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From the News Office Massachusetts Institute of Technology Cambridge, Massachusetts 02139 Telephone: 617) 253-2701 July 24, 1973

FOR IMMEDIATE RELEASE

M.I.T. WOMEN STUDENTS ISSUE RECRUITING BOOKLET

Women at M.I.T. want more women at M.I.T., so the women students have collaborated on a 32-page recruiting booklet to be mailed to some 10,000 high school seniors.

The just-published booklet is the latest in a series of steps taken by the Massachusetts Institute of Technology admissions officers and women students to encourage more women to attend M.I.T. The booklet is also one of several commemorations of the hundredth anniversary of the 1873 graduation of the first woman from M.I.T., Ellen Swallow Richards.

The number of women attending M.I.T. has doubled in the past five years, largely because of the Institute's increased ability to accommodate them residentially. Approximately 500 women will be enrolled as undergraduates in the 1973-74 academic year.

Part of the increase in numbers, the authors said, is because "The appeal of an education in science and technology is greater now. Active participation in our world now relies heavily on at least understanding the forces of science and technology."

"We can do more than understand them," they wrote, "we can develop them, find new uses for them, and direct them toward solving some of the problems of our times."

The booklet was initiated by the M.I.T. Association for Women Students and produced with the help of the Office of the Dean for Student Affairs. It is written in a conversational tone addressing general questions about life at M.I.T. for a woman. Many pictures, showing women members of the faculty and staff as well as scenes of student life, illustrate the presentation.

The booklet will be distributed this summer to 10,000 girls who have completed the Preliminary Scholastic Aptitude Tests with scores of 650 and above in mathematics and 500 and above in the verbal test. The recipients were selected through the Student Search Service of the Educational Testing Service.

Also to receive the booklet are some 1,000 M.I.T. educational counselors throughout the world. Educational counselors are M.I.T. alumni and alumnae who are able to discuss Institute programs with high school students in their local areas.

--END--

> MPR For your information Free structures



OFFICE OF THE PRESIDENT

October 30, 1973

Shelley Bernstein '74 Carol Dees '74 Joan Gildin '73 Pam Jorgensen '75 Margo Levine '75 Missy Mink '74 Beverly Ross '75 Sandra Yulke '74 Jacqueline Casey Anne Ellison Joan Friebely Joan Gale Kathryn Lombardi

I am writing this collective note to express my personal appreciation to each of you for the effort you put into the production of the booklet on women at M.I.T. As I am sure you know, this publication has been one of our most effective means of communicating with young women about M.I.T.

In the past few months, all of us have been involved in a major effort to take steps that will bring us to the point where nondiscrimination will be a working practice as well as a formal policy of the Institute. We are gratified by the efforts of M.I.T. people on the affirmative action front, but it is true that we have yet to see the results of our plans and actions.

In this case, I believe that the number of inquiries that we have received as a result of the mailing of the booklet is a tangible measure of accomplishment. We have talked about the success of this effort at meetings and public occasions. I just wanted each of you to have my personal thanks on behalf of M.I.T. for your contributions in making it possible.

Sincerely,

Jerome B. Wiesner

JBW:nkl

MORNING, OCTOBER 13, 1976

ORNING, OCTOBER 13, 1976 Her message is one of hope

By KATIE SHERROD Star-Telegram Writer Dr. Mary Rowe thinks that while it

may be true that the hand that rocks the cradle rules the world, we'd all be better off if the hand that rules the world had rocked a cradle once in a while.

Dr. Rowe, assistant to the president of the Massachusetts Institute of Technology, and chancellor for women and work, was in Fort Worth Friday to address the Junior League of Fort Worth and to speak at TCU.

Her topic for the Junior League was "Men and Women and Hope," and her optimistic message was that a healthier world will emerge from all the changes men and women currently are experiencing

"Hope seems to have gone out of fashion in the northeast and people don't



-Star-Telegram Photo DR. MARY ROWE. . . expecting a healthier world

seem to have anything cheerful to say about men and women," she said.

"We look around and see a lot of horrible wrongs - old people who cannot manage on their incomes, too many people out of work, teen-agers feeling useless and children being abused.

"HOW DID we get where we are in 1976? How did we move from 1776, when men and women both had work to do that they knew was valuable, even essential to survival?" she asked.

Dr. Rowe, who is an economist, said pioneer women and men knew of their own value, that the work women did was always considered "serious" work.

"The other day I met a friend of mine and I asked her "Are you working?' And she, who has six children, said she was entertaining for her husband in his work, doing Bicentennial projects, working in the PTA and had moved six times, but "No, I'm not working.

"How did we get to a place where this socially valuable, productive work is considered useless? When men and women shared the work of survival, they shared a common bond, a common joy. We've lost that to a large degree, by sex stereotyping.

She said America needs to move toward a time when work should be picked by people on the basis of their skills and desires, not on gender. She said work should "not damage or degrade the worker, should use all a worker's interests and skills and give the worker a chance to develop new ones. And it should enhance all other aspects of life."

"IN 1776 MANY jobs met those criteria, but in 1976, while more are meeting them, too many are not.

"Men are beginning to ask why should they remain in the rat race and never get to love their children, they are asking why top level jobs have to be so full of pain. They are asking for a chance to love and care for others," she said.

Women are asking, she said, why they must stay home when they want to try their wings. And when they try their wings, they are asking why they must be restricted to stereotypical jobs, such as clerical work. They are worrying she said, on whether it is possible to be a paid worker and a good mother.

And they are asking why, if they work at a paid job, their work week must be at least 10 hours longer than their husbands, what with the care of home and family.

Dr. Rowe said she was very aware that her two young daughters had one chance in two of being the chief wage earner, the same chance as her son.

'Can I afford to let them grow up without training for a job?" she asked.

SHE SAID WOMEN'S liberation and

men's liberation have confused and angered some people who find we can't go back, but find the present full of problems.

She envisions a future in which women and men will be free of sex stereotyping. in which young married people may share the work load and the house work and child rearing by working what she called "three-quarter time." The idea is for a couple to work a quarter of their time at work, a quarter with child and home and a quarter with school.

She said such a system would make family finances more secure, both the woman and man would have more variety in their work and they would share a common purpose.

She said recent polls show that men who were interested in egaliterian relationships reported happier marriages.

She urged the women present to be very supportive of men who were trying to be more nurturing and caring.

"If you find a caring man, support him. Stick up for him when he gets teased at work for taking time off to take a child to the doctor or for cooking.

"GIVE MEN THE same options women are asking for Texas women ask if they must put their husband and family first, and then their work. And yes they should, but so should the men.

'And we don't let them do that." She said she thought our world government might be better if world leaders had been reared to be caring and nurturing as women are.

If these powerful men had ever held a child, or changed a diaper or cared for a pet, or even a plant, perhaps we would have less ruthless governments.

There is no doubt that women have gentler childhoods than men do, and whether or not a woman has children, she has still been reared to be nurturing.

"We must let men have that option," she said.

She said feminists have remarked that the hand that rocks the cradle is rocking the boat.

"But we cannot escape change, nor should we, for it can lead to a time when things are much better. We will see a new world with new patterns for men and women, with new options for each of us.

We can get back to that deep sense of honor and worth women felt in the 1770's only if men and women can share the options previously available only to the other sex," she said.

We must not be separated by labels such as 'masculine' and 'feminine'. It's not an either-or proposition

It's an and-both proposition.'

She said it is sometimes painful to be so aware of the sexism in our society, but that the pain will not go away.

It (the awareness) is not reversible. But I see all kinds of hope.



thursday mit's independent community paper Vol.6 No.16 February 14, 1974

Mary Rowe on Sexism

obstacles of sexism that confront women in universities such would appear as random enas MIT was the subject for a recent study done by Mary Rowe, the Special Assistant to the President and Chancellor for Women in Work. She began by comparing the phenomena of tiny grains of sand which collectively form rings about Saturn and of the trivial aspects of sexism that taken together act as barriers to equality between men and women. Various problems, sexist in nature, work differentially in creating unique difficulties for women in educational institutions. The case study, the experiences of an imaginary Margaret McIntyre, Dean of the School of Arts and Sciences at Worcestershire University, is an illustration of the frequent demeaning occurences involving a female administrator. The incidents of the account, however, are all real, taken from the lives of women in educational institutions in New England in 1973.

SATURN'S RINGS

In my job I find a problem which does not lend itself to legal redress or even to improvement in time of economic promise, and which occurs with frequency at the best and most humane of institutions. The minutiae of sexism appear to me a major problem for women in educational institutions. The problem is formidable not least because of the pettiness of the individual events involved, and women, many of whom dependent for too long.

The subtle, often overlooked individual solutions. Saturn's rings, if one lived inside them, counters with dust and ice. Perhaps the dust and ice would even appear so scattered as not always to deserve defense against them. But the objective

eye which observes from a distance will see that many grains of sand taken together obscure the planet, and create formidable barriers ... Women must themselves

learn to recognize and analyze the tilted atmosphere - and cope with it. Since denial is often easier, this requirement is not lightly made. The requirement is also in some cosmic way un-just; to require the victim to begin redress of grievance itself constitutes "unequal opportunity" But I think there is no choice.

mosphere means many things. It means learning to discriminate between behavior from others which is supportive and behavior which is not. It means making visible the invisible, refusing to accept conscious slights, finding budget could not handle lockers medical help for people who need needed for the newly-formed it. It means building support among men and women for each other. This is most effectively done by communicating and fostering those areas where men and women stand to gain by get-

things is particularly important. things is particularly important. "Those poor kids." she The experience of standing up for thought. "Already they can't oneself and of taking responsibi-use the pool in prime hours, lity for oneself is critical for women, many of whom have been trainer's quarters through the

SAND AND ICE: A CASE STUDY Margaret McIntyre came early into the office to call a would-be transfer student she'd been trying hard to get long-distance. "This is Dr. Margaret McIntyre" she said to the operator, "person-to-person to Everett Snow." "Margaret McIntyre with a call for Dr. Snow," said the operator to the student's roommate. As she waited, she thumbed through through the day's mail.

- Dr. M.P. McIntyre Dean of the School of Arts and Sciences
- Worcestershire University... Dear Sir:

We believe that a man in your distinguished position... She dropped the form letter into her waste basket. Another Coping well with the tilted at - letter inviting "graduate students and their wives" to a picnic. Alas - what of all the graduate students and their husbands? A note from the Women's Association that they'd been told the year's women's crew. Women would have to dress in their rooms, race one-half mile to the rapidly chilling riverbank, work out, and then run back to change before classes. Or ting rid of sexism. And for women to do these but that just isn't thinkable. else use the men's lockers-play mixed squash, get to the men's locker room. And

Mary Rowe, Special Assistant for Women in Work

somehow we need to find money for new women's bathing suits! the men have them.

Margaret leafed through a new issue of her professional journal wishing she had time

to keep up. An ad leapt out at her: a full-page nude with a caption "Product X doesn't lie down under pressure." Another caught her eye--a picture of a naked woman wearing a Viking helmet and holding a shield over her torso with the caption "Protection for vital parts." A familiar ripple of hurt rolled over her, mixed with anger. Time spent writing protests was time away from keeping up with her academic duties. Yet someone needed to point out that science and engineering journals would be improved by pictures of professional women. rather than... well, what would be the word?... "prostituted women," she whispered softly to herself. Everett Snow's roommate seemed to have forgotten the call. After ten minutes Margaret hung up. Nearly nine o'clock. If she was to get to her first meeting on time she'd have to hurry the several minutes it took to get to the nearest women's room in this formerly male institution. Funny. She'd just accepted this small annoyance. Until that group of students in physics complained of five-hour exams on the third floor of Stotter Hall, where the only women's room was three flights and two long halls away, and they weren't permitted to use the nearby men's rooms ... Margaret pulled her stockings up smooth. This morning had been windy and the offices were at 62⁰; she wished she dared wear a warm pants-suit. But the meeting with the trustees was important to everyone. No use setting the (continued on page two)

Lettuce Boycott D If the growers should succeed Drive on Campus

This spring and summer will prove to be very critical to the U.F.W. Therefore a stepped up campaign is being implemented to remove non-UFW lettuce from MIT dining halls. Since among farmworkers unemployment is high and wages are low, the present strikes are difficult to maintain and probably cannot last past this summer. The consumer boycott of non-UFW

at breaking the UFW strikes it will force farmworkers to accept "labor contractor system" which is found in contracts signed by the Teamsters and allows the growers to punish those who try to organize farmworkers by refusing to hire them. This would mean that migrant laborers, who earn an average of only \$1500 a year and have

years, would be powerless to improve their lot.

This week, leaflets will be passed out at Walker and Lobdell explaining the UFW cause and urging people not to buy non-UFW lettuce.

Last year, efforts on behalf of the UFW led to the posting of signs telling which type of lettuce was being served. Last term, the Dining Service failed to maintain the signs, and many people got the impression only UFW lettuce was being served. To help clarify the present situation, new signs were posted the first week of the term. The problem remains, though, that MIT continues to sell non-UFW lettuce. By doing so, MIT is making it easier for grwers to outlast the UFW strikes, and thereby is responsible for helping to decrease the chances for improvement in the lives of farmworkers. Other colleges, including Harvard, Boston University, and U. Mass. have recognized there social responsibility in this area and refuse to sell non-UFW lettuce. Eugene Brammer, head of Food Services at MIT, has state stated that he will only be influenced by a drop in sales on days when non-UFW lettuce is being sold. While those organizing here feel that most members of the MIT community support the cause of the

farmworkers, organizing a selective boycott such as Brammer demands is a formitable task. It means making it clear to people that they should not boycott all lettuce at the dining halls, just non-UFW lettuce, since boycotting all lettuce will not affect the relative amounts of UFW and non-UFW lettuce being sold. It also means that activities to remind people not to buy lettuce on days when non-UFW lettuce is being sold have to be organized on a days notice. Because organizing a boycott is so difficult, tenative plans are to circulate a petition at the dining halls demanding that MIT stop selling non-UFW lettuce. Last year, Brammer rejected a petition with 2,000 signatures on the grounds that many who signed did not patronize the dining halls. It is hoped that by collecting the signatures at the dining halls, Brammer will be satisfied that his costomers do not want non-UFW lettuce sold. Currently there is a group of students working in support of the farmworkers' struggle at MIT. Anyone interested in participating should come to a meeting Tues. at 9:00 PM in room 400 of the Student Center. We will discuss having a Forum here with a member of the Boston boycott committee as speaker, and will set up teams to leaflet for the Forum outside the dining halls.





Saturn's Rings: Grains of Sand and Bits of Ice

by Meredith Porter

The Cambodian capital of Phnom Penh was shelled Monday by insurgent forces in what was described as an act of terror directed against civilians but designed to weaken the already strained government. Casualties exceeded even those from the "accidental" bombing of Neak Luong by an Amer-ican 8-52 last August. Official counts show over 150 dead and 500 wounded, with perhaps 5000 home-less. A town of 1000 wooden houses was completely flattened, and the area was filled with charred and smashed bodies.

A British banker's offer of \$5.5 million, intended to temperarily end the coal strike, has been rejected by union leaders. Acceptance of the offer, which amounts to a one-time gift of \$22.50 per miner, would have pulled the rug out from under the electoral plans of conservative Prime Minister Heath, who has called a national election for Feb. 28 to break the impasse. At the same time, however, it might have weakened the miners' bargaining position, since stocks of coal are rapidly shrinking in the cold weather and a special Pay Board inquiry is due to begin soon.

Soviet dissident author Alexander Solzhenitsyn, who was arrested Tuesday after rejecting two summonses from the state prosecutor, has been deported and stripped of his citizenship, and is currently staying at the country retreat of West German author Heinrich Bohl. His family is still in the Soviet Union, but authorities say that they will be allowed to join him in exile.

bill that would provide for public financing of major-party candidates in federal election cam-paigns was approved last week by the Senate Rules Committee. The measure, which is a combination of proposals by Sens. Scott, Kennedy, and Pell, would forbid such candidates from receiving private funds. A similar bill passed the Senate last year but was killed with the help of the White House.

Randolph Hearst, the newspaper executive fath er of kidnaped Patricia Hearst, said yesterday that it would be impossible to meet the demands of the Symbionese Liberation Army, but that a counteroffer was being planned. The kidnapers told him Tuesday that he could ransom his daughter by supplying free food to poor people throughout the state, and suggested a distribution system. The plan would cost more than \$100 million, and provide \$70 of food per Derson.

(continued from page one) old Chairman to wondering about her sex-life. He had seemed so relieved that she was married and had children, when he interviewed her. There and then she'd instructed herself to stay in skirts. Let's see, drop by Vice President Browne's office to see his assistant Merrillee Werth, for the meeting's agenda.

As she came in, Dean Jones poked his head in. "Hello, Merrillee Browne!" and then, "Wow!" He stopped, staring at Merrillee's legs. "I haven't seen you in a skirt before, ' he faltered, continuing to stare as he backed out, half pretending to leer, half leering. The door closed. Merrillee turned speechless to Margaret. "I've asked him over and over to call me by my own name, " said Merrillee, "and, dammit, I wear skirts alot, I just haven't done so for several weeks since the weather turned cold. And what business is it of his?" Margaret knew the young woman's feminism and shook her head in sympathy. She noticed a new name plate on Merrillee's desk -Mrs. Werth 'Merrillee? -- Not Ms. Werth?" Merrillee shook her head. "Mr. Browne had it made for me. I blocked out the 'r' but he got very angry. Hey, here's the agenda. I'll be to the meeting in a moment.'

Margaret hastened to the meeting room, already full of trustees, many of them new. She felt a twinge of anger that the new trustees were all men but to whom could one complain? Phey'd graciously thanked her for all her recomendations...She glanced around, curious to meet Nobel Laureate Platz who had just been named, and surely that was his famous: face right by the door? Platz turned to her as she came in. "Oh good" he said, "Now we'll get some coffee." She paused and took a breath, ignore it? get some coffee? Just then Tobert Browne came in with Merrillee Werth and began introductions. "Dr. Platz," he said, "Dean Smythe, Professor Cabot, Dr. Lyman, Dr. Margaret McIntyre. "Oh and Merrillee. You know all the others." Margaret just looked at Merrillee. She wondered how she could bring up the matter of names. It was especially difficult because she liked and admired Robert Browne and knew that he was making huge efforts to support equal opportunity for women and minorities. The meeting progressed.

After an hour on academic policy, Platz turned to Mar-"Before we finish, garet. Dr. McIntyre, do you want to add the woman's point of

view ?" She shook her head wincing inside at "the wo-man's point of view." Be quiet, she told herself, be polite, the next issue was more important; she had to present the need for a woman gynecologist. But oops, what was that? Aft all, she decided to speak out on the academic policy problem--there was a serious budget implication the newer 10 men had not known of. There was a pause for her to speak...then the men's con-versation swirled on without acknowledging her point. Just as she wondered if she'd have to raise it again, Browne summarized the discussion and said "But gentlemen we must in fact consider the vital budgetary implications that Cabot mentioned." Margaret felt her familiar sense of the surreal as she sondered about Cabot sitting silently next to her. Did he notice that her budget point had been attributed to him? She was real, she reminded herself. Just now and then invisible.

She presented the need for a women OB-GYN specialist. Student complaints ... the young woman with infection following an IUD perforation who was told she couldn't leave the infirmary for the evening "because she was not yet ready to go out and screw." The men looked puzzled and concerned. "But if she had a VD infection, surely she was not ready to have relations?" asked Dr. Wright. Margaret drew breath. How to explain that the student had wanted to go to the library . . . and that there seemed to have been too many IUD perforations .. and that it was not VD, and that the women just wanted a woman gynecologist who, by the way, might speak to them without the rough familiarity of the man now there

At the end of the meeting the men hastened off to the Faculty Club grouping themselves into lunch companions. Margaret returned to her office feeling both left out and glad to be alone. She was not up to the flirting of Dean Smythe for one thing. Ever since their turfs had begun to collide a little she had remarked an increasing tendancy for him to sexualize their relationship. Worse yet, she easily identified in herself a reciprocal tendency to re-establish ordinary malefemale dominance patterns whenever she found herself in competitive situations with men. She knew she found it easy to flirt with Smythe and was annoyed with herself. This was after all

a remarkably good institu-

als and she had an obligation to keep her mind on her job and do it really well.

A shy woman poked her head in. "I'm Linda" she began, and stopped. Mar-garet was used to the occa-sional anonymous caller, and nodded warmity to the chair beside her. Secre-taries, programmers, waitresses--all the women in the university sought her out. Over the following hour Linda's story tumbled out. She had been a secretary here for many years. In the neighboring library worked a computer specialist whose work often brought him past her cubicle. He was exposing himself she bad ence complete the big had once complained to his supervisor, it had stopped, then started again in 1960. "This has been going on since 1960?" Yes, and she had finally come to the Dean of Arts and Sciences because now the man was getting bolder and Linda was afraid to go to a male administrator and there were no other female administrators.

Later on in the Medical office, talking with the chief psychiatrist on Linda's case, Margaret was assured they would call in the computer man. "But remember, it's probably just her fantasy. After all, since 1960... wouldn't the woman have done something about this?" Margaret mused on this question. Was it that the doctor couldn't handle aggression against women or that once again a woman had failed to stand up for her rights? Or both? Or maybe the doctor was wisely seeing both sides? Or maybe the woman had known nothing would be done?

It was easy to believe any or all of these explanations. Margaret remembered the Self-Defense Handbook just distributed by campus police to the women. The police were exceptionally good here, the booklet wasn't really bad. Yet it was illustrated with diagrams of smiling women considering the rise in crime statistics; it abjured women against "provoking rape" by wearing "conspicuous clothing in dark areas? - what man got raped for wearing conspicuous clothing in dark areas? It recommended shouting and scratching - kicking a rapist in the groin with intent to injure was not included in this polite booklet. She reminded herself that many men have a hard time dealing with aggression against women.

