprised a lot of people when he won New Hampshire. But of the other six, who could have made a significant run against Mondale? Jackson?"
 "Okay, you've made your point," I said. "But Ferraro isn't

running for president, she's running for vice president. Reagan has a few strikes against him, like his standing with the poor and the extremely conservative Republican platform. Still, he has much better looks than Mondale. So, who do you think will win?"
 "I don't know," he said. "I guess I'll decide when I find out which of the four has the best legs."
 Sexist Harvard prep.

notices

Listings

Student activities, administrative offices, academic departments, and other groups — both on and off the MIT campus — can list meetings, activities, and other announcements in *The Tech's* "Notes" section. Send items of interest (typed and double spaced) via Institute mail to "News Notes, *The Tech*, room W20-483," or via US mail to "News Notes, *The Tech*, PO Box 29, MIT Branch, Cambridge, MA 02139." Notes run on a space-available basis only; priority is given to official Institute announcements and MIT student activities. *The Tech* reserves the right to edit all listings, and makes no endorsement of groups or activities listed.

Wednesday, Sept. 5

Beth Israel Hospital's Mind-Body Group Program can teach you to manage your stress by using the relaxation response, awareness training, and exercise. New groups begin. For more information, call 735-3154.

Beth Israel Hospital's Quit Smoking Program helps participants master the art of controlling the urge through hypnosis, relaxation techniques, and the use of new Nicorette gum. New groups begin. For more information, call 735-4735.

Monday, Sept. 10

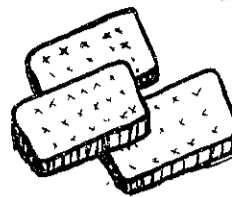
Beth Israel Hospital's Back Pain School teaches back pain sufferers how to manage their pain. Participants learn simple techniques that soothe discomfort. New sessions begin. For more information, call 735-3940.

Wednesday, Sept. 12

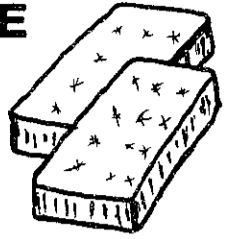
The monthly meeting of Computer Professionals for Social Responsibility (CPSR)/Boston Chapter will be held at 7:30 pm at MIT, 545 Technology Square, Room 800, Cambridge. A film will be shown entitled "The Ball's Eye War", an analysis of how precision-guided weapons have altered conventional warfare and defense spending. Discussion will follow. Public is welcome. For further information contact Steve Berlin, x3-6018.

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Discount Furniture Discount Bedding
MATTRESS SALE



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10% Additional Discount Off our already low prices with student or faculty I.D. — Good thru Sept. 30th.

Desks, kitchen sets, bookcases, lamps, room dividers, living room sets, sofas, recliners etc.

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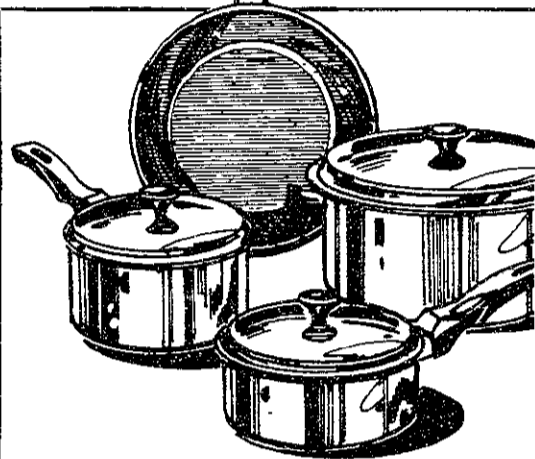
405 Washington St.
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SAVE \$10 MIRRO 7PC. COOKWARE SET

The Debut Collection of polished aluminum and Dupont's non-stick Silverstone lining. Includes 1 & 1½ Qt. Covered Saucepans, 4 Qt. Covered Dutch Oven and 9" Sauce Pan with interchangeable cover.

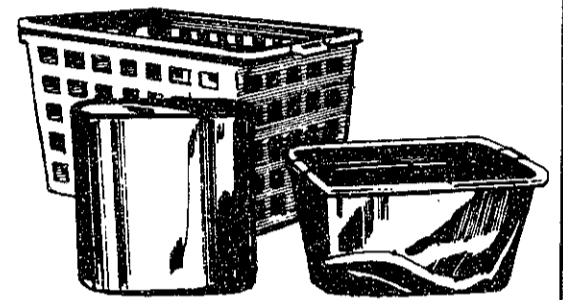
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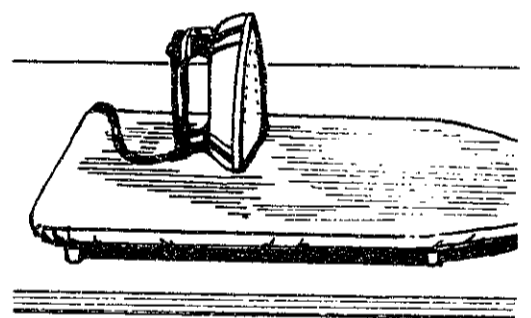
Purchase Wearever's 10" Chef style aluminum frypan with Depont's nonstick Silverstone lining and receive the 8" frypan (6.99 value) at no additional charge.

Now 14.99



SAVE 15% INGRID HOUSEHOLD PLASTICS

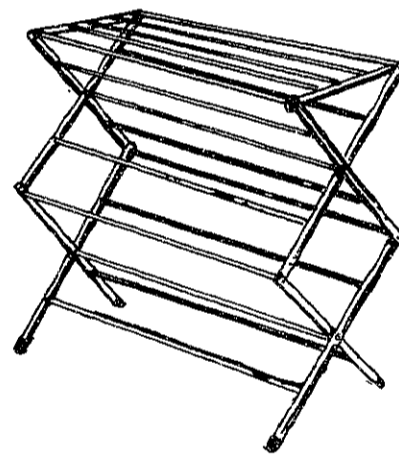
An assortment of colorful kitchen accessories keep small areas organized and everything within easy reach. Bright, color-coordinated trays, bins, baskets and more.



SAVE \$3 TABLE-TOP IRONING BOARD

A space-saving, collapsible board with scorch-proof Teflon fabric cover and foam cushion pad. 12"W x 32"L x 2½"H. Ideal for apartments, dorms, campers, and more.

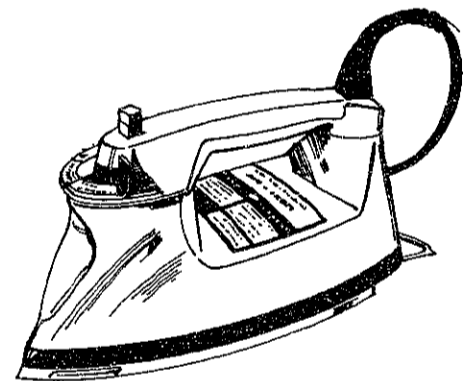
Orig. 8.99
 Now 5.99



SAVE \$5 ALLENTOWN DRY RACK

A sturdy aluminum and expandable rack for drying delicate hand-washed clothes, sweaters and fine lingerie. 17 dowel construction with cap-stand feet. No assembly required.

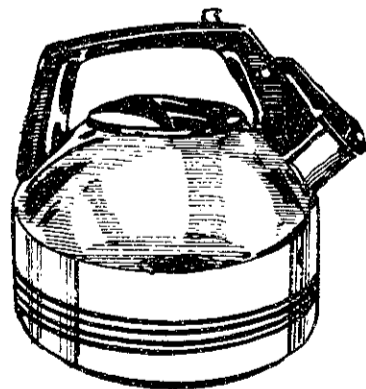
Reg. 19.99
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GE LIGHT 'N EASY IRON

A compact steam and dry iron with convenient water window, 4 heat settings. Break-resistant shell, "Durever" cord set and polished aluminum sole plate with 27 steam vents.

Reg. 17.99
 Now 14.99



SAVE \$7 STRIPED TEA KETTLES

Trigger-style teakettle with removable lid. Porcelain enamel on steel in assorted bright colors including yellow, red, blue, white and biscuit.

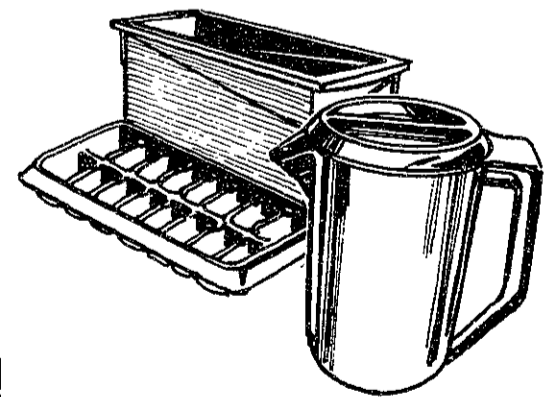
Reg. 19.99
 Now 12.99



SAVE \$2 BERG BINS

Colorful plastic bins to stack one on top of another. A kitchen basic to keep accessories organized and neat. Useful throughout the house and save precious storage space.

Reg. 3/11.97
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SAVE 15% RUBBERMAID ACCESSORIES

Colorful plastic kitchen accessories including pitchers, ice cube trays, freezer containers and much more. Rubbermaid makes the most of your time and space.

Available at M.I.T. Student Center. Tech Coop open Mon.-Sat. 9:15 to 5:30. Coop Charge, Mastercard, Visa and American Express welcome. Call toll free; 1-800-792-5170 within Mass. 1-800-343-5570 outside Mass.

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ARTS ARTS ARTS ARTS

Chicago, Chicago, it's your kind of musical

Chicago, Musical Theatre Guild, further performances on September 7, 8, 9, 13, 14, and 15 at 8 pm; free performance for freshmen at 3:30 pm September 9; admission \$3 MIT students, \$6 others.

An animated matron emerged from the auditorium and exclaimed to her consort, "It's terrific." A lucky scoop for this reporter; a happy result for Chicago, an act for which the media run the show. Chicago, brilliantly conceived, slickly conducted, wonderfully entertaining, was terrific.



We're in 1920s Chicago and, if you're a lady inclined to do away with your lover, you can save your neck by hiring \$5000 lawyer Billy Flynn; there are plenty of publicly-defended criminals (or innocents) to hang instead.

The two most intriguing murderesses to hit the jailhouse are Velma Kelly and Roxie Hart. Acted by Karen Ann Kovacs and Mary Athanis, they could not fail to charm. Velma initially comes across as quite a sleazebag, but as the plot develops, Roxie, more of a cool calculator, turns out to be nastier.

Ruth Ferrara made a wickedly funny prison "matron." Her Act I number *When You're Good to Mama* was hilarious. Hunyak (depicted vividly by Rina Cerulli

'86) unfortunately cannot be good to Mama, and we soon realize that their relationship will be short.

Students planning to take classes from Professor of Chemical Engineering Mark Kramer had better be ready with the correct bribe: as Billy Flynn the lawyer he's effective in court for those who can pay the price; Kramer provided an absorbing character study of someone whom the system does not allow to be quite human.

Every inch of Jeffrey Moore '85's poise told us that Amos Hart's a wimp. A shame the spritely Roxie didn't do him in instead.

It's the orchestra that binds a musical together, and the band for *Chicago* was on top form. While the audience focused on the action, the orchestra provided much of the suspense, and stylishly too. While many members of the cast were not MIT-related, the orchestra was made up largely of MIT students (or ex-students) and proved that we have an enormous amount of talent on our doorstep.

Daniel Rosenblatt's direction was magnificent: to tell of the many clever touches would only be to spoil your fun. The way to find out is to go and enjoy this inspired show, probably the best the Musical Theatre Guild has ever done.

Jonathan Richmond

Useful formulae for freshman quiz

See page 9 for questions

$$h/p = c/v = hc/E = \lambda$$

$$v = v_0/\sqrt{(1-\beta^2)}$$

$$\partial^2 F/\partial x^2 = -(8\pi^2 M)/h^2 \times [E - V(x)]F$$

$$\tan[\sqrt{(2mE)/\hbar} \times L/2] = \sqrt{[(V_0 - E)/E]}$$

$$T = \exp\{-2 \int_{R_1}^{R_2} \sqrt{(2m[V(R) - E])} / \hbar dR\}$$

$$\partial^2 \Psi(z,t)/\partial t^2 = T_0/P_0 \times \partial^2 \Psi(z,t)/\partial z^2$$