But, she thought, what about Linda? An hour later, with a call from Psychiatry confirming Linda's story, Margaret wondered again about the extent to which women will simply take abuse. If Linda had stated her

ed - (oh?) - and would he mind if I tried to be called Miss White by the faculty with whom I deal. Letter Two

The gist of his answer: no, I don't mind, but I really think there's going to be difficulty with this - we have so many cultures meeting here among the group, that some people may resist this. He agreed I have the right to feel this way, and to try to amend it, but he did not offer or agree to do anything about it himself. Letter Three

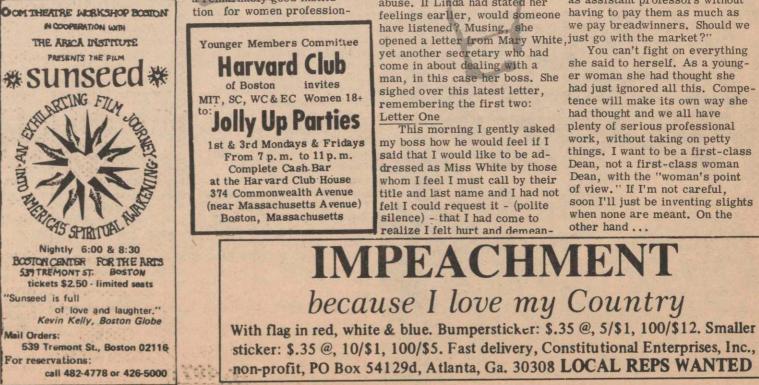
... it (the request) apparently had a zero, even negative, effect, because he has been very clearly calling me Mary ever since. My feeling is that he was mightily embarrassed, and therefore somewhat angry and that if I press it further I will be penalized if not eased out. I am reluctant to press. And, as I think I mentioned, this is a very complex person who I don't think means to hurt. As she put the letters away, Margaret realized that many women do try to change matters, but often without results.

What was she to do with the grains of sand? Painters propositioning students, employment agency people "accidentally" ignoring her requests for part-time help, the alumni up in arms about the increase in numbers of women students. She winced thinking about the alumni - and the alumnae. The alumni office was upset at the thought of more women students because alumni give more money than alumnae. A problem worth considering all right. But she wasn't sure she yet knew the dimensions of the problem since she'd just learned that wive's gifts were always registered in their husband's names, and many of the women graduates had married men graduates.

She considered again her last week. A woman protesting that only men could participate in the diet experiments - once again the medical "norms" would be male medical norms. Three students came in alleging that women were graded lower than men by a professor in the Divinity School. How would she sort out that one? Grading examinations identified by number would be hard to sell to the faculty she thought ... and would further impersonalize the school.

Was she spending too much time thinking about all this? May be it was hopeless anyway. She remembered the professor with whom she spent two hours of her finest tact, who left after graciously discussing his recent behavior with women students saying, "But it is a man's world - they might as well get used to it." The nearby university president who said to her last night at dinner, "But university finances are stretched beyond belief and we can get faculty wives as assistant professors without

The move for Senate ratification of the U.N. anti-genocide convention failed last week. The convention, adopted by the U.N., 55-0, was sent to Congress by Pres. Tru-man in 1949, Opponents fear extradition of Americans for genocide in Vietnam and Korsa, or domestic racial policies.



having to pay them as much as we pay breadwinners. Should we

You can't fight on everything she said to herself. As a younger woman she had thought she had just ignored all this. Competence will make its own way she had thought and we all have plenty of serious professional work, without taking on petty things. I want to be a first-class Dean, not a first-class woman Dean, with the "woman's point of view." If I'm not careful, soon I'll just be inventing slights when none are meant. On the other hand ...



Joni Mitchell: Lyrical, Musical Schizophrenia

It used to be that listening to Joni Mitchell music was for depressed or very serious and heavy moods. This came to a head on her Blue album, the mood represented by the cover, all blue, with a lone picture. Then came For the Roses and now Court and Spark. The re-presentative nature of the jackets continued. For the Roses showed a self portrait of ecstasy from sniffing roses and a nude photo of her on a rocky beach of the Pacific Ocean. Those reflected her new-found freedom, both lyrical and musical, of the album.

The only picture of Joni on the jacket of Court and Spark shows her with a kind of half smile closed eyes, yet the blown hair effect indicates the same exhilarated freedom of Roses. Her newest drawing is of a huge wave with mountains in the background, the form of the wave indicating the boldness of her freedom, dragged down by her obligations.

This duality is fairly representative of most aspects of the album. Musically, for the first time Joni Mitchell enlists the support of full bands behind her on most cuts. The range of instumentation extends from her own acoustic guitar and piano to strings to Tom Scott's woodwinds and Chuck Findley's trumpet to a number of guitarists, including Robbie (the Band) Robertson and Larry Carlton.

The styles of her music also vary widely. She rocks out on a couple of cuts, especially "Raised on Robbery." She betters Bette Midler's newly re-newed bop style on "Twisted," a song Ms. Midler also recorded. Then there's her more normal slow stuff, but even these seem to be up-tempoed a bit. Her "new freedom" gained on Roses gave her not only the boldness to try these new styles. More than that, she is very effective in whatever style on the album she chooses, including the old.

Larry Appleman, Randy Berge, Bev Butts, Mike Butts, Nina Cahan, Bonnie Buratti, Ramiro Garron, Heidi, Josh Klayman, Jeff Kravin, Joanie Lund, Doug McGlathery, M Miller, Missy Mink, Frederic Mishkin, Jack Kim O'Brien, Paul Pangaro, Meredith

The duality of the "old Joni Mitchell" and her present self (obligation vs. freedom) is the dominating theme of the lyrics of Court and Spark. It takes several different forms. In a few songs, most noticeably the title cut and "Help Me," it takes the form of her need to keep free of the obligations of love

And the more he talked to me The more he reached me But I couldn't let go of LA City of fallen angels.



A second major theme appears in songs like "Free Man in Paris." It pits her inner desires against her public's and/ or economic obligations: I was a free man in Paris

I felt unfettered and alive Nobody was calling up for favors No one's future to decide.

The third theme is a much more personal one, concerning her own schizophrenia (in''Trouble Child"):

You can't live life and you can can't take it Advice and religion you can't

take it ... You really can't give love

in this condition Still you know how you need it.

Ending the album with "Trouble Child" and "Twisted" (which treats the same subject matter more humorously) indicates that Joni's personal crisis between freedom and obligation has not been resolved.

LIVE AND LET DIE

SC

Friday

Sunday

The most recent of the James Bond movies, this one doesn't have Sean Connery but instead gives us Roger Moore, who was The Saint. The only part worth even thinking about is the score, put together by George Martin, the producer of the Beatles. I won't mention the title song by Paul McCartney. Saturday

ROMEO AND JULIET

Zefferelli's Romeo and Juliet seems to have gotten mixed reviews. There are those who feel it's sickly sweet, sentimental garbage, and those, like myself, who feel it's a very beautiful sensitive enactment of one of the best love stories of all time.

CASABLANCA

This is the classic Bogart film. See it for its style. See it for its class. See it to hear Bogie say "Play it again, Sam." (He doesn't.)

--Jeff Kravin **'Serpico:' Honest Cop**

Police flicks have always been popular American entertainment. The current fascination with violence has made this movie theme even more profitable for the major movie companies, hence the increased production of these films in recent years. Some decent movies have been the result --The French Connection and Dirty Harry--yet somehow, watching tough cops and hardass criminals gets tiring. Serpico is the true story of Frank Serpico, the policeman whose efforts resulted in the exposure of widespread corruption in the New York City Police Department, and this led to the formation of the now famous Knapp Commission. Unfortunately, at points Serpico of evil. There are no simple is just another cop flick. There answers for dealing with this is the standard amount of brutality and sadism on the part of the police and on the part of the criminals; there's plenty of gunfire, blood and chase scenes--though these chases are conducted on foot, rather than with a car as has been the case in so many cops and robbers flicks lately. Yet, Serpico does rise above the

Serpico describes in detail police corruption in New York City and thus has an important and frightening story to tell. Corruption is a serious evil in our society, whether it occurs in the White House or in a precinct building in New York. It is an issue that people prefer to ignore, yet corruption is crippling; Watergate and our inability to deal with crime in our cities are strong testaments to this fact. Serpico shows us how our society fosters corruption. Leadership ceases to distinguish between right and wrong, loyalty to an institution is considered more important than working for the public interest, and the average guy is complacent in the face problem. Even at the movie's close, when Serpico's ettorts have resulted in concrete action by the City government to combat corruption, you still have the depressing feeling that it is almost a hopeless cause.

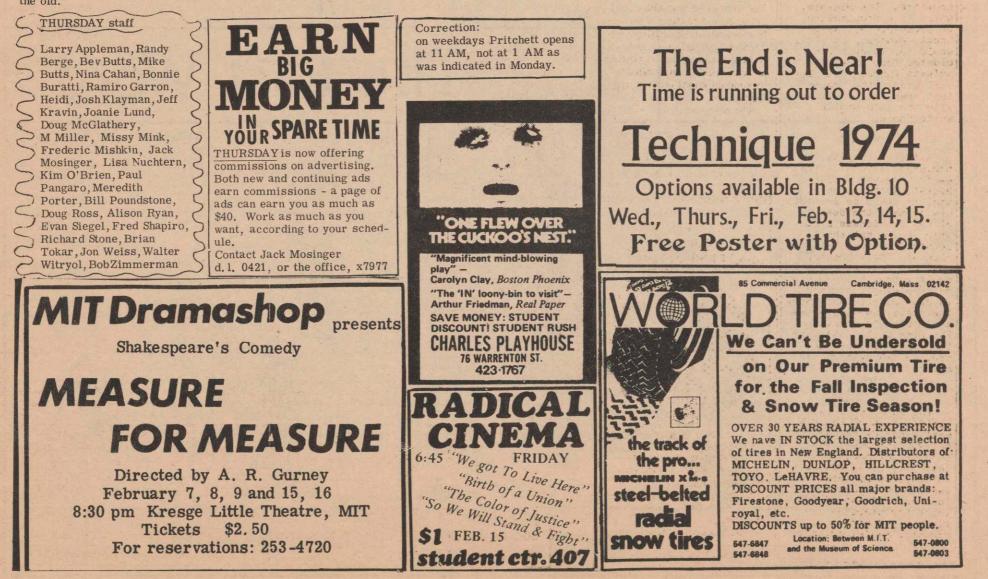
Al Pacino puts in an excellent performance as Frank Serpico. No superhero appears on the screen, who with one mighty blow will purge New York

City of corruption. Instead, Al Pacino's Serpico is a man who always wanted to be a cop and sees the falsehood of his dream of a truly helpful and vibrant police force. He exposes corruption, not because of his upright moral character and love for his fellow man, but because its existence tortures his soul. Al Pacino is compelling in this role; he is a human being with the natural human failing of fear, yet he has courage; most of all, he has a delightful sense of humor which disarms both enemies and friends. At times, Al Pacino even achieves the charm of a Dustin Hoffman at his best

Serpico has touches of excellence, yet it is marred by its commercialism. Only superficial attention is paid to many important issues, and Serpico's character is only partially outlined. Serpico could have been something really special, yet after all, violence and action sells movie tickets.

Serpico is now playing at the Cheri Theatre Complex in Boston.

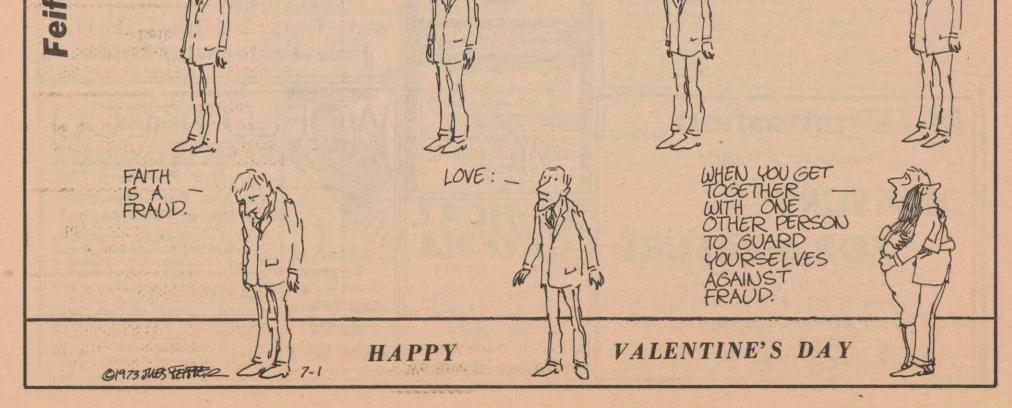
--Frederic S. Mishkin



ordinary police movie.



Love and you will be loved. All love is mathematically just, as much as two sides of an equa- tion.	We love the things we love for what they are. — Robert Frost	The great tragedy of life is not that men perish, but that they cease to love. — W. Somerset Maugham			
Ralph Waldo Emerson	The little girl expects no decla-	The mind has a thousand eyes,			
If you would be loved, love and be loveable. — Benjamin Franklin	ration of tenderness from her doll. She loves it - and that's all. It is thus that we should love. — DeGourmont	And the heart but one; Yet the whole of life dies, When love is done. — Francis Bourdillion			
Love begins when a person feels another person's needs to be as important as his own. — H. S. Sullivan	And ever has it been known that love knows not its own depth until the hour of separation. —— Kahlil Gibran	There are certain basic ele- ments common to all forms of love: care, responsibility, res- pect, and knowledge. — Erich Fromm			
To love is to find pleasure in the happiness of the person loved. — Leibnitz	Love in your heart wasn't put there to stay. Love isn't love till you give it away. — Oscar Hammerstein II	The spectrum of love has nine ingredients: Patience: "Love suffereth long." Kindness:" And is kind. "			
Love does not dominate; it culti- vates. — Goethe	One expresses well the love he	Generosity: "Love envieth not." Humility: " Love vaunteth not itself, is not puffed up."			
Speak low if you speak of love.	does not feel. J. A. Karr	Courtesy: "Doth not behave itself unseemly."			
— William Shakespeare Love is more easily illustrated than defined. — anonymous	Love does not consist in ga- zing at each other, but in looking forward together in the same direction.	Unselfishness: "Seeketh not her own. Good temper: "Is not easily provoked Guilelessness:"Thinketh no evil. " Sincerity: "Rejoiceth not in iniquity, but rejoiceth in truth. "			
a purpose of human life, no mat- ter who is controlling it, is to love whoever is around to be loved.	— Antoine de Saint-Exupery	Henry Drummond As two pieces of wood floating			
	You could not give up a human heart as you could give up drinking. The drink was yours, and you could	on the ocean come together at one time and are again separated, even such is the union of living			
Love all God's creation, both the whole and every grain of sand. Love every leaf, every ray of light. Love the animals, love the plants, love each separate thing. If thou	give it up; but your lover's soul was not your own: it was not at your disposal; you had a duty towards it. — T. H. White	Creatures in this world. — The Mahabharata Once the realization is accepted			
love each separate thing. If thou love each thing thou wilt perceive the mystery of God in all; and when once thou perceive this, thou wilt thenceforward grow every day to a fuller understanding of it: until thou come at last to love the whole world with a love that will then be all-embracing and universal.	Love give naught but itself and Love gives naught but itself Love gives naught but itself and takes naught but from itself. Love possesses nto nor would it be possessed; For love is sufficient unto love. — Kahlil Gibran	that even between the closest human beings infinite distances continue to exist, a wonderful living side by side can grow up, if they suc- ceed in loving the distance between them which makes it possible for each to see each other whole against the sky. — Rainer Rilke			
Inasmuch as love grows in you, so in you beauty grows. For love is the beauty of the soul. — St. Augustine	by Nina Cahan The I	Last Word			
FRAUD: FRAUD:	AMILIES REA - RAUD RAUD RAUD RAUD.	WORK IS AUD III FRAUD.			



Five MIT Experimenters Included On Teams Preparing Mars Mission

If all goes according to plan and two unmanned Viking landers settle on the Martian surface in the summer of 1976, five MIT scientists will anxiously await the information they radio back to earth.

The scientists-members of national teams that have worked years to design four of the crafts' experiments-will help analyze data to be collected about physical and chemical properties of Mars, its seismic activity and whether there is life there.

The two Mars craft will be launched late in 1975, and are scheduled to land about 45 days apart

Each craft consists of two parts. One part will land on the planet's surface. The other, which will remain in orbit around Mars, will contain most of the radio equipment for contact with earth.

Each craft has an expected lifetime of at least 90 days, so there should be a period of 45 days when the two will be operating together. Seismic Team

Having two research stations is important for seismic studies-in order to determine the precise location of any Mars quakes that may occur while the two are operating.

"We expect to see some seismic activity on Mars," said M. Nafi Toksoz, professor of earth and planetary sciences at MIT. "We hope to be able to determine how Mars evolved, and its present state of evolution, from information recorded by the seismometers and transmitted back to earth."

Dr. Toksoz and Dr. Frank Press, Robert R. Shrock Professor of Geophysics and head of MIT's Department of Earth and Planetary Sciences, are both members of the Viking seismic study team.

"The big question is exactly how active Mars is," Professor Toksoz said. "If there is a lot of activity, for example, that would mean the planet is relatively warm inside, it might have volcanic activity, and it could indicate that the planet has a core. Because Mars has very little magnetic field surrounding it, finding a lot of seismic activity could change our thinking about how magnetic fields are generated in planetary bodies."

Each three and one-half pound seismic package will maintain a continuous record of the activity of the planet. However, only the activity that is significantly greater than the average background will be radioed back to the earth receiving stations.

Dr. Klaus Biemann of MIT's Department of Chemistry, is head of a nine-member molecular analysis team. "We will be looking for organic compounds on Mars," Professor Biemann said. "We want to know what the compounds are and how much of each is present.

Original Molecules

"If we do find organic compounds and identify them, we hope to be able to determine how they were produced. In particular, could the compounds eventually evolve into living organisms? Or, were they produced by living organisms and now merely fossil remains?"

An arm of the Viking lander will pick up soil samples from the Martian surface for molecular analysis. Each sample will be heated twice-first to 200 degrees

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Centigrade and then to about 500 degrees Centigrade. Small molecules will be driven out of the soil at the lower temperature. At 500 degrees, larger organic molecules will be broken down to small compounds. These products will be analyzed by a miniature combination gas chromatograph-mass spectrometer and the raw data transmitted to a computer on earth

Analysis of the transmitted data should reveal what molecules were detected. Further analysis should reveal the original molecules from which the fragments were derived.

Scooped Into Lander

Another team will search specifically for signs of life on Mars. Dr. Alexander Rich, professor of biophysics in the MIT Department of Biology, is a member of this team

"The first concern of the biology team," Professor Rich said, "is to determine if chemical evolution on Mars has evolved to the point where chemical systems are complex enough to be called living. If such systems are found, then it will be just as important to determine their biochemical and structural characteristics. We only know about one kind of lifethat on earth. If there is life on Mars, we could learn a great deal about what kinds of other systems are capable of supporting life."

The biology team has no idea what they may discover on Mars. Therefore, their life detection equipment is designed to detect forms of life that may be completely different from that on earth. The basic assumption they are making, however, is that if there are living organisms, some forms will be small enough to be scooped into the landers with samples of soil. **Radio Studies**

Each soil sample will be divided into four test portions. In two chambers, the samples will be exposed to radioactively labeled carbon gases and substances that might be used as food. Analysis of the sample will then reveal whether or not the labeled carbon had been incorporated into living systems.

The soil sample in a third chamber will be moistened with water. The space above the sample will then be monitored continuously for six gases. If the composition of the gas mixture keeps changing, that would indicate metabolism is taking place.

Another series of experiments will utilize the sophisticated radio tracking systems carried by both Viking landers and orbiters. Dr. Irwin I. Shapiro, MIT Professor of

Academic Calendar

1973

September 10	Registration day, First Term
September 11	Classes begin
October 8	Columbus Day (holiday)
October 22-23	Vacation, Veterans Day
November 22-23	Thanksgiving vacation
December 12	Last classes in subjects with a final exam
December 14	Last classes in subjects with no final exam
December 17-20	Final exam period
ember 21-January 6	Christmas vacation

1974

January 7-30	Independent activities period
January 31-February 1	Vacation
February 4	Registration day, Second Term
February 5	Classes Begin
February 18-19	Vacation, Washington's Birthday
March 23-31	Spring vacation
April 15-16	Vacation, Patriots' Day
May 15	
	final exam
May 17	Last classes in subjects with no
Carlos and States and States	final exam
May 20-23	Final exam period
May 27	Memorial Day (holiday)
May 31	Commencement exercises
June 10	Summer Session begins

Asst. Director Joins Associates

Jordan D. Carter, formerly assistant to the director of research at Tyco Laboratories, Inc., Waltham, has been appointed assistant director of the MIT Associates Program.

Dece

Mr. Carter, who received his SM from the Sloan School of Manage-



Jordan D. Carter ment in June 1972, will report to Jerome J. Schaufeld, director of the MIT Associates Program since 1970

Mr. Carter, who has a bachelor's degree in chemistry from the Uni-

craft and quasars, the team also expects to improve by one hundred-fold the determination of the solar system's orientation with respect to the most distant objects known in the universe.

versity of Rochester, was graduated from that institution in 1970 Magna Cum Laude. He is a member of Phi Beta Kappa.

He makes his home with his wife Barbara at 72 Nicholas Rd., Framingham.

The Program was begun 12 years ago to foster an exchange of information and interaction between industry, commerce and the Institute faculty and research community

The primary purpose of the program is to provide member firms-there are now 30-direct and convenient access to the Institute's educational and research programs, while at the same time providing the Institute with important unrestricted financial assistance and professional relationships

Epstein Chosen

Professor David M. Epstein, conductor of the MIT Symphony Orchestra, has been chosen as one of the recipients of a 1973-74 Award from the American Society of Composers, Authors and Publishers (ASCAP), presented to encourage composers of serious music.