$$c^2 k^2/\omega^2 = 1 + (4\pi Nq^2)/M \times 1/(\omega_0^2 - \omega^2)$$

$$\int_0^{\pi/2} (\sin x)(\log \sin x) dx = \log 2 - 1$$

$$\int_0^{\infty} dx/(1+x)\sqrt{x} = \pi$$

Boltzmann constant: $k = 1.3805 \times 10^{-16}$ erg/°K

Wien Displacement Law constant: $C = 0.289780$ cm·deg

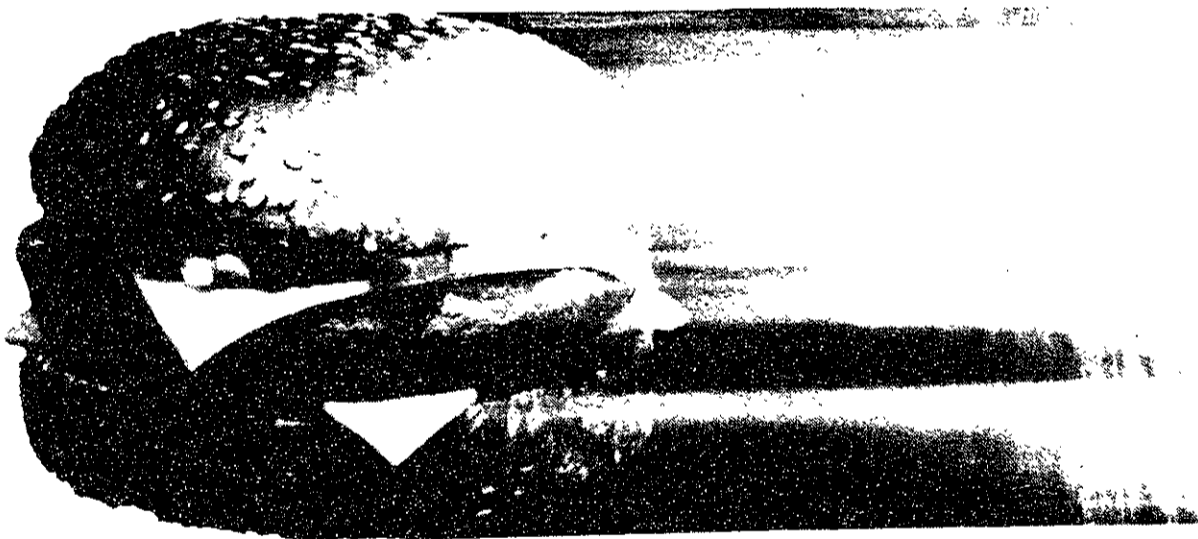
Wavelength associated with one electron volt: 12379.7×10^{-6} cm

Radiation pressure constant: $a = 7.5641 \times 10^{-15}$ erg/(cm³·deg⁴)

Length of tropical year: 365 days, 6 hours, 9 minutes, 9.54 seconds

Solar luminosity: $L = 3.90 \times 10^{33}$ erg/sec

Units of animal fur insulation value: m²°C/W



IT'S A GOOD TIME
FOR THE GREAT TASTE.



aerodynamically unsound

There are a lot of things that our hamburgers just aren't good for, we realize that. For instance, we know that our Quarter Pounder® will never break the land speed record at Bonneville. We can assure you that

Weight before cooking 4 oz.

our cheeseburger just won't make comfortable, therapeutic footwear; and we're quite certain that the Big Mac™, if integrated with your component stereo system will not enhance the total sound quality.

So what are we trying to say? That our hamburgers are good for one thing, and that's you.

Buy One Quarter Pounder® or Quarter Pounder® with Cheese Sandwich (weight before cooking 4 oz., 113.4 grams), Get Another of the Same Sandwich FREE!

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463 Massachusetts Ave
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(5pm till closing)



Offer expires Oct 16, 1984

Limit one coupon per visit. Mr. Operator: Return to above address for reimbursement. Redemption value 1/20¢. © McDonald's Corporation 1982.

notices

Listings

Saturday, Sept. 15

A Fitness Fair will be held at the Cambridge YWCA, 7 Temple St., in Central Sq. Included are lecture/demonstrations of *Dance for Aerobics* and a fitness test to find out how you rate physically with other people of same age and sex across the country. \$3/members, \$3.50/others. For more information, call 491-6050.

Monday, Sept. 17

Stepfamily Couples Group, a support group focusing on the major issues facing remarried couples, will meet from 8 to 9:30 pm at the Riverside Family Institute, 259 Walnut Street, Room 14, Newtonville. The group will meet weekly for twelve weeks. For more information, contact Pat Williams at 964-6933.

Life in stepfamilies is the topic of a free lecture to be given by Leigh Gray, a family therapist at Riverside Family Counseling. Ms. Gray will discuss the three stages that stepfamilies typically experience as they grow toward mutual affection and support. The lecture will be held at 8 pm at the Riverside Family Institute, 259 Walnut Street, Room 14, Newtonville.

Bilingual Rape Prevention. Taught in Spanish and English. Non-intimidating approach to self-defense. Classes held at the Bodyworks Gym for women, 53 River St., Cambridge. Sponsored by the Cambridge YWCA. Classes will be held from 6 to 8 pm for 4 consecutive Mondays. Cost: \$30. For more information, call 491-6050.

Thursday, Sept. 20

A seminar on financial planning and management will be held at the Cambridge YWCA, 7 Temple St., from 7 to 8:30 pm. Includes determining investment objectives, tax saving strategies, and planning for retirement. Cost: \$5. For more information, call 491-6050.

Saturday, Sept. 22

"Sexual Harassment: What Women Need to Know", a workshop dealing with myths and stereotypes of sexual harassment in the workplace, will be held at the Cambridge YWCA, 7 Temple St., from 10 am to 2 pm. Cost: \$15. For more information, call 491-6050.

Monday, Sept. 24

"The 3 E's: Eating, Emotions and Exercise", a lecture on how emotional conflicts with food disrupt physical and emotional well being, will be held at the Cambridge YWCA, 7 Temple St., at 7 pm. \$4/members, \$5/others. For more information, call 491-6050.

Monday, Oct. 1

Beth Israel Hospital's Back Pain School teaches back pain sufferers how to manage their pain. Participants learn simple techniques that soothe discomfort. New sessions begin. For more information, call 735-3940.

Tuesday, Oct. 9

Beth Israel Hospital's Mind-Body Group Program can teach you to manage your stress by using the relaxation response, awareness training, and exercise. New

groups begin. For more information, call 735-3154.

Wednesday, Oct. 10

Beth Israel Hospital's Quit Smoking Program helps participants master the art of controlling the urge through hypnosis, relaxation techniques, and the use of new Nicorette gum. New groups begin. For more information, call 735-4735.

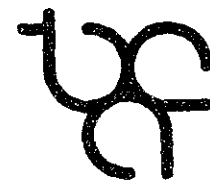
Monday, Oct. 22

Beth Israel Hospital is offering a new therapy group for women who have been sexually assaulted. The session will begin at 6 pm and will meet weekly. For more information call 735-4738.

Announcements

The National Endowment for the Humanities has announced a unique grants program for individuals under 21 to spend a summer carrying out their own non-credit humanities research projects. The **Younger Scholars Program** will award up to 100 grants nationally. Award recipients will be expected to work full-time for nine weeks during the summer of 1985, researching and writing a humanities paper under the close supervision of a humanities scholar. The application deadline is Sept. 15, 1984. For guidelines, write to Younger Scholars Guidelines CN, Rm. 426, The National Endowment for the Humanities, Washington, D.C. 20506

BLOOD DRIVE



American Red Cross

Thurs. 9/6, Fri. 9/11:30 to 5:30
no appointment

Sala de Puerto Rico Student Center

TCA x3-791

This space donated by The Tech

Back-To-School

ESSENTIALS AT SAVINGS



SAVE 30 TO 53%
DORM SHEETS BY MARTEX

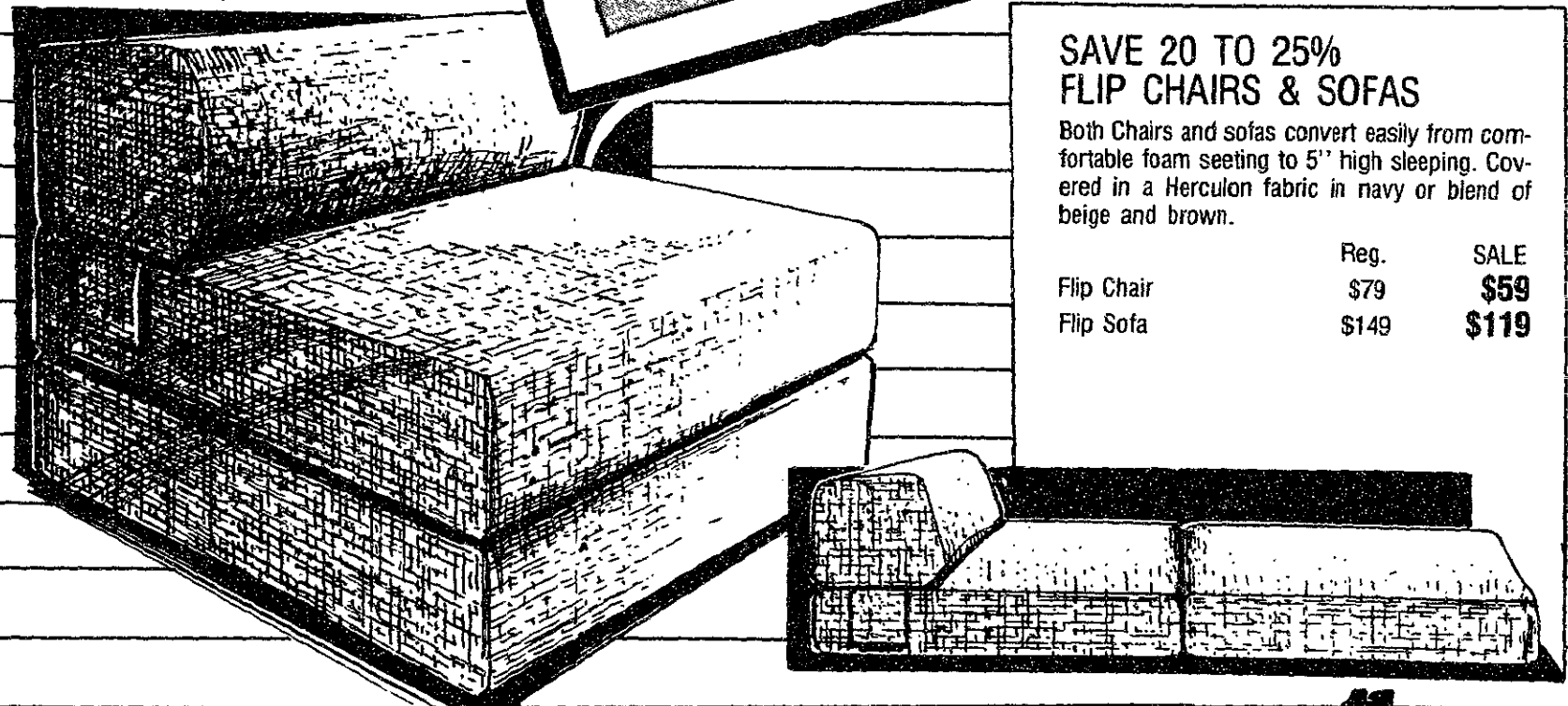
A no-iron, easy-care percale of 50% cotton/50% polyester. Martex "Houselights" in assorted solid colors plus white.

	If. Perf.	SALE
Twin Flat	\$11	6.99
Twin Fitted X-tra Long	\$15	6.99
Pr. Std. Cases	\$10	6.99

SAVE 37 to 50%
REVERSIBLE COMFORTERS

Big, plump comforters with a 50/50 cotton poly blend cover and 100% polyester filling. In navy/Blue, Brown/Bone, Plum/Rose, Toast/Bone, and Navy/Red.

	Comp. Value	SALE
Twin	\$40	24.99
Full	\$60	32.99
Queen	\$80	39.99



SAVE 20 TO 25%
FLIP CHAIRS & SOFAS

Both Chairs and sofas convert easily from comfortable foam seating to 5" high sleeping. Covered in a Herculon fabric in navy or blend of beige and brown.

	Reg.	SALE
Flip Chair	\$79	\$59
Flip Sofa	\$149	\$119

Available at Harvard Square, M.I.T. Student Center and Children's Medical Center. Harvard Square store open Mon.-Sat. 9:20 to 5:45, Thurs. till 8:30 pm. Tech Coop open Mon.-Sat. 9:15 to 5:30. Coop Charge, Mastercard, Visa and American Express welcome.



The traditional Freshman Quiz is now a contest for new students

Deadline for entries is Thursday at noon. See page 7 for useful formulae.

Contest rules

Except for the addition of some new questions, this is the text of the freshman quiz exactly as it was last given on Tuesday morning, September 1, 1981, at 10 am in room 26-100. We have included the test instructions for reasons of historical interest; bear in mind that they do not necessarily apply to the contest. Contest rules are as follows:

- Only new undergraduates (that is, freshmen and new transfer students) may enter this contest.
- To enter, write down answers for as many of the questions as you can and submit them with your name to The Tech office in W20-483 (there's a mailbox on the door. Neatness and staples would be appreciated).
- You may use answers learned from reference works and other students, except members of The Tech staff. Each entry must be from one individual; group efforts cannot be considered.
- Correctness and creativity will be rewarded. Specifically, the authors of the two entries judged to have the most correct answers will receive \$25 Coop gift certificates; and the authors of the two entries judged most creative will receive certificates for copies of *Technique* 1985, this year's MIT yearbook, which will appear in the spring.
- Entries will be judged by members of The Tech staff. All decisions will be final. Contest entries become the property of The Tech and cannot be returned.
- Answers, and an announcement of the winners, will appear in Friday's Tech.