Real Sand Castles

An elaborate feudal manor with fields and outbuildings won first place in the professional category of the Ipswich Sand Castle Com-



ECONOMIC BRICKS-Like masonry, copies of the just-published ninth edition of Professor Paul A. Samuelson's classic text, "Economics," are laid up in a paper wall in the Tech Coop bookstore. In the book, the Nobel Prize-winning MIT economist advances the concept of NEW, standing for Net Economic Welfare, as a supplementary measure of the performance of an economic system-as opposed to GNP (Gross National Product), the index of economic production.

Geophysics and Physics and a member of the Viking Radio Science Team, will participate in these studies.

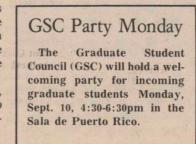
The radio signals will be exquisitely sensitive to the motions of the spacecraft and the earth and to the intervening medium.

As a result, analysis of the signals will yield important information on a broad scientific front: density and temperature profiles of Mars' atmosphere and ionosphere, the gravity field and geometric shape of Mars, the masses of its tiny moons and of the asteroid belt, and the variations in the charged-particle content of the interplanetary medium and the solar corona.

The results will, for example, improve our knowledge of the deep interior of Mars and of the meteorology of Mars and the sun. By alternately observing space-

Finally, as the Viking ships pass behind the sun late in 1976, the radio signals, through the direct effect of solar gravity on their travel time, will provide the most stringent test yet applied to Einstein's theory of general relativity.

If all goes as expected, Dr. Shapiro estimates at least two years will be required to digest the billions of bits of data to be harvested from the mission.



petition recently for three MIT people.

They are Laura Malin, Boston, a secretary in the MIT Libraries, William Holland, Mattapan, a June graduate in architecture, and David Covert, Brookline, a former student. The strictly-for-fun contest drew 47 teams in four categories at Crane's Beach.

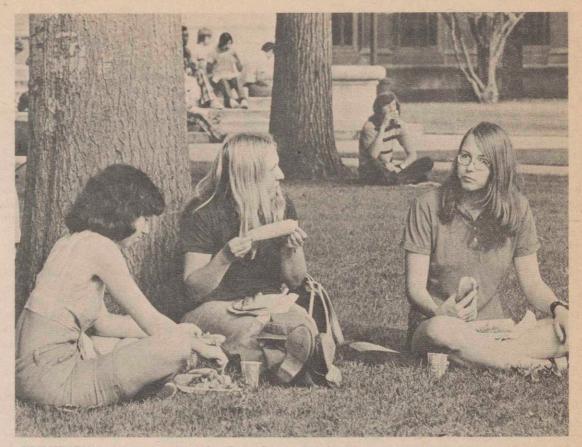
Margo's Back

Photographer Margo Foote who has been on leave of absence since June returned to her post as Assistant Director (Photojournalist) in the MIT News Office this week and her photographs will begin appearing in Tech Talk soon. During her absence, her temporary replacement has been Susan Pogany whose photographs have appeared in the newspaper regularly.

Tech Talk, September 5, 1973, Page 5



LIKE many freshmen, Blake Hurt of Charlottesville, Va., arrived bearing athletic equipment. He uses his lacrosse stick as a hanger for some winter clothing, including an Air Force overcoat that belonged to his father.



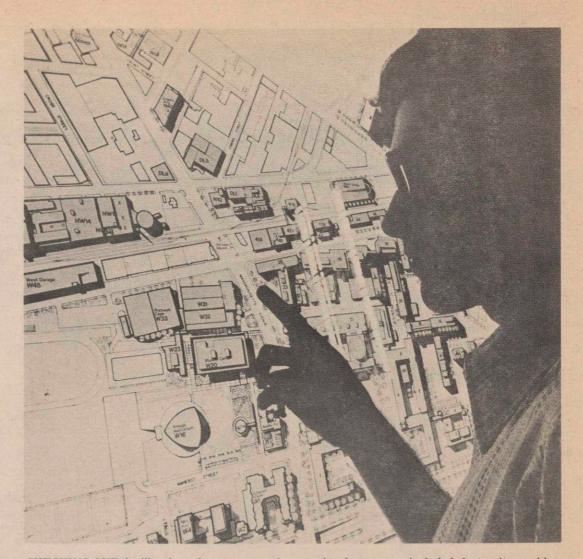
tion week. They are, from the left, Edna S. Summers of Michigan City, Ind., Susan M. Nelson of double the number enrolled five years ago. Duluth, Minn., and Janice L. Izenberg of Potomac,

FRESHMEN women get acquainted at Great Court Md. The Class of 1977 includes 124 women-a record picnic that formally opened Residence/Orienta- percentage. They will be among approximately 500 undergraduate women enrolled at MIT this year,

It All Begins Here

The freshmen came, saw and created something newthe Class of 1977-at MIT last week. The photographs show some of them as they arrived for the Residence/ Orientation program, which is continuing this week.





AN EARLY ARRIVAL, Ronald J. Watro of Rochester, N.Y., waits in the corridor outside the West Lounge in the Student Center. The lounge was the Residence/Orientation center for the approximately 900 freshmen who arrived on campus last week. Ron brought his trombone with himhe expects to audition for the concert band-and said his initial plans included looking for a job.

CHECKING OUT the illuminated campus map in the Building 7 lobby is Gary M. Scher, who drove to Cambridge with his father from his home in Denver, Colo. Finding their way around campus is an unofficial, but traditional, part of Residence/Orientation week for freshmen and transfer students. The R/O week program continues this week and formally concludes Sunday with a President's Reception for parents. The Labor Day

weekend program included fraternity rushing, open house in dormitories and fraternity pledging. This week the freshmen are getting acquainted with faculty members, learning about subject options and special programs, taking tours, learning about the Institute's athletic facilities and programs and getting a fill-in on student activities.

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ONE OF THE rituals of freshman orientation is the identification photo. Having his picture taken in the R/O center is John G. Akerman of Stockholm,

Sweden, one of the freshmen representing 30 foreign countries. A Canadian delegation of eight students was the largest from a single country.



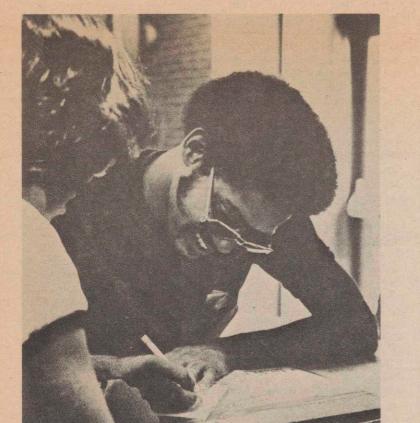
PRESIDENT JEROME B. WIESNER chats with Dorrie Zimmerman of Buffalo, N.Y., at freshman picnic. In a talk to the new students, Dr. Wiesner told them to use their years at MIT to "get a broad range of experiences and allow all of your talents and the many sides of your personality to develop."

-Photos by Susan Pogany and Sheldon Lowenthal

JUDITH THOMPSON of Spartanburg, S.C., had some special help getting settled into MIT. With her was her husband of three months, David Thompson, a second term freshman. They met in high school in Spartanburg and were married there June 2. The MIT couple will live at Westgate.









AMONG THE SMITHS arriving with the freshmen was Ian Smith of Trinidad, who is shown checking in at his temporary quarters at MacGregor House. He said he found the Cambridge weather hot, was looking forward especially to the fall foliage and had brought along a bottle of hot spices to give his food the taste he likes. LOGAN AIRPORT in Boston was the arrival point for many MIT freshmen. Here four of them are met at the airport by student greeters Anthony P. Cortizas of Winchester, Mass., left, and Edwin A. Richard of Seattle, Wash., fourth from left, who arranged for transportation to the Institute. With them, from the left, are Robert E. Meyer and James W. Pollock, both of Oak Ridge, Tenn.; William A. Gilchrist of St. Albans, N.Y., and Jeffrey P. Singer of Plainview, N.Y. New York sent more freshmen to MIT than any other state— 187—and Massachusetts was second with 113. The members of the class came from 46 states—West Virginia, South Dakota, New Mexico and Utah were unrepresented.

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"People Keep Asking Me What Androgyny Means"

(The following article is based on one that appeared recently in The Christian Science Monitor. It was adapted from a speech Dr. Mary Rowe gave at Association of MIT Alumnae Centennial Convocation.)

"Should men be able to cry sometimes, if they want to? Would not more men join the nurturant professions—and care for children and colleagues—if they felt they could?

"And why is it so hard for women to be innovative, financially independent? Why can't they have wider career options with better chances for success?

"In other words, I think we need a new vision of men and women at home and at work, an androgynous vision."

Dr. Mary P. Rowe, economist and special assistant to the president and chancellor of the Massachusetts Institute of Technology (MIT), was discussing her own particular point of view, as an economist, in the reorganization of the work lives of men and women.

"Androgynous people express spiritually both 'masculine' and 'feminine' qualities to the extent that they choose," Dr. Rowe explained. "They can be gentle and strong, wise and tender, dynamic and passive at times. Androgyny means that what people do in areas now sex-stereotyped shall not be determined by sex-typing but by personal choice and ability.

"Many people believe that our women are supposed to be passive, adaptive, patient, responsive, receptive, unaggressive, and dependent, and that our men are supposed to be aggressive, competitive, hard-working, and powerful—masters of women, leaders of men. Many believe this has worked pretty well. And others often ask me, 'Even if we haven't gotten along very well with our stereotypes, what makes you think we'll change?' "

What will change the status quo? Some pretty strong forces are moving us toward androgyny. Two hundred years ago, on the farms, men and women both worked more or less without salary, side by side in a joint enterprise for survival. Their work days were usually from dawn to dark. They had four or five children, perhaps, and both parents reared and trained these children.

Then men began to leave the home work place. They earned money; some gained status, power. They found more male colleagues. Women took responsibility for most homes and children.

Little by little, in modern factories and offices, the paid employment of men became separate from home (except for business Unpaid work was left to women. And our society came so to value money that a full-time homemaker with five children and all her husband's business entertaining will say she "doesn't work." Do you see changes in the fu-

ture? Yes, irresistibly. I've described only a stereotype, but that stereotype is giving way. For instance:

The textile industries and World Wars I and II drew women into paid work. Then in the 1960's, strong demands for workers in occupations that are now stereotyped for women pushed them further into paid work.

The old idea that "biology is destiny" is no longer true. The birth rate is down to fewer than two children per family, and pressures are strong to limit family size.

Day care is more acceptable. Smaller homes and more services outside the home are bringing changes, too.

Rising family expenses, together with increasing numbers of single, widowed, and divorced women are keeping the employment of women expanding.

Aren't people satisfied with the status quo?

I think they are not. We hear many questions being asked by hard-working men and women. "Why," women ask, "are we basically restricted to 10 or 12 'women's' occupations, out of the hundreds that exist? Why are we paid 60 percent of men's wages, and why is this wage gap still widening?"

By the same token, men have some questions: "Why should we fight the rat race? What did I spend my life for anyway, if my children don't know me or care for my values?"

Many women would like opportunities to be assertive, perseverant, ambitious, self-confident, creative, independent, to work with other adults, to receive equal pay for equal work. Many men would like chances to be tender, nurturant, warm-hearted, sensitive, expressive. Men want equal satisfaction for hours lived.

How shall we provide these new options for men and women so they can be androgynous?

We must break stereotypes in men's and women's thinking. And stereotypes start early. I know a PhD study of men watching their babies in a hospital nursery. The interviewer says, "What do you think of your baby?" The replies are either "Look how vigorous, how angry, how athletic, how active!" or "Look how dainty, how cuddly, how cute!" and we can guess which sex gets which comments, even though the father obviously doesn't have any objective knowledge of his child. mothers of preschool children already are in paid employment and at least one fifth of all childcare arrangements of such mothers are the fathers. But if we had equal pay and no stereotyping, I'm convinced many fathers would choose to be house-husbands not necessarily life-long, but happily for a year here, a summer there. And many mothers would choose more paid employment. Probably many young parents would choose, if they could, to



work both inside and outside the home—say three-quarters time in paid and unpaid employment for both father and mother.

The androgynous life requires support of extended family structures that really will work. Families often used to have live-in grandparents or servants. Not today. Now we need good childcare centers in apartment buildings, at work, in high schools, near foster-grandparents programs. Federal programs to pay retired persons in child programs would be important reintegrations of age groups.

Will the coming of androgyny take time?

Of course it will. Because of social structures and stereotyped thinking. Some people ask, "What of biological differences? Aren't men better adapted to the rugged competitions of paid work, and women to homemaking?" This is a fair question. But here are my own responses to it:

First, the structure of work has changed. For instance, a university president is not required to be a hunter, shooting buffalo. His or her real function is to listen, to take care of people, to nurture and to build. Certainly most of our executives today could happily be androgynous in that they must play the so-called feminine roles much of the time: They must get along with everyone, they must soothe, care for, harmonize.

Second-and this is importantour knowledge of sex differences derives mainly from reports of observations that exclude the middle, which exclude the overlap where the sexes are similar. Dozens of studies of sex differences depend on item analyses that dropped the 80 or 90 percent overlap between the sexes to report the 10 or 20 percent male / female differences. Androgyny doesn't require 50-50 distributions in every profession. It suggests that the 80 or 90 percent of men and women who share similar aptitudes be in similar jobs with similar job ladders. There's another important social question that has to do with children and family life. I recently reviewed dozens of studies on the effects of maternal paid employment. With Dr. Mary Howell of Harvard, I believe there is little

evidence that maternal employment by itself will help or hurt children and family life. Instead, we learn mothers who work in paid and unpaid employment, in accordance with their wishes to do so, have happier children and families. That is, it seems better for children and families if parents work where they are happiest—a .cliche, perhaps, but also a profound philosophy underlying the theory of androgyny.

If androgyny is such a reasonable idea, why are we slow in embracing it?

I think it's partly because of deep feelings we all have. You know Pogo's statement, "I have searched and searched for the person who is in my way, and I have found her—and she is me!"

Some of our deepest conflicts come from half-buried feelings, the result, perhaps, of our teaching competition instead of cooperation, of the battle-of-thesexes philosophy that maleness and femaleness are mutually exclusive conditions. For too long, we've believed that men should suppress their tender, nurturant selves, women their rational, instrumental selves.

But as we contemplate androgyny, begin to reorganize toward it, all of us will often be deeply ambivalent, cautious, thoughtful. Power, status, money, security seem to be at stake. But I believe we can reduce our anxieties as we understand ourselves better.

For instance, many research studies show that we build inner conflict into women about success. My own generation of women was taught to fear success in paid employment, taught that it would bring ruin into one's personal life. For example, for a wife to be more creative in the labor force or to be paid more than her husband is a situation women avoid like the plague; and that attitude automatically limits the extent to which they will innovate or seek well-paying jobs.

Therefore a whole generation of modern feminists have taken the issues to be far more "all or nothing" than they need to be. Many of these women have felt that they had to give up men, marriage, and children to gain equality. But is not this accepting an old wrong polarization of issues-career or family, instead of working toward androgyny? (By the way, though, I certainly wouldn't criticize any individual for choices she felt she had to make. For although I believe androgyny is possible, getting there isn't easy.)

How does a woman learn to choose androgyny rather than polarization and militancy? How can we learn a commonality of family intersects rather than a di

Have you had supportive men in your life?

Yes. A brother, a physician, several mentors, and friends—but let me also say I have a most remarkable mother.

Why are men in general reluctant to let women "in?"

Many reasons can be given: Fear of "momism"; the theory that it's unwomanly for a woman to be "show-off." The complaint, "who'll be left at home to look after me?" is still another. Some men fear that if women can create life and also be creative on the job, "what's left for me?" Will I be obsolete? Many men, trained from childhood to repress emotion, find it hard to believe that they are really needed interpersonally.

But there's considerable evidence that these feelings are not characteristic of secure and interdependent men. Many men easily outgrow these early discomforts as success, marriage, and children bring them an identity and security.

Men and women both need chances to grow in all these matters. Many women, for instance, need to outgrow their dependence and to take responsibility for themselves. But many have lacked the opportunity to find themselves and to evaluate themselves in the outside world. As unpaid housewives, they do not know what they are "worth" in our monetized world. As housewives consider entry into the paid labor force, they may feel their "opportunity cost" is zero, and they may undervalue themselves and their skills. The combination of isolation from the monetized economy and discomfort about success leads many women to low self-esteem and also to resentment against men.

Can we dissolve these polarizations?

Polarizations between the sexes and inside us—between our nurturant selves and our instrumental selves—are not right or necessary in the world to come. We are moving toward each other and toward our other halves. I believe both men and women have much to gain from androgyny.

Men learn that their options to sing, to decorate, to garden, to play, to cry, open up huge areas of self once blocked off. Their relations with women become much deeper, much less scary. And their women complain less, as they, too, see what financial responsibility and paid employment are like.

Men on the whole, gain options to love. Women stand to gain equal pay for equal work, and enormously wider opportunities for independence and status and creativity. Women, on the whole, gain options for their work. Wider opportunities to love and to work mean more variety, more interest, more companionship, more joy in the 24 hours of the day. Androgyny means wider choice of both love and work for both men and women.

entertaining). Men got used to being personally taken care of without directly taking care of others. They delegated new caretaking duties to a new female occupation—the office wife.

On the other hand, women got used to being supported. And as mechanized kitchens and packaged products appeared, along with more and more apartments, for the first time in history some women found their only job to be caring for one or two small children.

The right to salaries, to status, to power remained predominantly with men. "Work," meaning paid work," became a male right. Caring and nurturing and loving became a female right. Objective processes, rational thought became man's pride. Subjective, intuitional processes became women's province. We need to break stereotypes in children's books, in newspapers, in the office, on TV—especially on TV, which our children watch so many hours a day.

The androgynous life requires new options for work, new ways, for instance, for shared jobs in the home and out of the home. At a nearby college the first couple to share an academic appointment was really eyed askance. Now, a year or two later, there are many shared appointments. And because work and home are nearby at that college, the couples find it easier to share home and work. Suppose we re-structure work options between husbands and wives. Many families wouldn't change at all; they like their divisions of labor. And of course, in millions of families both parents already work inside and outside the home. In fact, one third of all

family interests rather than a divergence?

We've learned some fascinating facts that can help us. For instance, the old cliche that "behind every successful man is a supporting woman" has, we find, a corollary: For most women, having a true career choice depends on supportive males. Fathers have enormous influence on the careers of their daughters, we find. Male peers, husbands, and mentors are crucial to the career options of the women about them. In this society, an integrated and successful life (combining paid work and unpaid work) is most likely a woman's inheritance from a man. Without male approval and encouragement, most women in our society relapse into the "all or nothing" choice or make unsuccessful attempts at career and family.

But could this all be just foolish idealism?

Let me paraphrase a statement by Catherine Stimpson: An androgynist insists that grief may be lessened or transformed through cooperation and will. We've all seen the tragic vision of culture crushing personality; of power, too often assigned to one sex, running wild into war and corruption; of widespread loneliness and massive human waste. Yet the androgynist assents, silently or out loud, to the possibility that some tragedies will become obsolete.

Page 8, Tech Talk, September 5, 1973



THE GRADUATE SCHOOL OFFICE OF THE DEAN

April 23, 1973

MITWOMEN - Gradents Students Isonors (make file) -

Ms. Mary E. Corcoran 114 Western Avenue Cambridge, Massachusetts

Dear Ms. Corcoran

As you may perhaps know, I am the MIT Liaison Officer for the Danforth Foundation with reference to Danforth and Kent Fellowships. I was delighted to receive the announcement that you have been awarded a Kent Fellowship for the coming year for your special studies in the field of Education and Social Policy. You should realize that this is a very distinguished honor for of all the undergraduate and graduate students at MIT, you were the only one to receive such an award.

I would greatly appreciate it if you would stop in at my office, 3-134 at your convenience, so that I can congratulate you in person.

Sincerely yours

h searce Irwin W. Sizer

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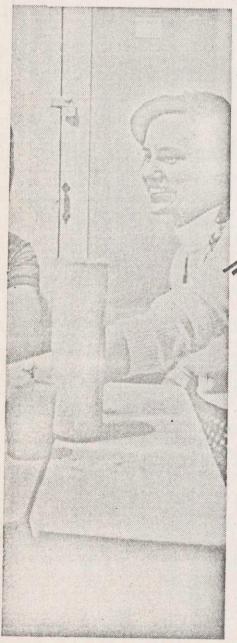
cc: Provost Paul E. Gray Professor Peter S. Eagleson Dean Carola B. Eisenberg "Tech Talk" Dr. Mary Rowe Ms. Jean Richard



ON program, gets credit for her work ldren's room.

(Globe photos by Phil Preston)

escription'



candles in a class at the Charlestown , who lives near the center, and Mrs. rogram which the Junior League of Worcester Consortium, a working cooperative of public and private, two-year and four-year colleges and universities and cultural institutions in the Worcester area as well as cable television.

The intent of the new program is to give degrees for a variety of learning experiences — including work and other experience as well as academic courses — to help older students earn college and university credentials.

Dennis said the majority of the inquiries are coming from three distinct groups:

-Businesses and industries interested in inclusee sabbaticals for continuing enucation.

-Vienam veterans who have special educational needs.

- Won at who are looking for opportunities to return to careers and need new training.

Gov. Sarging expected to name an Open 1 ni e sity task force, representing wide range of in crests, before reveek is out.

Potential students are asking about entrance a degree require ments, tuilion and courses playned for the new state university.

It is the beginning of widely expanded unorthodow higher education in Massachusetts and an oproach which organ urged on the state just wo years ago.

Public open university programs are already operating at free state colleges — Framingham, Salem and Bridgewater — and at UMass-Amherst.

Dennis said they would become part of the state-wide network which would also tie in with private colleges and universities.

He said the new Open University, a name still being used until something better is found, would not interfere with existing continuing education programs.

The university, Dennis said, will develop in response to local needs across the state. Regional advergery councils will be established to et policy and curriculum requirements.

He expects regional centers to be set up in Greater Springfield and in southeastern Massachusetts. The Worcester pilot, because of the existing consortium, is seen as a model for effecting close cooperation between all of the public and private institutions in the state.

Tuition rates have not yet been set, but Dennis predicted they would be based on credit hours.

Muriel Cohen

Wheaton offers students study at Ga. Tech

women

Engineers

MIT-

LAWRENCE DENNIS

... striking a nerve

Wheaton College in Norton, a women's college with 1200 students will join with Georgia Tech next year to offer its students training in engineering.

Wheaton will offer women a chance to spend three years in, Norton followed by two at the Georgia Institute of Technology in Atlanta. Participating students will earn a bachelor of arts degree from Wheaton and one of 16 different bachelor of science degrees in engineering from Georgia Tech.

Women will be trained not only in the major engineering fields but also in management science, health systems, computer science, research and biological information systems.

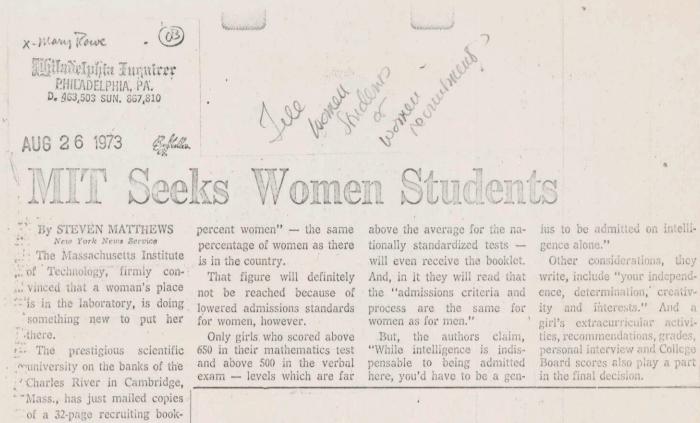
More than 48,000 new engineering graduates are needed every year, according to the US Department of Labor. The market has shown a sharp upswing after a decline several years ago, causing firms to do active recruiting.

Women engineering graduates at the bachelors level receive \$885 a month, the same pay as men. In addition, many firms are offering bonuses in order to attract more women to the field.

Less than one percent of engineers are women, although the entering freshman class in engineering rose to 2.5 percent women in 1971. MIT has the largest number of women undergraduate engineering students in the world — 183.

At an MIT symposium on American Women in Science and Engineering recently, Bruno Bettelheim, professor of education at the University of Chicago, said "we deeply need women scientists and engineers who are committed as human beings and as good workers to their profession, and who are committed to it in line with their female genius."

Phyllis Coons



let to 10,000 high school girls. who scored well on their Preliminary Scholastic Aptitude Tests.

The booklet, entitled "Massachusetts Institute of Technology - A Place for Women," was prepared, according to the joint student - faculty reprimittee that wrote it, because "women at MIT want Whibre women at MIT and more women colleagues in the careers we choose."

》"补妆的M范N AT MIT?" asks athe publication. "It's not as far out as you might think. "Women have been here for more than 100 years."-

Women in the sciences? Yes, says MIT President Jerome B. Wiesner in an introduction to the booklet; "Women have a far greater potential for contributing to the needs of society than cur-rent education and employ-ment patterns indicate, par-ticularly in such professions as engineering, law, medicine, science, management, archieducation." tecture higher

The entire recruiting program was made possible largely because the school relaxed its housing relaxed regulations during the last few years, permitting women to live off-campus and making some of the previously all-male dormitories and fraternities co-educational.

There are presently approximately 500 women undergraduates at MIT out of a total of nearly 3,800. But, school offi-cials say, there are neither goals nor limits to the number of women MIT will accept.

"SOME DAY," says one spokesman, "we might even have a student body that is 51 Education

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W. 115,000

ENGINEERING NEWS

WASHINGTON, D. C.

1973

Efforts to interest women in science and engineering con-tinue. Women at Massachusetts Institute of Technology are mailing recruiting literature to some 10,000 high school seniors, girls who have completed the Preliminary Scholastic Aptitude Tests with scores of 650 and above in mathematics and 500 and above in the verbal test. The number of women attending MUT has doubled in The number of women attending MIT has doubled in the past five years.

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The Institute Woman - A Guide

-Allison Rvan Although MIT has always been open to female students, it has only been within the past decade that women have become a visible part of the college community. But, as with any minority group, the paucity of members creates a problem.

Within the past few years, an increasingly comprehensive recruiting program has been initiated by female students, supported by the faculty and ad- were accepted, they were sent ministration. If, as Dean Elli-

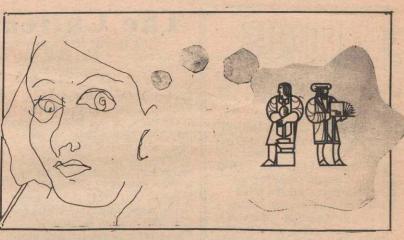
son believes, the small number of women accounts for most of the difficulties they may encounter at MIT, the obvious solution is to encourage more women to come here, and to study in traditionally male-dominated fields.

Last year, for the first time, 10,500 female high students were sent special pamphlets on women at MIT, before they applied. After students letters to urge them to come to

thursday

the university. Once here, the woman finds herself among a group of ap-proximately 500 people out of a total undergraduate population of around 4300. Often she is not recognized as a full-fledged member of the community. In addition, as there is a scarcity of women in many fields of science and engineering, female students lack role models for the work toward which they intend to study.

continued on page 7



mit's independent community paper

Vol. 6, No. 2

Mass Executions Reported in Chile Cambridge Plots New Rent Increase Plans

FIGS page 2

& ITT Protested

About two hundred demonstrators protesting U.S. involve ment in the recent Chilean coup d'etat rallied last Friday in front of I. T. T. headquarters at 99 Chauncey Street, and then marched to Government Center and finally to the Common. The demonstration, organized by an ad-hoc coalition of Boston area groups, had no obvious leadership. It was spontaneous in its actions, sometimes seeming disorganized.

During the march from Chauncey Street to Government Center the demonstrators occupied half of Washington Street, delaying traffic. However, only one policeman, standing in a doorway, was noticeable. From talking with the demonstrators it was obvious that nearly all believed that the United States had been involved with the coup. However, the extent to which people thought there was involvement ranged from direct CIA planning and military aid to the more indirect attempts at economic sabotage of Chile, leading to the coup.

There was some evidence to support the idea of direct U.S. involvement. Just before the coup, the U.S. Navy appeared off the coast of Chile, ostensibly to join in maneuvers with the Chilean Navy. The American Ambassador flew to Washington for three days of consultation with Henry Kissinger and other officials, returning to Chile in time for the coup. Considered in the context of recept U.S. -Chilean relations : I. T. T. 's now well known efforts to depose the Allende government; American vetoes of all international bank loans; increased aid to the continued on page 3



Junta Faces Armed Opposition, Thousands Jailed or Murdered --Brian Tokar and prisons. He also advanced the

A reign of terror has been launched in Chile following the military takeover of the govern- All the players agreed that the ment last week. News reports from Chile and elsewhere have indicated that over 10,000 people have already been killed by the junta. Santiago has also been the scene of book burning and an organized campaign of

anti-Semitism. Reporters talked to members of the Chilean soccer team rio, which is close to t

Jonathan Weiss figure of at least 10,000 dead, based on ."what I have seen and what my friends have told me." resistance was continuing.

In Santiago, the only two newspapers which are allowed to publish (both right-wing) in Chile, El Mecurio and La Tercera, began a campaign of anti-Semitism. Timothy Ross reported on the Canadian Broadcasting Corporation that El Mecune junta

If you live in a dorm, you are used to a rent increase every year. If you live in any of the hundreds of MIT-owned Northgate apartments around Cam bridge, you know that these have been officially declared 'dormitories', and suffer the same habitual increases. But if y ou live off -campus your rent won't go up; you're under rent-control, right?

Well, the Cambridge Rent Board, not satisfied with their major across-the-board increase of last year, is now considering further actions(ie., increases) to assuage complaining landlords

In August the Cambridge Rent Board passed several new major regulations against tenants. For example regulation 70-06 which, although it states that 'no owner shall be permitted to ask for or receive any rent in excess of the level... established in a thenexisting lease,' recognizes so-called 'open-ended leases'. Such leases read something to the effect: 'Your rent will be \$150 a month or whatever is the amount determined by the Rent Board'. Thearetically, if the Rent Board raises your rent, you can break the lease with 'proper notice'-but where will you go in the middle of the winter?

Now, the city is considering another across-the-board increase, to require tenants to

'absorb' a property tax increase. Although this particular in -

-Josh Klayman \$1000 assessed valuation), the idea of simply passing tax bills on to the tenants threatens to establish a dangerous precedent.

September 20, 1973

The Cambridge Tenants Organizing Committee (CTOC) has stated that the notion of passing-on rent increases means that tenants will again be told to pay higher rents while real es tate interests pay no property tax at all to the city. For some people, this will be the third rent increase within ten months. 'Owners who own property should pay property tax on the property. CTOC also reports that the

New to Cambridge? See "Rent Board Rampages -A Recent Background" published by the Cambridge Tenants Organizing Committee. page 2

Rent Board is now allowing landlords to take a portion of all the increases passed during the former rent control administration of William Corkey that were ruled illegal by the courts in 1972. Landlords are asked to make proposals of settlement to the tenants who deducted the illegal increases. If the tenants do not accept the proposals, the staff of the Rent Board will determine the retroactive rent, and tenants may be faced with a large bill. (If this should happen to you, you can contact

Tommorrow, September 21, there will be a TEACH-IN on CHILE at Lowell Lecture Hall, Harvard, at 7:30 PM. Speakers will include two people who have recently returned from extended stays in Chile, Paolo Stringini and Andrew Zimblast, and Professor James Petras, author of several books on Chile and Latin America. The moderator will be John Womack well known author and historian: A Chilean film-CAMPAMENTOwill also be shown, depicting a militant barrio in Santiago, Nueva Habana, which was leveled by the junta in their coup d'etat. Admission is FREE.

on its way to Moscow for the World Cup Game (Prensa Latina which issued the report, indicated that the team was being sent to give the appearance that ever ything is back to normal in Chile). One player said that workers who dug trenches outside of factories and resisted with arms were machinegunned down as the military took over the factory. The player, who asked not to be identified, said that snipers had killed nearly 2,000 soldiers in clashes throughout Santiago. He related one incident in which busses carrying policemen in a Santiago suburb were ambushed; most of the police could not get out of the busses and were killed. Another player said that the strength of the resistance surprised everybody, including the army. President of the Chilean Soccer Federation Francisco Fluke reported that 21 members of the Popular Unity Coalition had been transported to an island prison. Many soccer stadiums have been converted to

crease will be small(\$3.50 per CTOC for help.) continued on page 3 More is Less - A View of Phase n

Nearly everyone has felt the effects of the continued inflation and shortages that have marked the Nixon era. Conservative economists bemoan government interference, Liberals decry unchecked monopolies. Meanwhile the government tells us to eat less.

However, there are other views of the situation that have not gotten quite as much exposure. For example, at the Militant Labor Forum Marxist economist Dick Roberts analyzed the current inflation. His speech was prefaced by a lengthy analysis and denunciations of the recent Chilean Coup d'etat. Roberts urged Americans to politically aid the political refugees who are being executed in that South American country.

According to Roberts the dollar is faced with is its use as a "counter cyclical" device

in the U.S., a job neccesitating great flexibility and the need for a stable dollar internation ally. This has led to repeated devaluations as a solution. Roberts blamed high military spending as the chief culprit behind inflation. The dollars that the government prints for military products don't correspond to socially needed items, hence the balance between commodities and the value of currency shifts toward inflation. Inflation staves off recessions by stimulating investment especially in the military. Another anticyclic device that can be controlled is the rate of interest.

On the other hand, there are recessionary devices, which the government can also use. Nixon did this in 1969-70 when he cut back half a billion dollars in the war budget. The effect was to put millions out

of work while heading off a boom which could have resulted in a crisis of over-production. Overproduction would mean a more out of control recession or even economic collapse.

Thus Roberts said the American people are faced with the prospect of permanent inflation. He claimed that the worst was yet to come, citing last months whopping 26% rise in wholesale food prices. Earlier this year he predicted a doubling in prices by 1974. "Although there is no solution to inflation except socialism' Roberts claimed the 50 million who participated in the meat boycott demonstrated the rage of the American consumer when faced with a shrinking pay check. Roberts then enumerated an anti-inflation program which would lead Americans to socialist consciousness.



page

1973

20,

september

Thursday

by Meredith Porter

In Chile, official spokesmen for the junta headed by Gen. Augusto Pinochet warned that "foreign extremists" caught resisting the government will be tried by military courts "acting as war councils". Conviction could bring the death sentence. Since last week's coup, a spokesman said Tuesday, there have been 4700 arrests, while 95 per-sons were killed and 300 wounded. The junta claims the coup was staged because of government plans to as- . sassinate opposition leaders.

The United Nations voted unanimously Tuesday to admit both Germanys to membership, after Israel had objected for the record to the entrance of East Germany. Israel had asked for a separate vote on each state in order to vote against the German Democratic Republic, which has never acknowledged any moral responsibility for Nazi war crimes.

A Civil Service Commission Examiner ruled Tuesday that the Air Force was wrong in firing Ernest Fitzgerald, the contract expert who revealed a \$2 billion cost overrun on the C-5A cargo plane. The examiner held the firing improper, but rejected Fitzgerald's assertion that it was in retaliation for disclosing the cost overrun, maintaining instead that "unjust" publicity had made Fitzgerald controversial and a "personnel problem". Unless the ruling is appealed, Fitzgerald will be reinstated as Deputy for Management Systems and given back pay.

Former Attorney General John Mitchell and former Commerce Secretary Maurice Stans are trying to subpoena White House records and tapes concerning discussions about financier Robert Vesco, it was learn-ed last week. Mitchell and Stans are charged with obstructing a Securities and Exchange Commission investigation of Vesco and lying to a grand jury about it.

The Chilean Failure

"A REVOLUTIONARY SOCIALIST ANALYSIS"

--Evan Siegel As of this writing, this much is clear: the Chilean military has overthrown the elected Popular Unity coalition and is currently carrying out a mercyless bloodbath against all leftists, militants of the peasants, worker, and student movements, and refugees from the infamous torture chambers of Brazil, Bolivia, etc. This is the upshot of the latest experiment with the peaceful road to socialism'. Those of us on the left are dutybound to defend the victims of this "upshot" and, moreover, to draw lessons from it.

The Allende regime was elected on September 14, 1970. Sweeping reforms have been implimented, including a general pay raise of over 35%, the nationalization of American copper mines, free milk for children, the disbanding of sections of the police, the freeing of im-prisoned revolutionaries, the redistribution in one year about as much land that the Christian Democrats under Frei redistributed in five years, etc.

But, for all this, the Allende regime shackled itself. The following list gives an indication of the results and causes of the shackling:

l. In order to break the grip of the foreign exploiters, a state of monopoly on trade is needed. Never in Allende's three year rule was such a step even planned.

2. The spectacular copper nationalizations were compensated. Although Allende refused to pay the half-billion dollars that the seized mines were valued at

Attend a FREE speed

reading less

(not as a matter of principle, but because of the "excess profits" that they wrenched out of the sweat of Chilean workers). Allende wound up paying \$700million dollars for the debt these companies accrued in their pillaging of native labor. Furthermore, while the factory's book value is payable in long-term, low interest installments, the debts are largely owed to banks which charge a much higher rate of interest. As of 1972, Chile owed the imperialist countries half of its GNP; meanwhile Chile's dollar reserves plunged 70% from 1971-72. Allende's answer? "There is no possability that Chile will repudiate her foreign debts unless a situation is created for us with nonormal renewal of credits and no new input of capital", said his minister of economics. That is, un-, less we go bankrupt, we will pay our debts, Some anti-imperial-ism! Incidentally, the entire Chilean parlement supported the

copper nationalizations.

3. A 1972 article in the International Socialist Review pointed out that no oil or drug firms had been touched. The same holds for GE, GM, Gillette, and RCA. The notorious ITT had been promised "joint ownership" with the state, a common device used by "anti-imperialist" leaders to hide foreign exploitation. 4. Domestic repression. Examples are the cop-killings at Conception, when the Communist mayor ordered the breaking up of a leftist demonstration, and the putting down of strikes in the "social sector" of the Chilean

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continued on page 7

Rent Board Rampages

--Alan Cohen (CTOC) Since the Rent Board first decided on the across-the-board (67 + 30%) rent adjustment, the lives of Cambridge tenants have become more difficult. First, tenants who felt that the 1967 levels regestered by the landlord were incorrect or that there were substantial code violations were told to challenge the notice of increased rent by returning it to the Board and aly the hearings never came while rent for the apartment was. the tenants were and still are told to pay the increases and await hearings that will never

The Board made little or no effort to enforce the regulation subjecting landlords that failed to register the 1967 rent levels to a 10% decrease in the amount of rent they could ask for. The Board made regulations that prevented tenants living in buildings bought after 1967 from getting rent decreases.

to file for individual adjustment hearings. Employing a formula whereby tenants are forced to pay for the entire burden of prop erty taxes, insurance, repairs, management, etc., increases are almost guaranteed.

Fifty-and hundred-dollar imcreases are reported. At a recent Rent Board meeting, tenants in one building were made to pay for half the cost of an \$800 study done by a private firm for the wait verification hearings. Most- landlord'to determine what a fair Tenants challenge individual adjustment increases on the grounds of poor service and health code violations but in order to get their increases, all the landlords have to do is to make surface repairs of conditions that may have been intoler -able for many months. Three of the Board's five members vote consistently to allow this practice. Along with the landlords on the board, Fred Cohn and Paul

ent decreases. Watkins, Chairperson Alan The recourse for landlords who Lefkowitz' third vote usually helps did receive decreases or smaller constitute the majority opinion. increases than they wanted was



Editor:

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It is amusing how leftists are comfortable on both sides of an issue if it will advance their cause. If one of their speakers

were suppressed, we would get an eloquent defence of free speech. They retain the "right" however, to ignore free speech when disagreed with (remember Prof. Bronfenbrenner last year?). Now we're told that Allende's overthrow is democracy's loss. Aren't these the same people who advocate over. throw of governments with which

they disagree? The people Thursday represent aren't concerned with free speech or elec-tions. They're concerned with keeping the likes of Allende in

righteous indignation in check; it's not convincing. Edward M. Dunn

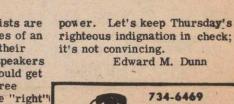


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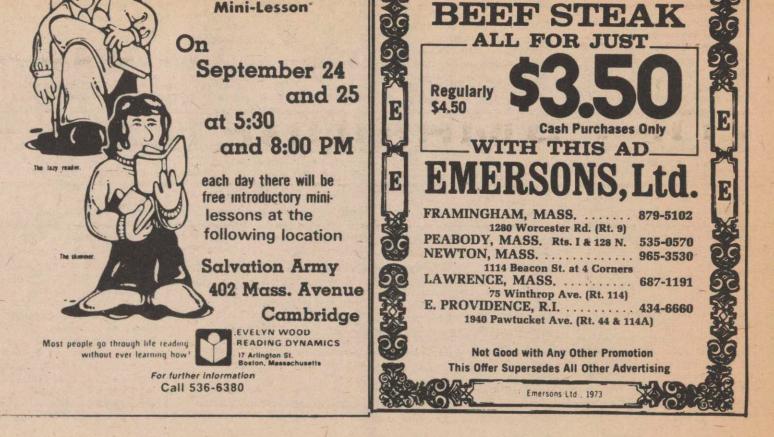
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Lusciously Tender



A federal judge Monday ordered IBM to pay \$352.5 million in triple damages to Telex Corp. for monopolizing the market for peripheral devices in the computer industry. At the same time, he ordered Telex to pay IBM \$21.9 million for misappropriating trade secrets obtained by luring away employees. IBM was enjoined from collecting penalties for cancellation of long term leases, which were offered at lower prices in an effort to fend off competition, and from charging package prices for central processors and memory devices. The Justice Department, in a civil suit awaiting trial in New York, is seeking to break up IBM, which last year was ranked fifth among U.S. corporations, with assets of \$10.9 billion.



Chile Refugees, Leftists Face Death

continued from page 1 prominently published a letter to the editor attacking the "Jewish-Communist conspiracy" and calling for "a Jew hung from every lampost." Ross also reported that the police had been entering bookstores and libraries, removing books dealing with sociology, history, and other topics, as well as, of course, all leftist literature. There have already been public book burnings.

Two Venezualan doctors, just returned from Chile, said that the situation in the poor workers' areas of Santiago is extremely dangerous, especially for children, due to lack of sanitary services, medical assistance, and food. One of them Dr. Lennon Molina, said that the capital city was in a state of disaster as a result of the bomb ings which the junta had carried out. The Cuban ambassador to Chile, who was allowed to return to Cuba last week, accused the military of using napalm in the industrial outskirts of the cities.

Reports have continued to emphasize the persecution of foreigners. Mexican correspondent Miguel Mijtio, who was in Chile last week, affirmed that foreigners were being denoun ced as subversives just because they are not Chilean. Planes have been dropping leaflets urging people to help find foreigners. All foreigners in Chile are now required to report to the police and are threatened with deportation. The Chilean embassy in Washington has identified 13,000 foreigners as being in Chile illegally; in fact, the junta justified the takeover because of the thousands of "foreign subversives" they claim are in the country.