Original Rules

- This is a closed book examination. No slide rules or electronic calculators will be allowed. A sheet of formulae — the last page of the test — has been provided. The test will last approximately one hour.
- Smoking (tobacco or otherwise) is not allowed during the examination.
- Write all answers in the answer booklet provided. It is not necessary to begin each answer on a new page. Extra answer booklets will not be available. Do not write on the test itself. Do not separate the pages of the test.
- Answers should be numbered and in proper order. For multiple-choice questions, write only the letter corresponding to the correct answer. (If more than one answer on such a question is correct, write all the letters corresponding to each correct answer.)
- If you are not certain of the answer to any particular question, answer to the best of your knowledge. Partial credit will not be allowed. Illegible answers will receive no credit.
- Do not open this test booklet until you are instructed to do so by the proctor in charge.
- Passing grades on this quiz will be determined by the Freshman Rules Committee. Students may obtain their test scores any time after Wednesday noon from the Freshman Rules Committee Office, (Room 36-009, x3-4665).
- Any student found cheating on this quiz will be expelled from the examination room, and will receive the grade of "GN" on his or her Freshman Rules Committee record.
- This exam is intended to be instructive. Consequently, it is sometimes the case that part of the problem is to figure out what the problem is. (In such cases, the proctors will not be able to assist you in interpreting the question.)
- Good luck!!

The Freshman Quiz

"The true test of intelligence is not how much we know how to do, but how we behave when we don't know what to do."
— John Holt

1. a) Write your MIT ID number.
b) Write your term address.
c) Write your prospective major.

High School Preparation

2. Solve:
 - a) $\int 3x^2 dx$
 - b) $\int x^2 \sin(x) dx$
 - c) $\int_0^{\infty} dx / (1+x)^2$
3. Give the next number in the sequence:
 - a) 11, 13, 17, 25, 32, 37, 47, 58, 71, ...
 - b) 7, 3, 10, 4, ...
4. You are given six buckets in a row. The first three are filled with water and the second three are empty. Moving only one bucket, how do you make them alternate (filled, empty, filled, empty, filled, empty)?
5. a) Draw all the structural isomers of lysergic acid diethylamide.
b) Choose the most stable isomers from those you drew for part a). Explain your reasoning.
c) Given methane, ammonia, and water, describe the steps necessary for the synthesis of lysergic acid diethylamide. Keep in mind ways to minimize unwanted isomers.
6. a) Draw a flowchart describing the generation of prime numbers. Recursive algorithms will be given extra credit.
b) Implement the above in the language of your choice. Be sure to specify the language.
7. A rope over the top of a fence has the same length on each side. It weighs 1/2 lb. per ft. On one end hangs a monkey holding a banana, on the other a weight equal to the weight of the monkey. The banana weighs 2 oz. per inch. This rope is as long as the age of the monkey, and the weight of the monkey (in ounces) is as much as the age of the monkey's mother. The combined ages of monkey and mother are 30 years. 1/2 the weight of the monkey, plus the weight of the banana, is 1/4 as much as the weight of the weight and the weight of the rope. The monkey's mother is 1/2 as old as the monkey will be when it is 3 times as old its mother will be when she is 4 times as old as the monkey was when it was twice as old as its mother was when it was 1/2 as old as the monkey was when it was as old as its mother was when she was 3 times as old as the monkey was when it was 1/4 as old as it is now. How long is the banana?
8. a) Find the integer solutions to the equation $(A^4 + B^4 + C^4) / (A + B + C) = 39$.
b) Translate the following into a limerick:
 - i) $(12 + 144 + 20 + 3\sqrt{4}) / 7 + 5 \times 11 = 9^2 + 30$
 - ii) $\int_0^{1/2} z^2 dz (\cos 3\pi/9) = \ln 1/e$

Computer Science Questions

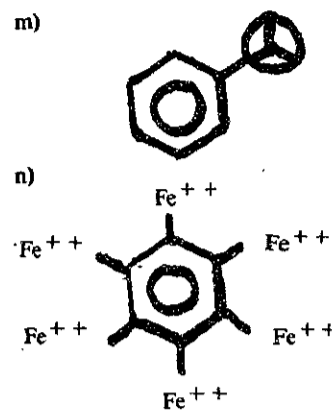
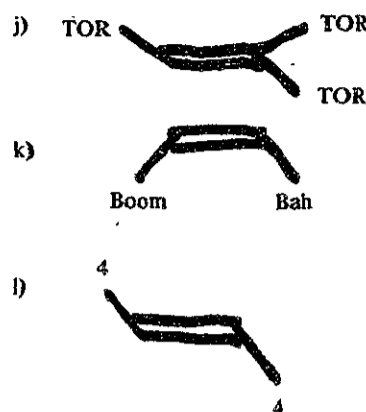
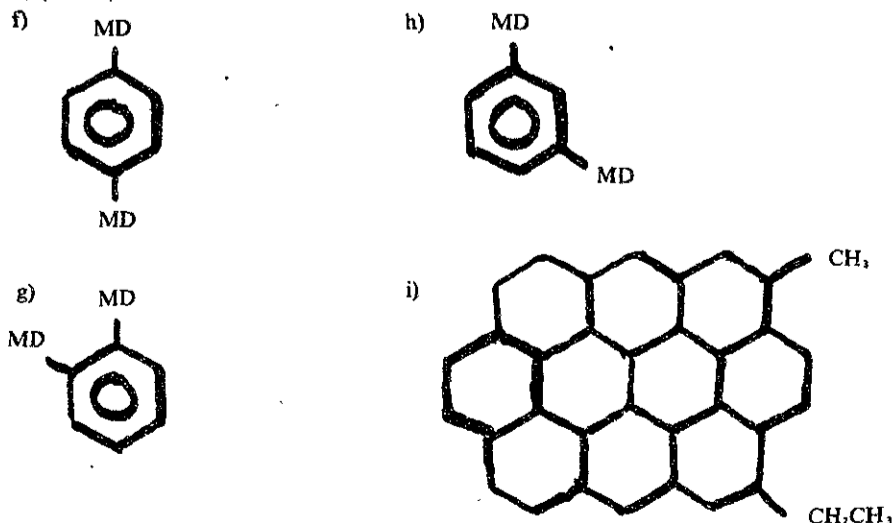
9. Give the byte size for the following machines:
 - a) VAX 11/780
 - b) IBM 370/168
 - c) Big MAC
10. a) What is EBCDIC?
b) Who uses it?
c) Why?
11. a) Describe an implementation of the Rivest public key encryption system.
b) Would you do it in hardware or software?
c) Would the NSA approve?