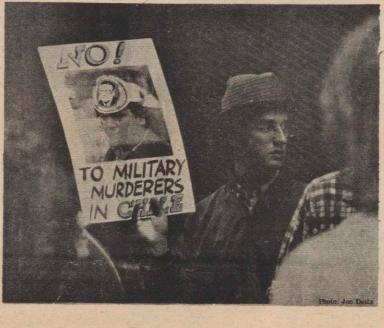
Actually, most of the foreigners being threatened are exiles who fled from the vari ous right-wing dictatorships throughout Latin America. The Al lende government was sympathetic to the refugees and provided asylum. However, under the new government the lives of all foreign citizens are in serious danger. International News Service reported last week that those who are shipped back to Brazil face instant death on arrival. Foreigners are also being killed in Chile itself. A Venezualan student was shot to death by the military when he refused to run for his life (fearing that would be a pretext for shooting him). Other reports indicate that 300 exiles were killed last week.

An effort has been launched here and abroad to prevent an "Indonesian solution" from being applied to Chile. This is a reference to a campaign that occured in 1965 after a CIAsponsored coup overthrew the Sukarno government in Indone-sia. Following the coup, over

lettist leanings were murdered in an attempt to eliminate all resistance to the new regime. In Chile during the past few months, editors of left-wing publications have been receiving small printed cards, inscribed "Djakarta will come."

Petitions have been circulated asking the U.N. to act against such possibilities. Over 100,000 people demonstrated in Rome. The World Council of Churches and Amnesty International have made the saving of lives in Chile a top priority. Five Nobel Laureates from the Boston area, including George Wald and Salvador Luria, are speaking to Kurt Waldheim,

trying to get the Secretary-General to call an extraordinary session of the U.N., an especially urgent task in view of the fact that Argentina, Peru, and other countries have said that they would provide asylum for foreign refugees if asked by the U.N. An advertisement is planned for the New York Times by the North American Congress on Latin America. The ad quotes one of the secr et I.T.T. memoes from Sept. 17, 1970: "A more realistic hope among those who want to block Allende is that the swiftly deteriorating economy...will touch off a wave of violence, resulting in a military coup."



CIA, ITT and Coup

continued from page 1

Chilean military by the Pentagon; the conclusion that the U.S. was involved is not at all surprising.

The marchers had responded to a pamphlet distributed at most Boston-area campuses by the Hands-Off Chile Coalition Their demands included the following: 1) an end to U.S. interference in Chilean politics. 2) cessation of all U.S. military and police aid. 3) no diplomatic recognition of the new dictatorship. 4) complete congressional investigation including first hand visit to Chile and public disclosure of all the facts. 5) no interference in the Chilean economy by I. T. T. and other U.S. corporations. 6) U.S. guarantee of the safety of all political prisoners and exiles in Chile

Socialist and Communist groups were well represented; various signs and newspapers called out the names of Spartacus League/RCY, Youth Against War and Facism, Young Socialist Alliance, Revolutionary Union, Young Workers' Libera-

particular affiliation. At times it seemed like a get together for the campus radicals who are still around.

The demonstrators seemed lively and concerned. Chants, ranging from "CIA-ITT, Hands Off Chile" to "Que Viva Socialismo," were frequently heard, sometimes accompanied by clapping. During one chant, an elderly passerby yelled "It should be 'Impeach the President"". Signs carried included "Support Anti-Imperialist Struggles" and "For a Workers and Peasants Government; For Total Expropriation of the Hacendados and the Bourgeroisie."

At Government Center, a picket line was set up, in anticipation of the 5:00 exodus of office workers. As the line moved along, a young woman was observed interviewing bystanders, some of whom were supporters of the demonstration. She turned out to be doing a survey for Domestic Research Company (not listed in the Boston telephone directory) on consumer preference in Union, Young Workers' Libera-tion League. However, the bulk particular interest in Right

"Non-Aligned" Nations Still out of Alignment

--Jonathan Weiss The fourth conference of the world's so called non-aligned nations ended last week in Algiers with a message for the rest of the world. What exactly the message was, and who agrees with it are still not quite clear.

The sole criterion for menibership is non alignment with any of the big powers. Members cannot have military treaties with the United States or Russia, for example. Nevertheless, the conference did include nations such as Cuba, the Progressive Revolutionary Government of South Vietnam and of Cambodia on the one hand, and on the other, Bolivia, Brazil, and Malta. A few disputes marred the

unity of the conference. One of the major disputes erupted toward the end of the conference. as Cuba, represented by Fidel Castro, attempted to stop Bolivia and Brazil from speaking because they were allies of "American imperialism." A com-Bolivia and Brazil to speak and Cuba to respond; following the two speeches, Castro, (who had previously threatened to walk out) decided not to speak. All in all, the dispute was only newsworthy because Premier Castro was involved. Although many heads of state attended, there were quite a few conspicuous absences. King Hussein of Jordan decided to stay away from Algeria, a country which has given much support to Palestinian guerrillas who are sworn to overthrow him. The head of Singapore never came because of objections to the admission of Malaysian rebels as accredited observers. Lebanese President Sulereman Fran-

jiek stayed home, still smarting from Tunisian criticism of his handling of the Palestinian guerillas, and Morocco's King Hassan, a sworn enemy of Libya's Colonel Qaddofi, stayed in Rabat. The late Chilean President Allende remained in Santiago to deal with "pressing and urgent matters in my country.' Malawi's entire delegarion did not show up wishing to avoid a searching examination of their friendly dealings with South Africa.

With so many absences, the conference seemed to lack a certain authority. Although it made front page news, as any conference of seventy six member nations would, there was a feeling of deja vu, as though the speeches were reruns of the last conference. Yet, despite

verbal dueling of a number of members, especially Castro and Qaddofi, the conference finally reached some decisions. Most important as the ass

was the assertion of control over all natural resources all natural resources, including Thursday those up to 200 miles out to sea, with the right to nationalize foreign holdings and determine compensation. To reduce dependence of the big powers and institutions, such as the World Bank, a development fund was founded, financed by the rich, oil producing states and controlled by the non-aligned nations, A declaration of support for anticolonial African liberation movements was backed up with the creation of a fund to finance their activities. Israel was condemned for refusing to withdraw from occupied territories. A call was issued for general world disar-mament and the end to the building of nuclear weapons.

Yet, even with these decisions. the major problems before the promise was worked out allowing conference went unsolved. There was no agreement on what constitutes a non-aligned nation, although it was probably the hottest issue of the five days. There was no concrete delineation on what relations between the "third world" and the superpowers should be like, although this is the original reason for the conference. And even on the dec sions that were reached, there was pessimism. In a speech which shook up the entire conference, Colonel Qaddofi asserted, "I accept your resolutions. but I also know in advance that they will not be implemented.'

> As the conference closed on Sunday, President Houiri Boumediene of Algeria, in his final speech, summed up the attitude of many of those attending. He issued a warning to the big powers that the non-aligned nations must be included in all decision-making. However, Colonel Amin of Uganda may have hit an even more responsive note when he exclaimed "I am having a lovely holiday.'



500.000 people suspected of

of the demonstrators were of no Guard. Right On!

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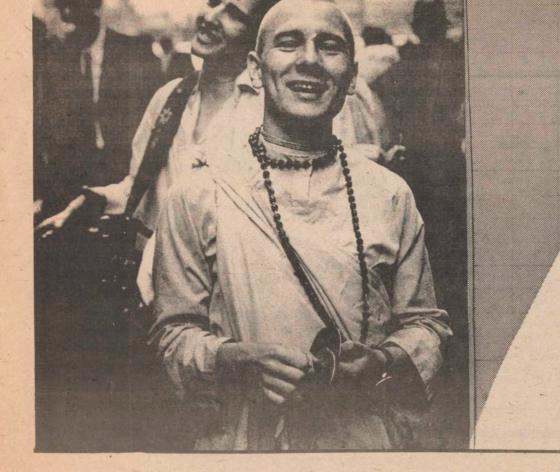
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eodore author of **Venus Plus X** ... and MANY more **Better Than Man** 66 · SIMM uestions?" HREE 8:15pm Kresge Mon.

presents



Very satisfied with that, she was. Through the straight dark hair that left little of her face to be seen, she looked like she felt her revelation to be of epic proportions. With a quick move of her hand, she brushed her hair from her eyes, and she then looked directly at the man, waiting for him to say some-



thing. He appeared to be uncomfortable, and he looked around, avoiding her eyes. He gave a small nervous laugh.

"The other day, I was walking down 34th street, and there was this whole group of Hare Krishna people dancing and singing. You know, the way they do that, all jumping around and playing their tambourines and drums and things like that. I thought they were making a nuisance of themselves, making the sidewalk even more crowded than it was, and creating quite a ruckus at the same time. I was really annoyed at how happy they looked about it, as if they were glad to be disrupting the normal flow of events, and then one of them came up to me. He was indistinguishable from the rest of them in appearance, with the same shaved head, bleached face and pasted-on smile. And he asked me if I wanted to have some incense. He was carrying packages of

al

k

incense sticks, and he asked me if I wanted to have some. I told him I really didn't need any, so he asked if I wanted a piece of candy, and he showed me some fudge, and it looked fairly appetizing, so I took a piece. As I popped it in my mouth, he asked if I wouldn't perhaps like to contribute some money to his organization, I don't remember the name, it was something Indian; anyhow I told him I really would rather not contribute any money to whatever it was but thankgs a lot for the candy, and he kept smiling and didn't say anything but I think he was a little upset. And I went on my way, and I was feeling pretty good about the whole thing."

He paused for a drink, and the woman was watching him with her head tilting to one side, and her mouth slightly open. She kept staring right at him, and he kept avoiding her stare with his eyes.

"I had gone about a block when this

really wanting it, but I didn't know what else to do. I half expected him to ask for some money or something, but he just kept smiling and said 'God loves you,' and he walked over to someone else. So I went on my way. Later, I glanced through the pamphlet, and threw it away. I mean, I go to church, I shouldn't feel guilty."

He looked at the woman, and she said, "I know some really nice Jewish peo ple."

He looked away again.

"Later the same day, I was walking back down the same block, and I saw the Hare Krishna people still there dancing. I was going to do my best to avoid them. As I was going towards them, a well-dressed young man approached me and said, 'Excuse me, sir, but have you heard about Scientology yet?' Well, I had heard of Scientology, but I was in a hurry so I told him I really wan't interested and I kept walking. He kept up with me and said he thought I should look into Scientology, and there was a Church of Scientology just around the corner, why didn't I just stop by for a minute? He wasn't being pushy or anything, in fact, he seemed quite friendly, he was smiling the whole time he was talking to me. So I stopped, turned to him, and said it sounded interesting but I really didn't have the time right then to stop and go look into it. He said that was quite all right, and he took some kind of ticket out of his pocket and gave it to me. It said, 'Free. Free admission to the Church of Scientology.' It had the address and times that it was open. I thanked him and put the ticket in my pocket, and started to leave, but he said if I had just a minute he could tell me some things about Scientology, if I would listen. I told him again that I had no time, I had a long day, and I just wanted to get home, and he said that I could find inner peace through Scientology and not have to be rushing around so much trying to find it. Now I was getting annoyed, and I walked away, saying 'Thank you' to him. He started

to follow me.

"I had just gotten past the Hare Krishna people, and the Jesus freak went up to the Scientology man and said to him 'Do you know that Jesus loves you?' At this point the Scientology man stopped and asked the Jesus freak if he had heard about Scientology yet. The Jesus freak started to say some thing, but I was already getting away from there so I didn't hear what else they were saying. I did see that one of the Hare Krishnas had gone up to them as they were talking, and apparently offered them some incense and candy. As I lost sight of them, they all seemed to be arguing, quite heatedly. And, all of them had stopped smiling."

The woman appeared to be listening to him intently and from time to time she would nod her head, to show that she knew what he was talking about.

"A bit later on, I came to a big truck, with a message painted on the side: "Who is Guru Maharaj Ji?" There was a young girl standing in front of it giving out pamphlets and talking to people. There was also a man talking. They seemed like nice people, they were smiling and they looked friendly. I was careful not to get too near to them, and I managed to get past without getting accosted.

"On the next corner, there was a man giving out advertising cards. He was just giving them out, not saying anything. He looked kind of unhappy about the whole thing, and he was rather dusty looking. I took one of the cards. It said, 'Massages, Swedish and French style, also nude models, male or female, private sessions.' It had vague pictures of naked women, and gave an address, phone number, and price list.

kid, who must have been 18 or 19, with long hair and a big smile on his face came up to me and said, 'Do you know that Jesus loves you?' I didn't know what to say, and I stood there wondering what his angle was. He seemed to be what you'd call a Jesus freak or something like that, I guess. He looked very clean and I noticed he had extremely white teeth. He kept looking at me, and I was ready to walk off, but then he reached into his pocket and pulled out a bunch of pamphlets, and he pulled one out of the bunch and handed it to me. It was small and folded in half to make a four-page folder, and it had a colorful cover with a drawing of a man thinking, and the words, in big red letters, 'What can God do for me?' Underneath that, it said in small black typewritten letters, 'The Truth about Jesus,' and the whole thing looked vaguely familiar. I took it from him, and put it in my pocket, not

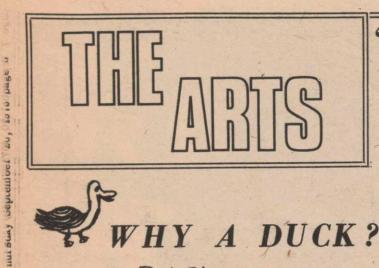
"I put it in my pocket."

He looked at the woman directly, and she brushed her hair away from her eyes. She was smiling.

"You know, my next door neighbors are Vegetarians," she said.

The man gave a small nervous laugh, and had another drink.

> Redeeming Social Value - Period! by Larry Appleman



When thinking about a column for this week, I wanted to do a couple of albums that should be avoided at all cost because I really wanted to pan this week. But while I was leafing through the B.A.D., I saw an add for Elton John's concert next Tuesday night. Then I found what I was looking for. Having previously gotten tickets and thinking I was very lucky because I had presumed that it would be sold out immediately. I was shocked to still see the concert advertised less than a week before. Then driving over to do the article, I heard "Saturday Night" on the radio and realized why the concert was in realative trouble. Elton John had turned into a "teenage idol"who would have fourteen-year-old girls hugging their AM radios. Even if he had warts under his fingernails or pimples on his teeth, his yellow lame" suit and silver boots with stars on them more than make up for it. Along with his four hundred pairs of eye glasses (one of which is the spelling of ELTON - seeing thru the L and the O), he comes on as the prepackaged, ready for use, teenybopper, bubblegum salesman.

Elton John had a relatively good breakthrough into the record business with "Your Song" and the album Elton John which was a flowing, melodic and a quite beautiful album aside from the lyrics which tend to be shallow. He then had Tumbleweed Connection which was his best album to date. His style at this point is flowing, well arranged, easy listening, and relatively well played with some delicate piano parts. The music was soft rock at its finest with gospel, country folk and other touches intermingled to produce a unique sound that led to his rapid ascention of the pop music ladder.

He is physically small, demure, Not, me's got two tickets to sell.

by Bob Zimmerman and looks as if the wind would blow him away if he didn't hold onto a telephone pole. At this point he is a bit gaudy in his dress but definately not overpowering.

After the relative flops of 11-17-70 and Friends, enter Madman which is the start of the top 40's essence (Holland-Dozier-Holland's"Band of Gold) that did not pervay the other albums. The lyrics which were previously lacking in this album merely occupy Elton's tongue while he plays. Enter Honky Chateau which is a refreshing change of style but still has the increasing tempo. But then comes the climax of this decline: Don't Shoot Me. With⁴Crocodile Rock," a parody of a 50's rock song and Daniel," a bubble gum classic in the annals of history with "YummyYummy, Yummy I HaveLove In My Tummy" and "Sugar, Sugar." The portfolio is really great if you want some thing to laugh at. He is in the most foolish clothing I have ever seen. His music has become pure shit to match his lyrics. Any talent has gone into hibernation and the "I Want To Be A Teenage Idol" (which should be both the title song and the title of his autobiography) part of Elton John is into full bloom. As if that travesty wasn't enough, enter"Saturday Night" with its mumbled lyrics (they are also not applicable. He looks like a female transvestite rather than a motorcycle rocco) banging piano, reminiscent of and the insane chant of Saturday, of garbage for Elton John or at least the musician he used

to be. If he is going to play sons like Crocodile Crock and Saturday

'Cuckoo's Nest' Blends Drama, Comedy

We all have felt the frustrations caused by the necessity to obey rules and regulations that, as we see it, alter our modes of behavior in an undesirable way. Unfortunately, in a modern complex world it is often difficult to clearly see the methods and effects of our society's repression. Cinema and theatre can simplify the issues involved by use of allegory; they have often done so by describing the non-conformists individual struggle against the "system". The production of One Flew Over the Cuckoo's Nest now playing at the Charles Playhouse is both powerful drama and devastatingly funny comedy. It deserves to be ranked with the brilliant movie Cool Hand Luke as one of the better artistic treatments of this subject.

A ward in an insane asylum is the scene for confrontation between a wise-ass, life-loving, new patient, Randle Patrick McMurphy and a dictatorial, castrating head nurse, Miss Ratched. Nurse Ratched's de-

humanization of patients, aides, and doctor alike has reached an advanced stage when McMurphy appears to challenge her power. McMurphy's zany antics and his attempts to restore human dignity to such patients as the supposedly catatonic, giant exfootball player, Chief Bromden, who pleads, "Make me big again", capture the hearts and minds of the theatre audience. McMurphy's irreverent behavior, exemplified by his organization of a basketball game with a human basket, provoked hearty and even joyous laughter, and when McMurphy rallies the patients to his cause to thwart Nurse Ratched over such seemingly trivial issues as the right to watch the World Series the audience both clapped and cheered.

The effectiveness of "Cuckoo's Nest" rests in the use of clever stage techniques and the careful manipulation of an amusing assortment of weirdo patients. Off-stage recordings of Chief Bromden's thoughts enabled the play to deal in a

serious, sensitive and moving manner with such important issues as the human fear of the all powerful, incomprehensible establishment, which Chief Bromden sees as the "combine". 'The activities and well executed one-liners of the patients, from the slobbering vegetable, Rudley, to the continually hallucinating Anthony Martini, supply an excellent background for the main action of the play.

The performances of the cast were on the whole excellent, though I did find Michael Cavanaugh's performance of McMurphy to be somewhat below par. Cavanaugh often came off as the swaggering braggart-the weak type who's all talk and no action--while McMurphy should be seen as a man of incredible strength who defies the powers that be even if it means his own destruction. It is the weakness of Cavanaugh's performance that makes this production of One Flew Over the Cuckoo's Nest excellent rather than brilliant.

--Frederic S. Mishkin

Classics: Cheap Entertainment

I'm going to be doing a'classical" music column (classical is in quotes in deference to the cognoscenti; cognoscento is defined as one who has taken 21.07) - Boston is, of course, the Hub of the Universe and is full of music ranging from cliches (the BSO doing Till Eulenspiegel again) to the esoteric (the Boston Camerata in an Elizabethan Evening) to garbage (the Museum of Fine Art's Music Here and Now series). Here is some random information on getting in on some of this, cheap:

Rush seats (nothing to do with IFC)---the BSO sells leftovers for a dollar two hours before concert time. Go EARLY and get in line. Open rehearsals are good, too. They cost about \$3.00 anywhere in the house. my little brother (who can't play) Or, become a music columnist. The Boston Camerata plays Saturday, etc. What a crock of shit! It would be a good song for Sam and the Clutchers or The Nuclear Banana, but a real hunk Theater. Haavaad. Their sea-Theater, Haavaad. Their season starts at Christmas and they're always looking for people Pops, however, and WCRB at

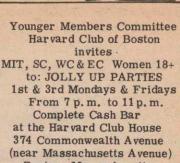
to take tickets and count heads, the concert for nothing. It's well outlet, has several very good worth it and there are always some girls from Simmons or Wellsley doing it too. For more information, call the MFA musical instrument collection. Check on Museum "Gallery Gigs" as well.

Records---There are infinite record stores in Cambridge, all with essentially the same riches and occasional sales. The best idea is to save your money until the day after Christmas and then splurge at the Harvard Coop 50% sale.

Sheet music--- Briggs and Briggs (Hrvd. Sq.) is good, especially for recorder and choral music. There are also many stores near the Boylston MBTA stop in Boston.

Radio---WCRB AM and FM is the full time music station in Boston, except for Saturday night after the BSO. (approx. 10:30), But WCRB Saturday Night should not be missed. Table at

to take tickets and count heads, Drive Time should be avoided etc, for the privilege of watching at all costs. WGBH, the PBS programs, particularly Norning Pro Musica, daily (Mon. -Sun.) from 7 - 12AM and the King of Instruments, an organ program. WBUR has DeKoven on Sundays, a rather interesting eccentric, and The Koussevitsky Legacy devoted to recordings made by Serge Koussevitsky with the BSO. There are random other options, perhaps to be enumerated in a later column. --Louis Cohen



Boston, Massachusetts

FOR A GOOD NIGHT'S SLEEP SLEEP ON A WATERBED. FOR A GREAT NIGHT'S SLEEP SLEEP ON A

H.S. Confidential

The Acapulco Gold Rush is a group of five films, shorts, and cartoons highlighting some of the evils of marihuana (those being fat and politics). The show opens with a Betty Boop cartoon, which is pretty much like all Betty Boop cartoons; I find them constantly amusing.

Next comes "Notch #1", a Western made in 1926. It's a silent picture and one only wishes that more of the obviously hilarious dialog appeared on the ren, Jerry Lee Lewis, Jackie screen. The plot is rather simple: the villain on the ranch gives the owner's daughter's boyfriend some marijuana cigarettes. The number two man on the ranch finds them and takes them away (to smoke?). The young, naive hero finds him- dialog it comes surprisingly self alone with the pot and proceeds to smoke 8 or 9 joints. The ensuing surprise is best left a surprise forever.

'Airplane Glue I Love You" is just what it appears to be the story of an airplane glue freak. Only this one is 27 years old and in the sixth grade. He soon has the truant officer sniffing and tries to make it with

his teacher. His former life as a model designer married to a bearded lady is revealed through the flashback technique. This picture alone is worth the admission price.