Physics questions

12. Describe a world in which all forces are repulsive.
13. One hundred bicycles are simultaneously scattered around MIT. In three hours, thirty-six remain. What is the half life of an unlocked bicycle? Speculate on the ultimate disposition of these bicycles given the number of ads for "used" bicycles.
14. For the purposes of this question, you may assume that $c = 10\text{kph}$ (Remember that c is the velocity of light in a vacuum, and that $h = 100\text{g}\cdot\text{m}^2/\text{sec}$ (h is Planck's constant). Describe the effects on everyday life.
 - a) Where would you be now?
 - b) How probable are you?
 - c) How long do you expect to spend at MIT?

Chemistry questions

15. Give the names of the following compounds:
 - a) $\text{WaNACrKrWaNaCrKrWaNaCrKrWaNaCrKrWaNaCrKrWaNaCrKr}$
 - b) $\text{Be} + \text{Ar}$
 - c) BaAuHiJKLMnO
 - d) HIO_3Ag
 - e) $(\text{BaNa}_2)_n$



16. Match the elements with the appropriate department:

- | | |
|--------------------------------------|---------------|
| A) Chemical Engineering | a) aluminum |
| B) Chemistry | b) boron |
| C) Earth & Planetary Sciences | c) carbon |
| D) EE & CS | d) chromium |
| E) Interdisciplinary Studies | e) adamantium |
| F) Materials Science and Engineering | f) lithium |
| G) Meteorology | g) magnesium |
| H) Philosophy and Linguistics | h) neon |
| I) Ocean Engineering | i) potassium |
| J) Sociology | j) sodium |
| K) Urban Studies and Planning | k) manganese |
17. Where does mercury come from?
a) Ford Motor Company
b) Mount Olympus
c) Laboratory Supplies
d) H.G. Wells

General questions about Boston

18. a) What happened to Beacon Hill?
b) What happened to Bunker Hill?
c) What happened to Benny Hill?
19. Where does summer turn into winter and milk into water?
20. What is the only street in America that crosses itself and why?

MIT questions

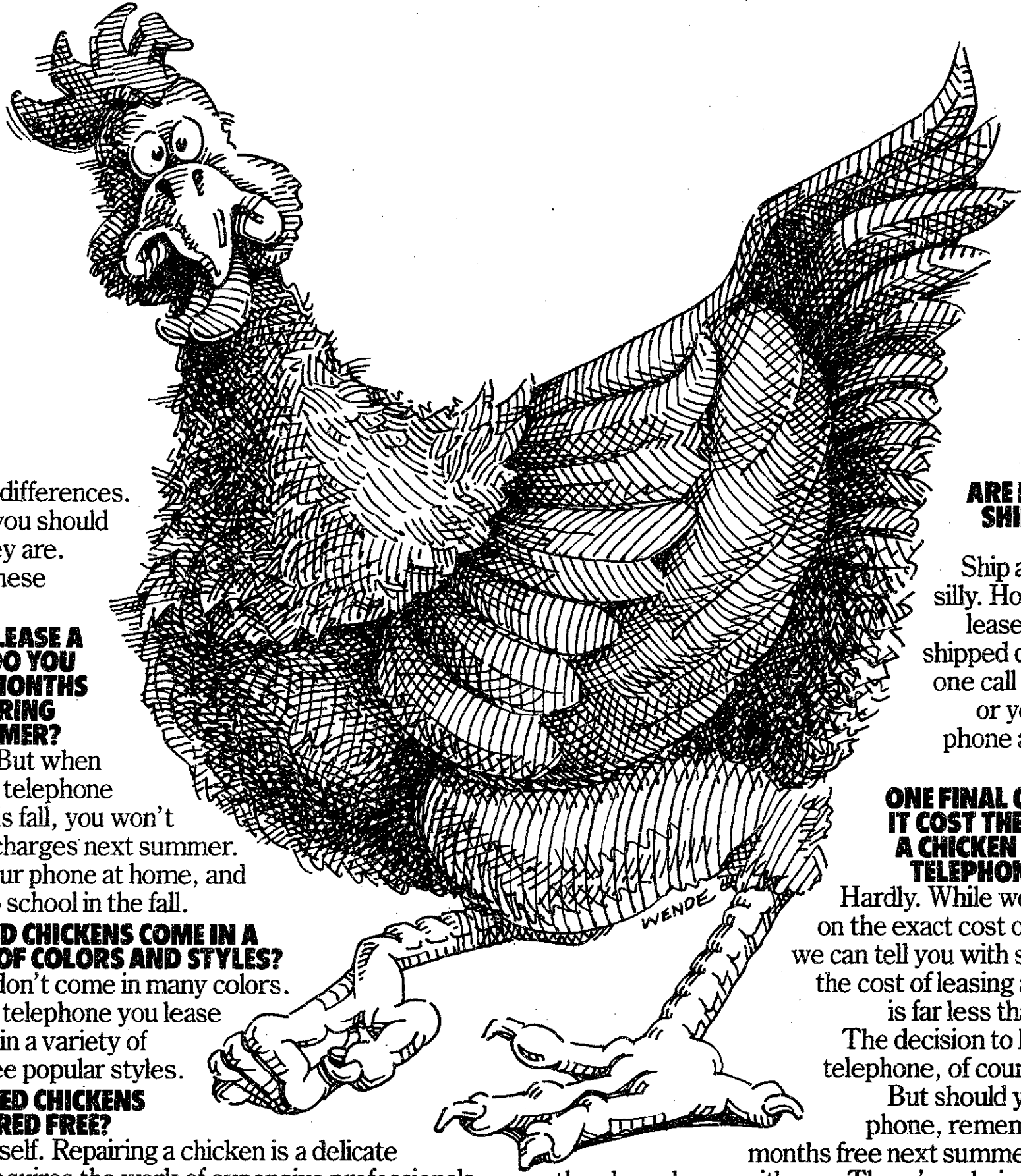
21. Name the two buildings in the United States, in order, that have the most (longest) connecting highways.
22. What is the official Alma Mater of MIT?
23. What was the first publication in the Library of Congress with reverse pagination?
24. What two colors have nothing in common?
25. Which buildings at MIT have six-digit room numbers?
26. Which MIT departments do not give undergraduate degrees?
27. Why is the "Harvard Bridge" called the "Harvard Bridge"?
28. By what name was MIT formerly known?
29. What happens when you dial 100 on an MIT telephone?
30. What happens Registration Day night?
31. Where are the Bronze Bunny, the Red Staple, the Great Sail, The Necco Wafer, and the Big Blue Scrap Heap? What are their official names?
32. Where is Ground Zero?
33. From what spot at the Institute can you be seen by an MIT president and two former presidents simultaneously?
34. a) What is Sport Death?
b) What does Sherry Turkle think Sport Death is?
35. a) What color is the Green Building?
b) When does it talk?
c) What does it say?
37. a) What is the latest movie in which you can see a Brass Rat?
b) What is the latest clothing catalog in which you can see a Brass Rat?
38. What does 232-2120 have to do with Dining Service?
39. Where can you see toads?
40. In what *Star Trek* episode can the MIT campus be seen?
41. Why is it significant that cows will go upstairs but not down?
42. According to Karl Taylor Compton, what does every MIT student wear under his raincoat?
43. a) What is the Institute Screw? Give three examples from your recent past experience.
b) What is the Big Screw?
c) Who won it in last year and why?
d) What is UMOG?
e) Who won it in 1979?
f) What is Homecoming Queen?
g) Who was Homecoming Queen in 1979?
44. What is the major cause of death among MIT presidents?
45. Define the following units:
 - a) the Bruno
 - b) the Smoot
 - c) the Matska
 - d) the Sklar
46. a) In what core curriculum courses were lectures given in French?
b) What happened to the lecturer?
47. Who is buried in which MIT dormitory?
48. What became of Instrumentation Lab?
49. According to *Seventeen* magazine, what is proper dress for an MIT fraternity brother?
50. What do you find in Room 7-414?
51. Match the name of the building with its number:

a) Solar House	A) W7
b) Joyce Chen Small Living Place	B) W20
c) ORK	C) W20-415
d) Moose Crossing	D) W70
e) Stratton House	E) W71
f) Open House	F) W74
g) Next House	G) NW61
52. How many language houses are there at MIT? Name them.
53. Compose, then stand up and sing a new verse for the MIT drinking song.
54. Identify these abbreviations, and give all possible meanings:

a) MRS	b) SCREW	c) NRSA	d) NGL
e) GFI	f) SEG	g) TDM	h) TFM
i) IHTFP	j) RTFM	k) FUBAR	
55. What was the name of Avery Allen Ashdown's dinner club and why?
56. a) What was Incomm?
b) What was the GA?
57. What was the honorary society of MIT called?
58. What was the women's honorary society called?
59. What was the East Campus honorary society called?
60. What was the first dormitory to secede from Dormcon?
61. Who was Maurice B. Hendon '83 and why is he famous?
62. What laboratory equipment immortalizes dead rock stars?
63. What major publications have been edited or published by MIT graduates?
64. What do smoking and bicycles have in common?
65. What MIT graduates have appeared in *Doonesbury* and why?
66. What is 36-099?
 - a) mens' room
 - b) broom closet
 - c) Department of Alchemy
 - d) Dean's Office
 - e) Freshman Rules Committee Office
67. Define "hack." Be maximally specific. Give 66 examples from your recent past experience.
68. Appointment to the Freshman Rules Committee is by invitation only. Indicate whether you wish to be considered for appointment next year, and if so, briefly explain why you feel you should be considered.

- STOP! If time permits, you may check over your answers. Please be sure to hand in your booklet at the conclusion of the examination. You may keep this copy of the test.
- Transfers to other institutions may be arranged through the Dean for Student Affairs or the Committee on Academic Performance.
- For the truly desperate, airline schedules and a complete listing of tariffs are available for inspection: TCA, W20-450.

WHAT EVERY STUDENT SHOULD KNOW ABOUT THE DIFFERENCES BETWEEN LEASING A TELEPHONE AND LEASING A CHICKEN.



Yes, there are differences. And we think you should know what they are. Ask yourself these questions.

WHEN YOU LEASE A CHICKEN, DO YOU GET THREE MONTHS FREE DURING THE SUMMER?

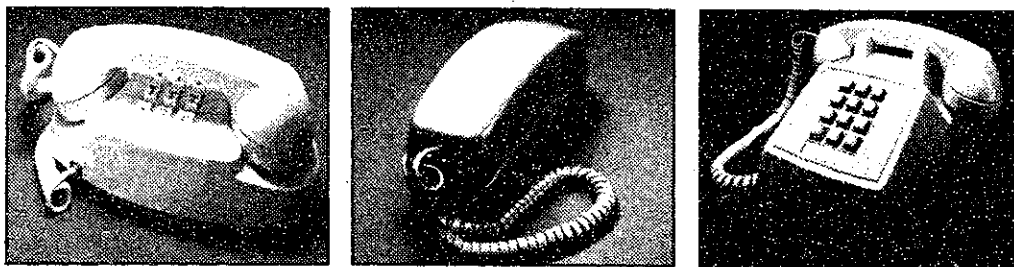
Probably not. But when you lease your telephone from AT&T this fall, you won't pay any lease charges next summer. You can use your phone at home, and bring it back to school in the fall.

DO LEASED CHICKENS COME IN A SELECTION OF COLORS AND STYLES?

No. Chickens don't come in many colors. But the AT&T telephone you lease this fall comes in a variety of colors and three popular styles.

ARE LEASED CHICKENS REPAIRED FREE?

Don't kid yourself. Repairing a chicken is a delicate process that requires the work of expensive professionals. However, in the off chance your AT&T leased telephone



needs repairs, we'll fix it absolutely free when you visit any of our AT&T Phone Centers.

ARE LEASED CHICKENS SHIPPED DIRECTLY TO YOU?

Ship a chicken? Don't be silly. However, your AT&T leased telephone will be shipped directly to you after one call to 1-800-555-8111, or you can pick up your phone at any of our AT&T Phone Centers.

ONE FINAL QUESTION: DOES IT COST THE SAME TO LEASE A CHICKEN AS TO LEASE A TELEPHONE THIS FALL?

Hardly. While we have no hard data on the exact cost of leasing a chicken, we can tell you with some certainty that the cost of leasing a telephone this fall is far less than you might think.

The decision to lease a chicken or a telephone, of course, rests with you.

But should you opt for the telephone, remember: you get three months free next summer, and you can take the phone home with you. There's a choice of colors and styles, free repair, and we'll ship you the phone or you can pick it up at any of our AT&T Phone Centers.