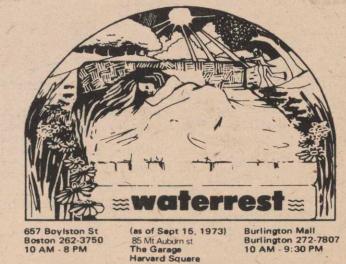
A short Army training film about WACs and physical fitness makes it clear how we won World War II - great ankles.

Finally, the main feature. "High School Confidential", with a cast including Mamie Van Do-Coogan, Charles Chaplin Jr., and John Barrymore, comes on. Knowing the secret behind the film diminishes the fun, so don't read the handout about it until after seeing the movie. Watch it carefully - if you update the close to the high school of today. The chief fallacy is the belief, even among the students, that grass leads to the big H and that it's physically addictive.

All in all these are fun to watch if you're straight and riotous if you're not; they're highly recommended. --John Horn

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Come into one of our showrooms and we'll show you the difference..... so that you can Wake Up to the Difference.



NOTICE!

LIMITS TO GROWTH: How Real and How Imminent? will be the topic of the first Cambridge Forum this fall. Speakers to the question include Karl Deutsch. Rose Frisch, and Mark Roberts (all of Harvard) and Robert Solow (of M.I.T.). The Forum meets Wednesday, Oct. 3, 8:00 PM at 3 Church Street, Harvard Square. and will continue every week until December 19.

AID TO FLOOD VICTIMS A flood has devastated Pakistan. 15,000,000 people have been directly affected 2,000,000 homes have been destroyed or damaged. \$800,000,000 worth of crops have been destroyed. In order to provide relief to the victims of the flood the Pakistani Students of M.I.T. and C.A.R.E. are conducting a fund raising drive at M. I. T. On Monday there will be a booth in Building 10 to collect donations for the flood victims. Money, food, medicines, clothing, and any other items which can help the people affected by the flood will be accepted.

The CONCOURSE FORUM is back! Opening speaker will be Prof. Jerome Lettvin, speaking on MYTH AND REALITY. Come to the Bush Room, 10-105 on Wednesday, September 26th, from 3-5 PM.

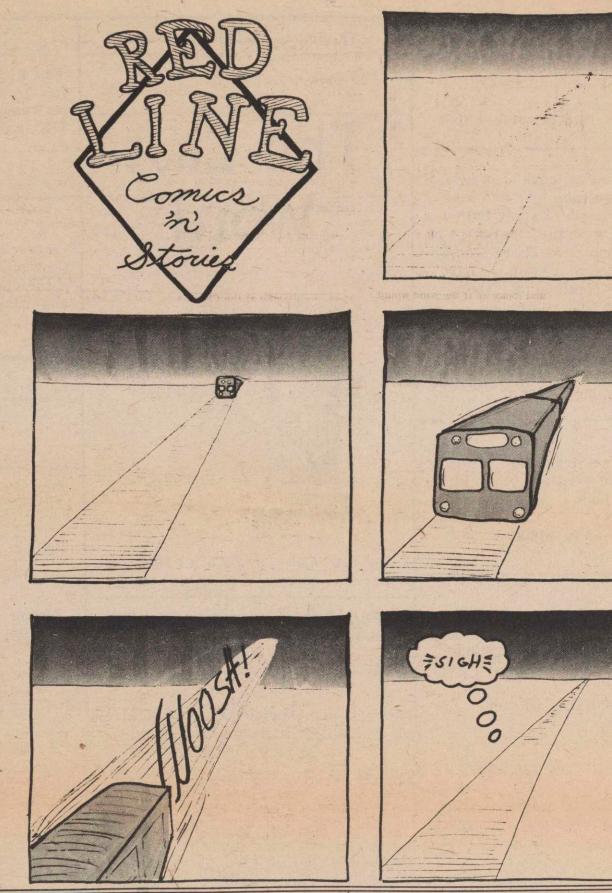
The ACTIVITIES DEVELOPMENT BOARD is presently receiving applications for capital equipment funding for student and commu nity activities until October 2. Applications may be secured from Dean Holden's office in 7-101.

LOTTERING OFF 60 original prints from the Stratton Collection. Students get to keep prints in their room for the academic year, to be returned week of May 13. Register choices at the exhibition in the West Lounge of the Student Center, October 1-4 Lottery winners will be notified Thursday evening. Artists include CAULDER, ALBERS, LICH TENSTEIN, MIRO.

Mary Rowe, special assistant to the President for Women and Work, will speak on ANDROGYNY on Tuesday, September 25 at 4pm in room 3-310. All men and women are welcome.

An Introduction to the aesthetics of film, exploring the unique qualities of the motion picture. UNDERSTANDING FILM is an eight session course offered by the Museum of Fine Arts. On Tuesdays, 6-8:30, from Oct. 9 to Nov. 27. Taught by DEAC ROSSELL of the Boston Globe. Limited to 35; cost \$55, members \$50. For more info., call 267-9300, ext. 226

ERROR ERROR ERROR CORRE Thursday regrets the omission of a byline from last week's Everybody's Column. The column was and will continue to be written by Missy Mink.



Chile Failure

continued from page 2 capitalist economy.

5. Bosses! strikes. Especially 'militant'' have been the truck bosses, whose strikes represented dangerous right-wing mobilizations which Allende refused to answer. As the leftsocialist Aurora de Chileput it, coup, it had embarked on an "There is going to be another bosses' strike, and the government is handing the plants back

another try... The government

the government said for us to

kers, but above all, of the government, " 7. The Army. This is where the Allende regime's policies were weakest. Just before the

extravagent terror binge against civilians coupled with the savage torture of soldiers to the fascists so they can make who didn't like the idea of toppling a democratically-elected the government said for us to government, especially one make the plants produce, and we which they took to be in their

take advantage of the [anti-

inflation] struggles... is not

the responsibility of the wor-

did and now we are not going to interests. Only shortly before give them back. What is the gov-the attempted coup of June 29, said:"We have never considermen for oligarchical interests and foreign monopoly ... '

women-Who Does What continued from page 1 an interest in working with wo-

The final problem must be seen as one of the society in which we live, the stereotyped expectations of what are appropriate studies for females and the jobs available to them once they've completed their education.

Probably, the education which a female student will get at the Institute will not be without certain difficulties. The following is a listing of resources, groups and individuals, at MIT, which may be of use to the woman undergraduate

an interest in working with wo-

Larry Applema

men. Dr. Carola Eisenberg, Dean of Student Affairs, is a concerned and very competent person.

Ann Ellison, assistant dean with special reference to women, is a good person to go to for personal problems. Dr. Rochelle Friedman, Dr. Lora Tessman are women psychiatrists in the Medical Department. Mary Hope, an assistant dean,

is concerned with women, minority students, and especially minority women. Jill Punsky is a tutor at Burton House and active in the recruiting effort. Mrs. Rodriguez, Mrs. Schwartz are social workers concerned with women's problems. Mary Rowe, special assistant to the President with reference ; to Women and Work, is a good person to talk to. Mary-Lou Sayles is the new director of women's athletics. Maureen Twomey is the only patrolwoman on campus.

per 20, 1973 Thursday

3 Ames St. Cambridge, Mass. 02142 (617) 253-7977

Larry Appleman, Randy Berge, Steve Brackin, Beverly Butts, Mike Butts, Nina Cahan, Louis Cohen, Marita Corgiulo, Ramiro Garron, Jon Goodman, Heidi, Jon Horn, Josh Klayman, Ken Klute, Jeff Kravin, Joanie Lund, Doug McGlathery, C. Mink, Marianne Mosher, Jerry Morrison, Jack Mosinger, Bill Poundstone, Steve Reisberg, Alison Ryan, Melvin Schorin, Evan Seigal, Fred Shapiro, Stewart Silling, Richard Stone, Brian Tokar, Jonathan Weiss, Walter Witryol, Bob Zimmerman

ernment going to do? Shoot us? the Socialist party (the left 6. Rampant inflation. In 1971, wing of Allende's coalition) this problem wiped out all but 30% of the wage increases. This ed the Armed Forces henchsparked the famous miners strike of two and a half months' duration. Avonzada Socialista, the Argentine Trotskyist weekly explained it this way: Inflation is due to three causes, First, "The sabotage of production by the big capitalists and the refusal of the governement to take the necessary steps---namely nationalization --- Secondly, most trade remains in private hands while at the same time the government rejects the only possible solution --- workers' control of distribution... Finally, the blockade by Yankee imperialism to which the government continues to make payments on financial debts, patents, and other forms of draining wealth out of Chile." In answer to those who called miners' strike Allende, Aranzada Socialista responds "the fact that the right wing might

A correct program one of mobilizing the people in defense of their hard-won gains is not guaranteed to work. But even if it fails, a correct strategy would have been carried out, and a lesson would be learned; compare this to Chile, where, due to the lack of a mass, revolutionary party, the incorrect conclusions will be drawn.

> MAYBE TS MUCH

in trying to cope with these challenges.

The Association for Women Students is a group of students interested in getting together and talking, suggesting ideas and working on projects. They are responsible for the increased recruiting efforts. There are regular meetings every two weeks.

The Women's Forum includes women who work in the MIT community. It meets Mondays at noon and presents speakers and discussions on topics concerning professional women. Dottie Bowe, who works in the financial aid office, knows a lot about surviving around the Institute and is very sympathetic to women's problems. Pat Callahan, in McCormick, has compiled a list of women tutors, coed floors, and other interesting resource info. Prof. Dresselhaus, Widnall, Potter, Kistiakowsky, Wheat-ley and Thompson are faculty members who have expressed

EARN TOP MONEY! Part time promoting student travel. Call or write (include your telephone number): VAGABOND TOURS, 242 East 80th Street, New York, N.Y. 10021 (212)535-9840.

Every child is born a genius: ninety-nine percent are degeniused by early post-natal circumstances.

-R. Buckminster Fuller

Everything you've learned in school as "obvious" becomes less and less obvious as you begin to study the universe. For example, there are no solids in the universe. There's not even a suggestion of a solid. There are no absolute continuums. There are no surfaces. There are no straight lines. Why did the chicken cross the road?

— Buckminster Fuller

Most of life is irrational...just the opposite of what you learn in these institutions.

-Saul Alinsky

If he is indeed wise, he does not bid you enter the house of his wisdom but rather leads you to the threshold of your own mind.

— Kahlil Gibran

Einstein, when he wanted to study, didn't sit in the middle of a schoolroom.

— Buckminster Fuller

Education is what you have left over after you have forgotten everything else you have learned.

Feiffer

-anonymous

This place only educates those who grab their education by the balls.

The Last

Word

by Nina Cahan and Walter Witryol

This place educates only those who

We don't just want to turn out machines;

-Jerome Wiesner

The end of man is knowledge, but

there is one thing he can't know. He

killed, all right, but he can't be sure whether he is killed because of the

knowledge which he has got or be-

cause of the knowledge which he has

not got and which, if he had it, would

can't know whether knowledge will save him or kill him. He will be

grab their education by the throat.

we want to educate them.

save him.

WELL,

AT LEAST

IT'S NOT

RACIST.

-HoToGAMIT

All the King's

Men by

Robert Warren

and...

-Anonymous

We are educating our computers faster than we are educating our young people...we are still not doing enough to prepare our youth to do what computers can never learn to do.

— Sol Linowitz

A teacher who makes little or no allowance for individual differences in the classroom is an individual who makes little or no difference in the lives of his students.

---- William Arthur Ward

A lecture is the process by which notes of the professor become the notes of the student without passing through the minds of either.

-anonymous

Living and learning are not mutually exclusive.

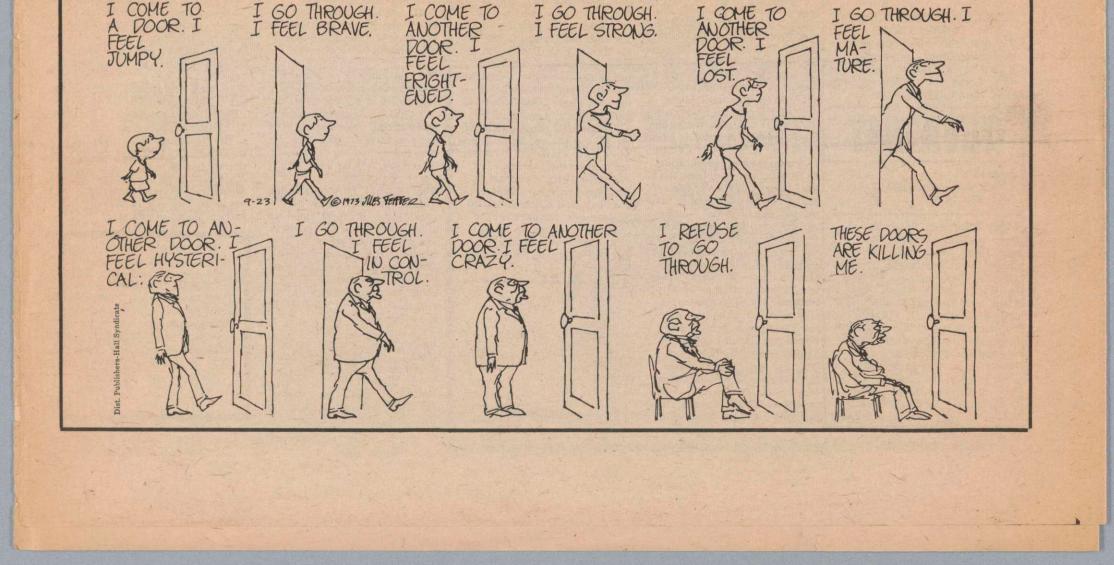
-Terry Mollner

It might be said that I have the best of both worlds. A Harvard education and a Yale degree.

-John Fitzgerald Kennedy

We shouldn't teach great books, we should teach a love of reading. Knowing the contents of a few works of literature is a trivial achievement. Being inclined to go on reading is a great achievement.

-B. F. Skinner



MIT women spread the word

By Phyllis Coons Globe Staff

Women at the Massachusetts Institute of Technology are selling an idea — more women.

The spearhead for their drive is a booklet written for and by MIT women entitled "A Place for Women." First readers will be 10,500 high schools juniors — the ones with top scores in math and science.

Guidance counselors will also receive the booklet in order to set many of them straight that women's place can be in science.

"If you're looking for equality, this is the place" is a sample of the woman-to-woman prose. But it's not a soft sell.

"Nobody is going to give you special treatment because you're a woman ... You won't snow people with your brilliance or be regarded as different or strange because you're intelligent."

Student editors make a point of this. "The smartest women are sick of pretending not to be smart," they say. "At a topnotch college like MIT you have to be smart — or you wouldn't be there."

Women at MIT make up only 12 percent of the student population — (500 out of 4075 undergraduates. Some MIT classes still start with "Good Morning, Gentlemen."

The first woman, Ellen Swallow Richards, graduated from MIT in 1873. But it has taken 100 years for their numbers to gain appreciably. Women at MIT have doubled in the past four years, since coed housing was offered, but MIT women feel this isn't fast enough.

With wider career options open-

ing in the face of pressure by women's liberation groups, women are calling for an end to sex role stereotyping.

Women have seen to it that their pictures now run alphabetically in the freshman book instead of in a centerfold "teaser," says one editor. Diplomas are now embossed with "her" as well as "him."

All departments have made concessions for women. That is one of the reasons why MIT is the first and only university in the Northeast to win the approval of Federal office of Civil Rights on its Affirmative Action Plan.

No two editors of "A Place for Women" have the same extracurricular activities at MIT but their common denominator is that they are all good students. Carol Dees is the first and only student from Buffalo's predominantly black East High School at MIT. She is majoring in urban studies.

Computer models analysis, a field heavily dominated by men is the attraction at MIT for Shelly Bernstein.

Joan Gildin is headed for medicine after getting one MIT degree in biology in three years and another in visual studies and architecture. "When you come to MIT, you're admitted to the whole university, not just to one school of it," says Joan.

Setting an early precedent in interdisciplinary majors, Cynthia Bloomquist combined psychology and civil engineering by writing her own program. She planned to go into counseling, but MIT promptly tapped her as an assistant admissions officer.

Linguistics is the strong suit of Sandra Yulke, who studied at the United Nations School in New York. In addition to taking all available courses in French literature, she majored in metallurgy and has a degree in chemistry and a second in earth science. "MIT prepares you to do anything," Sandra says. "If you sur-

The least likely route to MIT was Missy Hannah Mink's. Missy left Baltimore's public high school because it wouldn't let her take shop instead of home economics.

She defected to a small Episcopal academy for girls and then persuaded the headmistress to release her for physics and chemistry classes at a community college nearby, so she could meet MIT requirements.

Life styles of MIT women are as different as their goals. Anne Hirsch, a liaison between MIT and metal companies, owns a mink coat and drives a new sports car while she is putting her husband through Harvard Graduate School.

A commune is home for Chris Jansen, a technical manager at Polaroid. Her husband and another couple living there are also MIT graduates.

Women are edging ahead on the faculty at MIT, too. A new post, Special Assistant to the President and Chancellor for Women and Work, has been created for Mary Rowe. Anne Ellison, a graduate student in engineering is assisting a new women dean of students, Mrs. Carola Eisenberg.

Editors of "A Place for Women" suggest:

—Don't come to MIT looking for a husband.

-Don't come to MIT to prove something to yourself or anyone else.

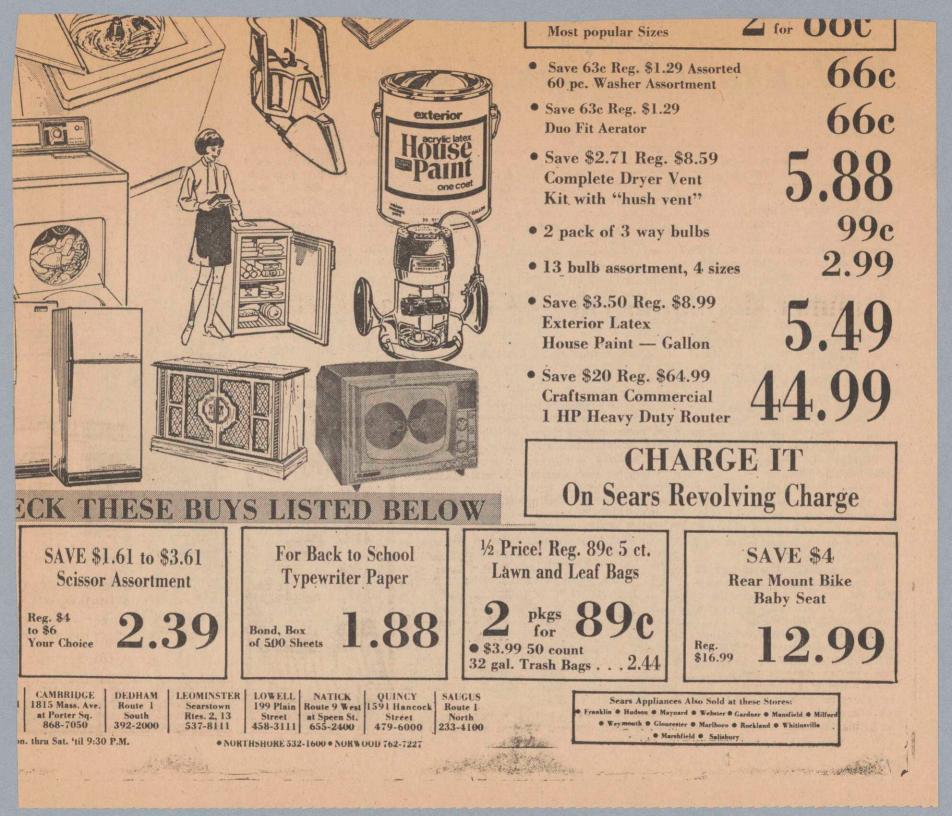
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Sept.

'PLACE FOR WOMEN'—Student Kate Gardner on MIT campus. (Ivan Massar photo)

woman . . . Being a woman at MIT is one of the most beautiful things about being here.

—If we waste the progress (women have made in the first 100 years) there will be no hope of changes in the next 100!



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BOSTON GLOBE Sept.1,1973

looneden

MIT: A place for women

To Many live

It was in 1873 that a trailblazing woman first graduated from the Massachusetts Institute of Technology. Very few women, however, have followed in her footsteps. But things are changing. Figures for next fall show that four times as many women as ever before are interested in attending MIT. More than 1,400 female high-school students have filed preliminary inquiries with MIT. The previous high figure, at the same time last year, was 435.

science news, vol. 104

*12

A major reason, says director of admissions Peter H. Richardson, "is the heightened awareness young women have of the wider career choices available to them. More of them are showing interest in those science and engineering fields that have traditionally been thought of as male." Richardson has been actively seeking and recruiting qualified young females for several years. He says, "It appears that we have finally succeeded in getting the message across that there are women at MIT."

DEPARTMENT OF ELECTRICAL ENGINEERING

UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS 61801

September 11, 1973

Anne Ellison's sec. Joslyn 3-4861

Miss Mary Rowe Chancellor for Women and Work Massachusetts Institute of Technology 77 Massachusetts Avenue Cambridge, Massachusetts 02139

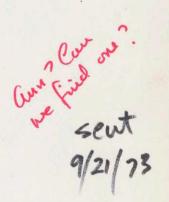
Dear Miss Powe:

I understand that MIT has just published a booklet entitled "A Place for Women." I would appreciate very much having a copy sent to me.

Sincerely,

Charles D. Tentricka

Charles D. Hendricks Professor





MASSACHUSETTS INSTITUTE OF TECHNOLOGY CAMBRIDGE, MASSACHUSETTS 02139



Student Financial Aid Office

October 14, 1973

MEMORANDUM TO: Jack H. Frailey

FROM:

L. V. Gallagher

SUBJECT:

Aid to Women Students

We now have our Operations Report programmed to give aid data for women students only, and we can tabulate aid as a function of student sex. The results are interesting.