It doesn't cost much either. And that's something to crow about.

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Cambridge
45 Prospect Street

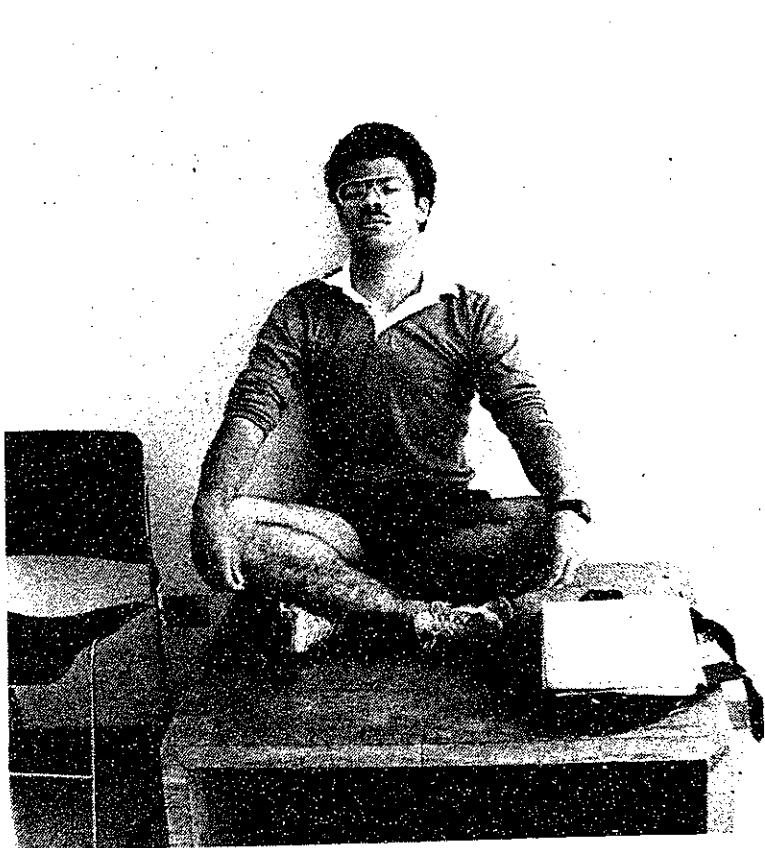
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photo essay

Interphase '84



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Thursday, Sept. 6, 7-11 pm: A Party! Yeah!! Toscanini's Ice Cream (lots of jimmies and other fun stuff). Come meet the staff and find out what *The Tech* is about.

Sunday, Sept. 9, 4 pm: Open staff meeting. All departments will have organizational meetings (news, opinion, production, sports, arts, business, photography, features and a whole lot more). Free pizza after the meeting.

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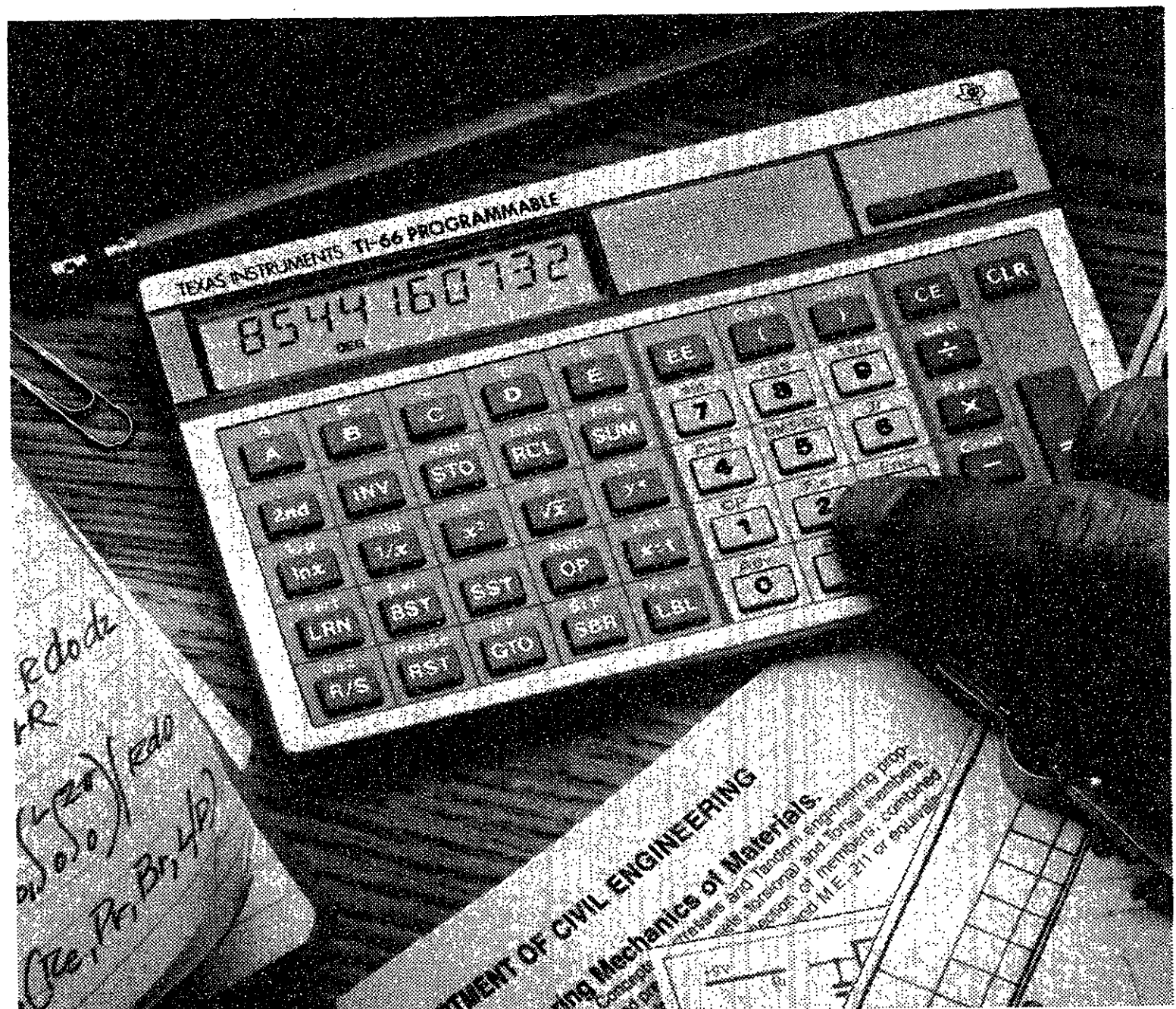
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