The women are 99 percent as needy as the men. The difference, on the average, is \$38. We had expected that self-selection would result in less needy women students--not so. But the self-help average for women is less than that for men by \$58--their awards are richer by that much in scholarship than we'd expect them to be.

Women are also receiving more outside scholarship than men*--the average award distributed over all aid recipients is \$307 for women versus \$271 for men. Ideally this difference should not be reflected in a relative decrease in average self-help for women, since our outside scholarship adjustment policy is designed to preserve the equity threshold. But that threshold does get invaded, and is depressed in individual instances by outside scholarships exceeding M.I.T.'s original scholarship award, and by the lower self-help awards made to low-need students.

It's clear that the women are invading the threshold more than men, and it has to be because they are getting more large outside scholarships or because there are more low-need women. Either can be true, of course, even if the average outside scholarship award and the average need are essentially similar--the distribution in the case of women could be more bi-modal than for men. Of significance is the fact that 28.9 percent of women applicants are "no-need," versus 22.9 percent of men applicants.

A comparative distribution of need would resolve part of this guestion.

*The average outside award to men is \$1180--to women, \$1196.

Gallagher

LVG:gm Attachment

AID TO MALE AND FEMALE STUDENTS AVERAGES, EXCLUDING SPECIAL PROGRAM For FY '74, @ October 10, 1973

	Male	Female	
Net M.I.T. Scholarship	\$1356	\$1349	
Outside Scholarship	271	307	
Total Scholarship	1626	1656	
Loan	972	950	
Job	637	601	
Total Self-Help	1609	1551	
Total Aid	3235	3207	
Need	3231	3193	

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE CAMBRIDGE, MASSACHUSETTS 02139

MEDICAL DEPARTMENT

November 23, 1973

Ms. Jeanne E. Richard Assistant Dean for Graduate School Room 3-136, M.I.T.

Dear Ms. Richard:

Mary Rowe has sent me your letter about student health insurance.

Concerning your first point, the graduate student with whom your spoke is mistaken. Student insurance is available to any student at the \$54 rate on an individual coverage basis. Thus, two students who are married can obtain two individual policies for a total of \$108. This may seem unfair to other student spouses who are not enrolled at M.I.T., but a student is entitled to student coverage regardless of marital status. (Incidentally, to insure their children, a couple would have to take the family option.)

You are indeed correct that the male spouse must pay \$109 even though he may not enjoy the maternity benefit. The insurance company really lookson the family coverage on an overall actuarial basis of the total cost and cannot break apart or price the slight dollar difference depending on the number of male vs. female spouses. The student couple mentioned above really obtain a price break on a technicality - the fact is that they are both students and married, and receive the benefit of the doubt cost-wise for this "duality".

I think the most important factor to us in student health insurance is striking a balance between minimizing the cost for the student, while providing adequate protection in the event medical care is required. However, we will continue to try to delete any unconscious sexism that may have been built into the structure of our student insurance.

Sincerely, Laurence H. Bishoff

Assistant Director for Administration

LHB:cmr

cc: Dr. Rowe

Massachusetts Institute of Technology



Volume 18 Number 9 September 5, 1973

Technology Is Needed, Wiesner Tells '77

President Jerome B. Wiesner told MIT freshmen Friday that they "are bucking the conventional mood by choosing a scienceoriented career.'

But he told them that the great problems of society "will need engineers and scientists to help in their solution," adding that America "still offers mankind's greatest hope."

Dr. Wiesner spoke to the new students-the class numbers about 900-at the annual freshman picnic in the Great Court.

"At this moment in history," he said, "you are bucking the conventional mood by choosing a science-oriented career-for many people are attacking science and engineering as the basis of most of society's problems."

He said that many at MIT "have been concerned about the attacks on science and the deeper problem it represents-the need for society to adapt to the opportunities and dangers that technology continuously creates." He continued

"We feel strongly that in the future engineers and scientists-you, at least some of you-must have an important part in the continuing evolution of our society. We hope that an MIT education will equip you for such a role. Not only with an unexcelled technical education but with a sense of personal confidence, an unshakable integrity, the courage to pioneer and a respect for others."

'I don't believe that you will have reason to regret your choice of career," he said, "because the great problems of our society will need engineers and scientists to help in their solutions.

In addition, he said, research activities "offer excitement and challenge for the most imaginative, creative minds.

"Our country, through its universities and industry," he said, "has led the way in the applications of technology for man's benefit but we have also let some major problems (Continued on page 12)

FRESHMAN Alan R. Joslin of San Francisco relaxes on the grass of the Great Court shortly

after arriving for Residence/Orientation week. Other photos of freshmen on pages 6 and 7.

Alumni Fund Reaches Record \$3.1 Million in 1973

A record \$3,183,680 was contributed by 21,796 donors to the 1973 MIT Alumni Fund-a 14 percent increase over last year's record \$2.8 million.

The final tally was announced by Howard O. McMahon, PhD 1941, chairman of the Alumni Fund Board, in a letter to alumni that will appear as part of the Annual Report of the Alumni Association being distributed this month.

"Substantial additional student funds are needed for 1973-74 to maintain MIT's competitive position," the report says.

The retiring members of the Alumni Fund Board are: Mr. McMahon, a Lincoln resident; Theodore A: Mangelsdorf, Class of 1926, of New Kent, Va.; Kenneth G. Fettig, SM 1953, of Medfield; Daniel J. Holland, Class of 1958, of Hingham; Richard A. Carpenter,

Spiker, Class of 1925, of Fairfield, Conn.; Russell L. Haden, Class of 1940, of Ridgefield, Conn.; Ralph Landau, ScD 1941, of Northport, N.Y.; Marjorie Pierce, Class of 1922, of Weston; and Edward O. Vetter, Class of 1942, of Dallas, Tex

Continuing members are: William B. Bergen, Class of 1937, of El Segundo, Calif.; Charles E. Kolb, Jr., Class of 1967, of Sudbury; Ellis Castle, N.H.; James E. Turner, Class of 1933, of East Greenwich, R.I.; and Karl R. Van Tassel, Class of 1925, of Lake Forest, Ill. Other members are: William S.

Edgerly, Class of 1949, president of the Alumni Association; James B. Lampert, SM 1939, MIT vice president for resource development; Frederick G. Lehmann, Class of 1951, financial vice president and treasurer of the Alumni Associ-

Hot Spell Produces Problems

The long Labor Day weekend was made even longer for most MIT employees when the Institute was closed, except for essential services, at noon on Friday.

John M. Wynne, vice president for administration and personnel, said that the special half-holiday was declared because of the heat wave and the impending holiday weekend.

"We concluded that the combination of a week of quite oppressive heat and the beginning of the Labor Day weekend when no regular classes were in session called for a special action and that everyone at MIT might welcome the opportunity to get an early start on the long weekend," Mr. Wynne said.

"I hasten to add," he continued, "that no precedents are intended by this action, either in terms of half-holidays before Labor Day weekends or, during periods of extreme heat, the early release of those working in air conditioned spaces. I like to think that decisions at MIT are guided not by precedent or rigid formula, but by the judgment as to what is best under the particular combination of circumstances that prevail.'

Mr. Wynne explained the criteria and logic that go into decisions on early release of persons working in non-air conditioned locations. This occurred twice during the summer before Friday.

"The Environmental Medical Service staff tell me that the oppressiveness of heat is dependent on the air temperature, the air movement and the humidity-and not solely on the air temperature,' he said.

"During periods when the temperature begins to build up, they take frequent readings at several points around the campus, both outside and inside buildings, of all three of these elements. These readings are then combined into a single index of 'effective temperature.' "

"During a time of inflation, changing national policies and widespread economic uncertainty, this is a most gratifying vote of confidence in MIT," he said. "It is a vote of confidence by you and your fellow alumni-the people who know the Institute best and care the most.'

The theme for the Alumni Fund is "Continuity and Change: The Elements of Excellence.'

Mr. McMahon said that "continued and increased support is essential for MIT to preserve the leadership and stature accorded it over the years.'

"Furthermore," he said, "your support has helped MIT persuade major corporations and foundations to continue and increase their support of the Institute."

As an example of the Institute's financial needs, the annual report says that \$5,720,000 in scholarship and loan aid was provided to 1,973 of MIT's 4,183 undergraduates in 1972-73.

Class of 1964, of Hingham; and Donald L. Thomsen, Jr., PhD 1947, of New Canaan, Conn.

Incoming members are: Norman B. Leventhal, Class of 1938, of Newton; Samuel R. Louis, Mo.; Angus N. MacDonald, Class of 1946, of Greenwich, Conn.; Stanley M. Proctor, Class of 1943, of Shaker Heights, O.; Clinton H. Springer, Class of 1945, of New

C. Littmann, Class of 1933, of St. ation and director of the Alumni Fund; Donald P. Severance, Class of 1938, executive vice president of the Alumni Association, and Joseph J. Snyder, 1944, MIT treasurer.

Named EE Executive Officer Newton

Dr. George C. Newton, Jr., a member of the electrical engineering faculty at MIT since 1949 and associate director of the MIT Electronics Systems Laboratory, has been appointed executive officer of the MIT Department of **Electrical Engineering effective** Sept. 1.

Dr. Newton succeeds Professor Louis D. Braida who was department executive officer for two years. Announcement of the appointment was made by Professor Louis D. Smullin, head of the department. Electrical Engineering is MIT's largest academic department

A native of Milwaukee, Wis., Dr. Newton received the SB degree in

1944 and the ScD degree in 1950, both from MIT. He was appointed assistant professor in 1949, associate professor in 1952 and professor in 1964. He has been associate director of ESL for more than two decades.

Dr. Newton's research interests are instrumentation, control and computation. He has published numerous papers on electronics and control technology.

Dr. Newton is a member of the IEEE, the American Institute of Aeronautics and Astronautics, the Franklin Institute and Sigma Xi. He received the Levy Medal from the Franklin Institute in 1953. He makes his home in South Lincoln, Mass.



"It is on the basis of what information that the decision is made whether to release persons working in non-air conditioned spaces. There will be variations in particular working locations where the 'effective temperature' is higher or lower than the average pattern across the Institute. But the Institute decision to curtail activities in non-air conditioned spaces must be based on the general pattern throughout the campus."

Burton vs. Patrol

The Campus Patrol will play the Burton House softball team on Briggs Field, Saturday, Sept. 8, at 2pm.

The "just for fun" game, arranged on a challenge from Burton House, will start off the new term. MIT vice president Constantine B. Simonides will umpire. Captain James Olivieri will pitch for the **Campus Patrol. The Burton House** lineup has not been chosen. Everyone's invited.

Black Student Enrollment In Grad School at Record

Nearly 60 new minority graduate students are expected to register at MIT next week, bringing the number of minority graduate students to some 136-a new high.

"We are encouraged at the growth, but will continue efforts to find and attract qualified minorities," Dr. Clarence G. Williams, assistant dean of the Graduate School, said.

Dean Williams cited two recent innovations which may encourage more minority graduate students to apply

"In production is a poster with attached return postcards urging future graduate students to consider MIT as a place where they can create their own future," he said

The poster will be distributed to colleges and universities throughout the nation later this month.

Earlier this summer, the Graduate School was host to some 30 senior members of the faculty or administration at predominantly black schools in the south. The educators were representatives of the Thirteen College Curriculum Program which has developed new curricular methods and materials for their schools.

The meeting-believed to be the first between TCCP and a major northern graduate school-explored ways MIT can attract more graduate students from southern minority schools.

TCCP was started in 1967 by 13 institutions to develop new educational programs which capitalize on the backgrounds and interests of black students. Since formation 23 other schools have adopted the program.

"We were encouraged by our meeting with the TCCP meeting," Dean Williams said. "We were able to explain in detail graduate study at MIT, including admission requirements and financial aid. We hope to schedule other meetings with TCCP at which they can meet with members of the MIT faculty.'

In the planning stage are several other mechanisms which, if successful, will serve to increase further the quantity and quality of minority graduate students at

Beer, Wine Added At Student Center

A happy hour at 4pm Friday, Sept. 7, in the Twenty Chimneys will celebrate issuance of a beer and wine license to the Student Center dining rooms.

The first beer will be free with presentation of a ticket available at the door. Thereafter beer and wine will be available during regular hours at the Twenty Chimneys and Lobdell.

Imported and domestic draft beer will be sold in Twenty Chimneys. Lobdell will have bottled beer. Sales will be limited to those 18 and older and IDs will be checked.

Baker Featured

The 25th anniversary of Baker House, Alvar Aalto's only building in the United States, is noted in an article in the July issue of Architecture Plus.

Pilot Chemicals Division,

New England Nuclear Corp.,

other week.

This division manufactures and sells low-volume, highvalue specialty chemicals for primary use in biological and biomedical research. Two topic areas are suggested. (1) A small batch of chemical production operation generates a fluid waste material containing organic and inorganic salts and aromatic compounds. The waste separates into two phases and a detailed analysis is needed for both. (2) Chemical hood exhausts contain small amounts of unknown air contaminants. The project entails air velocity checks, gas sampling at the stacks followed by analysis of effluent samples.

Wednesday, Sept. 19, at 7:30pm in

W20-400 at the Student Center.

Meetings will then be held every

SCEP conducts studies and pro-

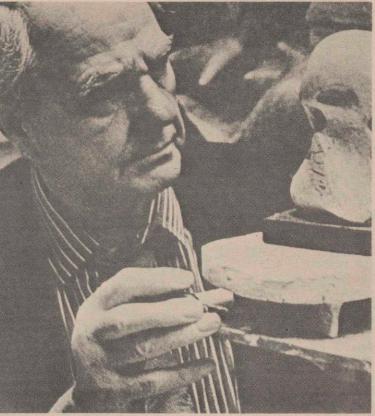
grams to affect educational policy.

It is open to new members after

EG&G, Inc.,

Salem The Technical Products Group designs, manufactures and sells industrial flashtube and stroboscopic equipment. The company has an array of problems when trying to lower the starting voltage on a flashtube, increase their reliability, decrease manufacturing steps and / or lengthen their life expectancy. Many of the topic areas are long standing hard engineering and design problems and EG&G wants to collaborate with undergraduates on (1) low starting voltage flashtubes, (2) guided arch flashtube characterization, and (3) flashtubes for dye laser optical pumping applications. Contact UROP or Professor Edgerton at the Strobe

Art Exhibits Planned



SCULPTOR HENRY MOORE working on a small model of his "Elephant Skull," a large sculpture which is the focus of an exhibit opening Sept. 14 in Hayden Gallery. Also included are a number of etchings the artist made of details of an actual elephant skull. The exhibit is one of two opening simultaneously. The other is "Lightworks," an experimental exhibit by MIT students using advanced light and optical technologies as a creative medium.

SCEP Meeting Set for Sept. 19

The Student Committee on Eduthey attend two meetings. cational Policy (SCEP) will hold its first meeting of the school year

Watertown

Scheduled for the first meeting are a discussion about renewing the education lectures conducted last spring with the Education Division and consideration of a program of investigation into degrees, grading, requirements and units.

UROP Booklet Is Out, Listings Are Resumed

The Fall, 1973, edition of the Directory of MIT Undergraduate Research Opportunities has just been published by the Undergraduate Research Opportunities Program and copies are available at the Information Center, Rm. 7-111, or the UROP office, Rm. 20B-141.

UROP invites MIT undergraduates to participate with MIT faculty and staff in a wide range of research and independent study, both on and off campus.

"Ground rules and procedures for the program are set forth in the Directory," Professor Margaret MacVicar, UROP director, said. Students should begin by reading the 'How to Participate' section. Department, office and laboratory coordinators are prepared to assist undergraduates in searching for interesting activities."

Undergraduates with UROP questions should visit or call the UROP office, Rm. 20B-141, x3-5049.

LIS Begins Sept. 17

Fall term evening courses at Lowell Institute School will begin the week of Sept. 17. Last week's Tech Talk, due to a typographical error, erroneously reported that classes would begin Friday, Sept. 7, which is the deadline for submitting applications for courses in FORTRAN Programming, Optical Systems, TV Systems, High Speed Strobe Photography and Machine Tools. Further information isavailable in Room 5-113 or by calling Ext. 3-4895.

Equipment Available

UROP will make available on a full-use basis the following equipment to student author(s) of a suitable proposal: (1) Signal Galaxies 4k x 16 bit solid state memory card. Dynamic-MOS storage elements are TTL compatible Read cycle - 550 nano seconds. (2) Electric Wire Wrap Tool, with bit, sleeve and unwrapping tool.

New Subject Listings

3.095 MATERIALS PROCESSING, AN ENGINEERING AND HISTORICAL APPROACH

Prereq: 3.091, or 3.141 Year: U (1,2)

2 - 4 - 6

Lectures on engineering principles of materials processing (primarily metal casting and glass working) and on interrelationship of the technologies studied with their cultural settings. Laboratory workshops in metal casting (sand and lost wax) and glass working (blowing and forming) to give students intimate, first-hand experience with these processes. Important historical developments in glass and foundry technologies in both the Old and the New Worlds. Influences of technological, economic, and aesthetic factors on processes employed. Field trips to museums and factories. Edwin Backman, Heather Lechtman, Robert Mehrabian, Arthur Steinberg, Pamela Vandiver.

New UROP Listings

For more detailed information on UROP opportunities listed, MIT undergraduates should call or visit the Undergraduate Research Opportunities Program Office, Room 20B-141, Ext. 3-5049 or 3-4849. Undergraduates are also urged to check with the UROP bulletin board in the main corridor of the Institute. Kennedy Memorial Hospital,

Brighton

Interdisciplinary project involving electromechanical aids for occupational therapy for handicapped children. In a joint project with Kennedy Memorial Hospital to design and construct devices for rehabilitation of children with skeletal and neuromuscular diseases, students will participate in a "brainstorming" meeting at the hospital each week in addition to special periods observing and working with patients. During the past summer some student projects included construction of mechanical toys, communications devices, testing machines, teaching machines, visual-motor integration devices and visual-motor sequencing devices. Contact Professor R. E. Kaufman, Rm. 3-445, x3-6237.

Children's Museum,

Boston The museum is trying to make computers accessible and understandable to visitors through a participatory exhibit. Projects involve (1) designing, building, and debugging computer-controlled toys for a PDP-8, (2) implementing a general-purpose time-sharing system on the PDP-11; and (3) designing and implementing applications programs for budgeting, record keeping, etc. Other project areas are designing and creating simple machines from recycled materials to be used by teachers working with children; and development of classroom science materials for use by children (magnetism, optics, computers, radio and television).

Architecture Department

(1) The Architecture Machine Group is recruiting undergraduates to design and build digital hardware. A student should expect to embark on a project (of his ownchoosing) that will include the full spectrum of activities: designing, lay out, wire wrapping, debugging. What you build will get used! Contact Andrew Lippman, Rm. 9-516, x3-5113.

(2) Computer graphics—The School of Architecture and Planning computer facility has opportunities in both systems and applications programming for undergraduates. Available devices include a color scope, two dynamic displays, three storage tubes and a plotter. Credit only, first term. Contact Mike Miller, Rm. 9-555, x3-7920.

Lab, Rm. 4-405, x3-4629 for details.

Behavioral Sciences Division,

Bolt, Beranek and Newman,

Cambridge

Boston

The Division has suggested three possible areas for undergraduate collaboration: (1) speech-training aids for the deaf; (2) basic research on human information processing; and (3) experiment of tactual tracking displays.

Beth Israel Hospital,

Better non-biological materials are needed for use in artificial devices that must come in contact with the blood. One hospital laboratory is engaged in development and testing in vitro and in laboratory animals of systems intended for contact with the blood. The purpose of the work is to increase basic understanding of surfaceinduced reactions of the blood, with the eventual intent of development of non-thrombogenic materials. Methods employed in the lab's experiments range from simple clinical tests to more sophisticated probes into biochemistry of blood platelets and soluble blood clotting factors, including the techniques of protein chemistry, radioimmunoassay, isotope dilution techniques, electron microscopy, and in vivo implantation in living animals.

Graduate Studies

Postdoctoral

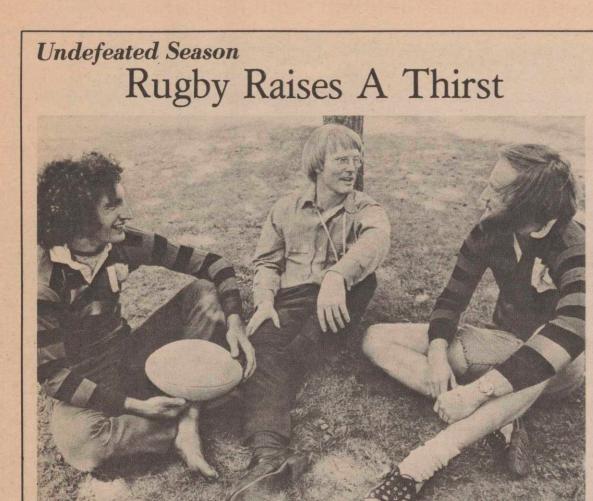
COMMONWEALTH OF AUSTRALIA, QUEEN'S FELLOWSHIPS IN MARINE SCIENCE-Five fellowships may be awarded each year for full-time research by young scientists of exceptional promise and proved capacity for original work. Awards are tenable at the Australian Institute of Marine Science, Townsville, an Australian university or an approved research institution, normally for two years. Fellows should have a PhD or equivalent qualifications, and be not more than 30 years of age on the date when applications close.

Stipend \$7,400 (Australian) per annum. Allowances are payable to a Fellow's wife and each dependent child and appropriate insurance coverage and necessary travel expenses are provided.

Application forms can be obtained from: The Consul General, Australian Consulate General, 636 Fifth Avenue, New York, N.Y. 10020.

Closing date for applications to be received at the Education Liaison Officer, Canberra House, Strand, London, W.C. 2, England is 21 September 1973.

For further information see Professor Locke or Paula Kelly, Room 10-303, Ext. 3-5243.



MIT rugby coach William Thilly, center, with team captain Don Arkin, left, and Rugby Coach president Paul Dwyer. The sport is in its 25th year at the Institute.

Webster's Seventh New Collegiate Dictionary leaves out a very important word in its definition of rugby

"Rugby: a football game in which play is continuous; kicking, dribbling, lateral passing, tackling, and the scrum are featured, and interference and substitution are not permitted," says Webster's

But not a word about evaporation.

"You can't imagine the evaporation of body fluids that takes place just watching the game, let alone playing it," says William Thilly, coach of the MIT Rugby Football Club.

"Why one of the finest things about rugby is the way people gather together after a hard practice or game to replace body fluids," Coach Thilly, said, speaking quite plainly despite having his tongue firmly in his cheek.

Besides replenishing fluids, the MIT Rugby Football Club, now in its 25th year, wins games. Lots of games

Undefeated last spring, the club is considered the best college team in New England, possibly the best college team on the East Coast. Nationally, those who know the sport rank MIT among the top 10 of the more than 100 US rugby clubs recognized by the International Rugby Union.

A tough fall schedule-which begins Sept. 29 against Schenectady-will include games with Dartmouth and the Harvard Business School. Games are played at Briggs Field. Fluid replenishing takes place at Ashdown House.

The club also will compete next February in the New Orleans Mardi Gras Rugby Tournament.

"Club" as applied to rugby doesn't mean the team is a fledgling operation seeking recognition by

the National Collegiate Athletic Association. Not at all

The International Rugby Union, Coach Thilly says, does not recognize the NCAA as an amateur organization. The Union, for example, doesn't permit anyone connected with rugby to be paidand that includes coaches and referees. "Club" in the rugby context means an athletic and social organization dedicated to true international amateur competition.

Rugby players like it that way. They take the game seriously, but they sing, drink and enjoy themselves with as much gusto as they knock heads. And without pads or helmets, by the way.

Says club president Paul W. Dwyer of Chateaugay, N.Y., a graduate student in me-chanical engineering: "Rugby is looked upon as a gentleman's game. You always say 'excuse me' if you've kicked somebody in the teeth, for example."

Captain of the rugby team this year is Don Arkin, a 1972 graduate of the Institute, now employed by the Division of Sponsored Research in the Department of Nutrition and Food Science.

Arkin, 23, who Coach Thilly called "possibly the top player at MIT in the last 10 years," has several times been chosen as an all-New England running back

Club members come from throughout the MIT community-undergraduate, graduate and post doctoral students, staff, faculty and employes. Games are scheduled to allow each player a game a week. Practice sessions are Tuesdays and Thursdays. Playing members contribute \$10 a season, non-playing social members \$25.

Those interested in more information can contact Paul Dwyer at Ext. 3-6050.

Mass. Legislature Seeks Student Aides

Program (MIT/Legs) is preparing to begin a fall program of placing students with Massachusetts

The MIT Legislative Service addition, the Black Caucus of the House of Representatives has a list of projects for minority students.

MIT/Legs placed 18 students with state representatives last term. Another six students worked with the Black Caucus. The program is supervised by J.D. Nyhart, co-ordinator of law related studies and associate professor of management, and James E. Annable, assistant professor of management.

300 Expected to Attend Underwood-Prescott Award

More than 300 food scientists, food industry executives and students will attend a program at MIT Sept. 25 honoring an internationally-known food scientist for his contributions to food processing technology

Walter A. Mercer, vice president of the National Canners Association and director of the association's Western Research Laboratory in Berkeley, Calif., will receive MIT's 11th annual Underwood-Prescott Memorial Award and an honorarium at a luncheon at the MIT Faculty Club.

Participating in the program will be Geroge C. Seybolt, president of the Wm. Underwood Co., Watertown, Mass., and Dr. Walter A. Rosenblith, provost of MIT.

Following the luncheon, Mr. Mercer will head a symposium in MIT's Kresge Auditorium on management of water supply, protein supply and utilization of by-products.

Other panelists at the symposium—entitled "Ecology, the Environment and the Food Industry: New Horizons and Hazards in Resource Management"-will be:

Evan F. Binkerd, vice president and director of research for the Armour Food Company, Oak Brook, Ill.; Dr. Robert J. Dimler, area director of the United States Department of Agriculture's Northern Regional Research Laboratory, Peoria, Ill., and Dr. Robert S. Timmins, president of Abcor, Inc., Cambridge, Mass.

An MIT Department of Nutrition and Food Science faculty committee, headed by Dr. Samuel A. Goldblith, associate department head, named Mr. Mercer to receive the award for his "contributions to the field of food science with particular reference to ning in general and conservation of water supplies in particular."

Mr. Mercer joined the National Canners Association research laboratories in 1950 as a bacteriologist, and in 1973 was named one of three NCA vice presidents.

In addition to his NCA duties, Mr. Mercer is director of the University of California Laboratory for Research in the Canning Industries, a consulting laboratory under contract to the Bureau of Food and Drug Inspections of the California State Department of Public Health. He is the author or co-author of more than 100 publications concerned with bacteriological and chemical research on problems affecting the canning industry.

The award is in memory of William Lyman Underwood, grandson of William Underwood, who founded the Wm. Underwood Co. in Boston in 1822, and Dr. Samuel Cate Prescott, the first dean of the School of Science at MIT



Walter A. Mercer

perature and time guides necessary to destroy the spore-forming organisms responsible for the spoilage.

50 Youths Fill Summer Jobs

More than 50 youths from the Cambridge area were employed at the Institute this summer in fulland part-time positions.

The high school studentslargest group ever of young summer employees at MIT-were hired through the Cambridge Youth Employment Program (CYEP) and the Neighborhood Youth Corps (NYC) program.

The CYEP is a placement service funded by the city of Cambridge. Salaries of the CYEP employees were paid by the Institute.

The NYC is federally funded. Salaries were paid by the US government. Inoia 5. Inompson was the co-

ordinator of summer employment for youths at the Institute. Ms. Thompson, a former personnel staff member, returned to MIT for the summer to handle the job.

"The ground work of job development India did before the youths arrived was a major factor in the success of the program,' according to Susan A. Lester, personnel representative. "We hope that the summer the students spent at MIT was a meaningful experience.

Many students have requested part-time employment for the fall. Offices which may have openings should contact their personnel officer. Personnel assistant Kenneth L. Hewitt (Ext. 3-6512) will coordinate placement.

> **TECH TALK** Volume 18, Number 9 September 5, 1973

state legislators to work on legislative research projects.

An organizational meeting will be held within two weeks-the time and place to be announcedat which the program will be explained and a list of possible projects distributed.

A wide range of projects is available to interested students. In

MIT at Jamboree

Edward F. Crawley, an MIT sophomore from Belmont, Mass., was picked from among 40,000 Eagle Scouts recently to open the Boy Scouts of America 1973 National Jamboree-East near Pittsburgh, Pa., with the reading of a proclamation. Other MIT people with key roles at the Jamboree were Josepf F. Kachuta, Medford, an assistant MIT safety engineer, and Bruce D. Wedlock, Winchester, director of the Lowell Institute School.

Students will spend 10 to 12 hours a week working at the State House and attend seminars Wednesday evenings featuring prominent political figures. Credit or stipend arrangements are available.

After establishing, in 1895, that spoilage in canned foods was due to bacteria, they developed tem-

Attend Sloan Seminar Medical Deans

Twenty-three medical school administrators from the US and Canada last week concluded a five-day management seminar developed by MIT's Sloan School of Management and the Association of American Medical Colleges

Members of the Sloan School made up the teaching staff for the seminar. Edward B. Roberts, professor, and Richard Beckhard, senior lecturer, are the primary lecturers for the seminar. John F. Rockart, associate professor, and Edgar H. Schein, professor, pro-

vide supplementary teaching. The seminar-at Endicott House-was part of the AAMC's Management Advancement Program, which has been in existence about one year. The latest group was the third to attend a week-long seminar given by faculty members of the Sloan School.

Purpose of the seminars is to develop managerial capabilities of medical school deans. Dr. Marjorie Wilson, director of the Department of Institutional Development for the AAMC, said the vast

majority of the nation's medical deans now have attended MIT management seminars.

The Management Advancement Program was developed by an associate steering committee, under the chairmanship of Dr. Ivan Bennett, vice president and dean of the New York University School of Medicine, and by the faculty of the Sloan School.

The program has been supported by grants from the Carnegie Corporation, the Grant Foundation and the Robert Wood Johnson Foundation.

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Events of Special Interest

Welcoming Party - New Graduate Students

Learn about extracurricular activities, nationality groups, and talk informally with the President of MIT, the Dean of the Graduate School, the Dean for Student Affairs and others. Mon, Sept 10, 4:30-6:30pm, Sala. Refreshments.

Seminars and Lectures

Friday, September 7

Linear Filtering of Ballistic-Entry-Probe Data to Reconstruct the Atmosphere of Venus

Mark L. Sabin, aero/astro. Instrumentation Doctoral Thesis Presentation. 1pm, Rm 33-206.

Monday, September 10

The Invisid Limit in Two and Three Dimensional Turbulence Prof. U. Frisch, University of Nice, France. Applied Mathematics Colloquium. 4pm, Rm 2-338, Coffee, 3:30pm, Rm 2-349.

Community Meetings

Student Art Association**

Classes in drawing, painting, photography, pottery, etching and stained glass. Registration: Mon, Sept 10-Fri, Sept 14, 1-5pm, Rm W20-429. In addition, instructors and Mimi Luft, director, will be there to answer questions Thurs, Sept 13, 7:30-9pm. Classes start the week of Sept. 17.

Action on Smoking and Health*

Meeting of New England committee. Thrus, Sept 6, 6-8pm, faculty club. Dutch-treat supper. Supporters welcome. Reservations, call David Wilson, x3-5121.

Women's Forum

Meetings and discussions. Mondays, 12n, Great Court, if raining-push Km, 10-105.

Course Evaluation**

Sponsored by TCA & SCEP. Come and help out. For info, call Robert, 494-8889 evgs, or lve msg at TCA, W20-450, x3-4885.

MIT Community Players - Acting Classes

Beginning and intermediate acting class, taught by Joel Polinsky, of Theater Two in Boston. Class size limited, preference given to MIT community. Class meets for 10 weeks, starting Thurs, Sept 13, at MIT. Fee: \$25. Contact Steve Ivester, 864-6000 x2839, leave message.

Open House

Freshman Orientation Open House, sponsored by LOGO group of Artificial Intelligence Lab. Thurs, Sept 6, 9am-4pm, Rm NE43-337 (545 Tech Sq). All students welcome. Information, call Roseanne Brown, x3-3471.

Lecture Series - Karma Yoga*

Talks by Swami Chinmayananda on Karma Yoga, sponsored by SANGAM. Fri, Sept 7-Tues Sept 18, 7:15-8:45pm, Stu Ctr Rm 491; accompanied by Kenopanishad and practice of meditation, Fri, Sept 7-Tues, Sept 18, 7-8am, Stu Ctr Mezzanine Lge. Free and open to all.

MIT Community Players*

Meeting, with scenes by Theater Two. Mon, Sept 10, 7:30pm, Stu Ctr Mez Lge. Open to public. Refreshments.

MIT Club Notes and Meetings

Hobby Shop

September 5

September 14

through

Mon-Thur, summer term, 12n-5pm, Rm W31-031. Fees: \$10/term for students; \$15/term for community. Call x3-4343.

Kung Fu Club**

Northern Praying Mantis. Tues, Thurs, 7-9pm, T-Club Lounge. For info, H.C. Wong, 876-5071.

MIT/DL Duplicate Bridge Club** Tues, 6pm, Student Center Rm 473. Call Jeff, x3-5285 or 864-5571.

Outing Club Every Mon & Thurs, 5-6pm, W20-461.

Rugby Club**

Informal practice sessions: almost every Tues, Thurs, 5:30pm, Briggs Field.

Science Fiction Society* Fri, 5pm, Rm 1-236.

Scuba Club** Compressor hours, Mon & Fri, 4-6pm, Alumni Pool.

Strategic Games Society*

Club offers opponents and discounts on merchandise to members plus gaming periodical library. Call Kevin Slimak.

Student Committee on Educational Policy

General meeting, emphasis on omnibus project on degrees, grading, requirements and units. Wed, Sept 19, 7:30pm, W20-400. New people welcome. Info, call Max Farber, 266-7274 or Robert Sacks, 494-8889, or lve msg UA office, W20-401, x3-2696.

Student Homophile League No summer meetings. MIT gay phone, 492-7871, is active, Sun-Thurs, 8-11pm, (most nights aft 12m), for counseling, social activity info, help in "coming out," rapping.

Student Information Processing Board Meeting* Mon, 7:30pm, Rm 39-200.

Tang Hall

General meeting, Sun, Sept 9, 8pm, 24th fl lge. Residents only.

Tech Squares*

Western style square dancing. Tues, 8-11pm, Sala de Puerto Rico. Special beginner's dances: Sept. 4, 18, 25, Tues, 8-11pm, Sala de Puerto Rico. Come and try it. Admission: \$1, first time free.

Tiddlywinks Association Tues, 7-11pm, Stu Ctr Rm 407.

MIT Wheelman**

All aspects of bicycles and bicycling discussed, events planned, advice and help given. Thurs, 7:30pm, Rm 1-203. Call Harry, x3-2384

Social Events

24-Hour Coffee House

The MIT 24-Hour Coffee House has re-opened. Inexpensive food, candy, and non-alcoholic drinks are sold. Relax, play games, and read. Open: 24 hours daily, center lge, 2nd fl, Stu Ctr.

Pot Luck Coffeehouse

Free coffee, cider, and donuts; Friday, Sept 7 at 9:30pm in the Mezzanine Lge, Stu Ctr. Gayther Hillman will be performing.

Friday Afternoon Club**

Music, conversation and all the cold draft you can drink. Fri, 6pm, the Thirsty Ear, Ashdown basement. Admission: \$1 men, 50 cents women. Must be over 18.

Muddy Charles Pub**

Join your friends for music, beer, wine, snacks, conversation at the Muddy Charles Pub, 110 Walker. Hours: Mon-Fri, 11:30am-2pm and 4-8pm; call GSC, x3-2195.

Movies

The Second Best Secret Agent in the Whole Wide World* APO and LSC. Wed, Sept 5, 7pm, 9:30pm, Rm 10-250. Admission 50 cents, no IDs.

The Scarlet Claw

Basil Rathbone as Sherlock Holmes. APO and LSC. Thurs, Sept 6, 7pm, 9:30pm, Rm 10-250. Admission 50 cents, no IDs.

One Way to Ouit*

The CBS Film which stopped even the cameraman smoking.

Music Library Exhibit

Pictorial Exhibition, Mozart's Opera, the Magic Flute. Daily, Rm 14E-109

Religious Services and Activities

The Chapel is open for private meditation from 7am to 11pm every day.

Christian Bible Discussion Group*

Thurs, 1pm, Rm 20B-031. Call Prof. Schimmel, x3-6739, or Ralph Burgess, x3-2415.

Divine Light*

Satsang (discourses) on the knowledge of Shri Guru and Maharaj Ji, 15 year old perfect master. Every night, 7:30pm, Rm 2-390.

Protestant Worship Services*

Sun, 11am, Chapel

Roman Catholic Masses

Sun, 9:15am, 12:15pm, 5:15pm; Tues, 5:05pm; Thurs, 5:05pm; Fri, 12:15pm. Chapel.

United Christian Fellowship*

Meeting, fellowship, singing, praying, sharing. Newcomers welcome. Thurs, Sept 6, 7pm, East Campus Masterton Lge.

Announcements

Technology Matron's English Conversation Classes**

Beginning, intermediate and advanced level for foreign students and faculty wives. Registration: Fri, Sept 21, 10am-12n, Rm 10-340. 18 lessons, starting Tues, Sept 25, 9:30-11:15am. Tuition \$20, additional babysitting fee \$5.

Pre-Law Meeting

Meeting for all students interested in law. Mon, Sept 10, 5pm, Rm 9-150.

Science Library Tours

Tours to acquaint users with the Library's procedures & tools for information retrieval. Schedule: Tues, Sept 11, 1-1:30pm; Wed, Sept 12, 12:30-1pm; Mon, Sept 17, 11-11:30am; Thurs, Sept 20, 4:30-5pm.

Boston Area Seminar for International Student Needs Volunteers

BASIS needs dependable and friendly volunteers to meet and aid international students arriving at Logan airport, Aug 15-Sept 15. Prefer volunteers who can make weekly committment. Short preliminary orientation period necessary for volunteers. For infor-mation call Sandy Shriver, coordinator, 723-8225, afternoons, or MIT Foreirs Student Office v2.2705 MIT Foreign Student Office, x3-3795.

Library Student Staff

Part-time positions available, MIT students only, 8/27-9/10. Return-ing staff preferred. Call x3-5654.

Dining Service

Wed, Sept 5 Lunch: Old fashioned ham loaf w/fruit sauce Dinnner: Spaghetti - all you can eat

Dinner: Turkey newburg over toast points

Thurs, Sept 6

Lunch: Beef & vegetable pot pie Dinner: Veal parmesan

Fri, Sept 7

Tues, Sept 11

department and field.

September 7.

Lunch: Dixie baked chicken leg

Lunch: Chop suey over rice

Dinner: Breaded pork chop

Dinner: French fried filet of sole Mon, Sept 10 Lunch: Macaroni beef & tomato

Bridge Club

ACBL Duplicate Bridge. Thurs, 6pm, Stu Ctr Rm 473. IMP-scored team games, (similar to rubber bridge scoring). Special beginners' section (designed for newcomers to duplicate bridge) starting Aug 16. Call Jeff, x3-5285 or 864-5571.

MIT Chinese Student's Club*

CSC softball practice, every Sat, 2pm, Briggs Field. Refreshments. All are welcome.

Classical Guitar Society

Classes, group or private. Mon & Thurs, 5-8pm; Sat, 8am-12n; Rm 1-132, 134, 136. Vo Ta Han, 494-8353.

Course Evaluation Project Meeting

Meeting with TCA Executive Committee to review project, select project chairman, assign duties and responsibilities. Sat, Sept 15, 10am, TCA office Rm W20-450.

Division of Academic Projects-Staff Meeting*

Planning meeting, new people welcome. Wed, Sept 12, 7:30pm, W20-400. Info, call Robert Sacks, 494-8889 or lve msg UA Office, W20-401, x3-2696.

Goju Karate Club*

Open to the Cambridge Community. Mon, Thurs, 7-9pm, Stu Ctr Rm 407. Call 253-2018.

ollowed by Action on Smoking and Health Meeting. Fri, Sept 7, 12n, Rm 5-134.

The Good, the Bad, and the Ugly

LSC. Fri, Sept 7, 6 & 10pm, Kresge Auditorium. Admission 50 cents, IDs required.

The Mouse That Roared*

Starring Peter Sellers. APO and LSC. Sat, Sept 8, 7pm, 9:30pm, Rm 10-250. Admission 50 cents, no IDs.

Fritz the Cat**

LSC Registration Day Movie. Mon, Sept 10, 7 & 9pm, Kresge Auditorium. 50 cents, IDs required.

Dance

Folk Dance Club*

International, Sun, 7:30-11pm, Sala. Balkan, Tues, 7:30-11pm, Student Center Rm 491. Israeli, Thurs, 7:30-11pm, Sala. Afternoon dance break, Fri, 12:30-1:30pm. Kresge Oval.

Exhibitions

Hart Nautical Museum*

Permanent exhibit of rigged merchant and naval ship models, half models of yachts and engine models. Open daily in Bldg 5, 1st floor.

MIT's First Home Marked

* Open to the public

*** Open to members only

The sign marking the site of the old Mercantile Library Building, where MIT's first classes were held, has been moved to the corner of Summer and Hawley Sts. in downtown Boston, as part of the renovation of Kennedy's department store, which now occupies the site.

Freshmen are encouraged to attend departmental lectures and seminars. Even when these are highly technical they provide

students one means to learn more about professional work in a

** Open to the MIT community only

Send notices for September 12 through September 21 to the

Calendar Editor, Room 5-111, Ext. 3-3279, before noon Friday,

Dedication of the renovated store will be held Monday, Sept. 10, at noon with a brief ceremony at which Walter L Milne, assistant to the MIT Chairman, will speak. Kennedy's has set aside a window for a revolving historical display including photographs of MIT's early days.

Child Care Spaces Available

The Technology Children's Center has openings in the nursery school and the day care center for the fall term.

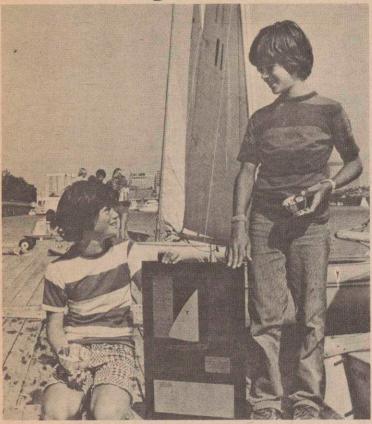
Spaces are available in all Eastgate nursery school groups which operate two, three or five days per week, depending on the child's age.

The day care center runs 8am to 5:30pm Monday through Friday for children between the ages of nearly three and five years old.

Call the Child Care Office, Ext. 3-1592 for further information on these and other child care programs.

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Midget Sailors



SAIL CHAMPS-Brian Keane, 12, left, and his brother John, 13, of Cohasset Yacht Club, won the Walter Wood Trophy at the 25th annual midget sailing championships held at the MIT Sailing Pavilion last week. Teams from 21 clubs in the Massachusetts Bay Yacht Racing Union entered. Trophy is named for Walter C. (Jack) Wood, MIT's former sailing master. -Photo by Susan Pogany

Water bed, kg sz, w/fr, htr, liner, \$90.

Antique pine chest, 4drs, bought Harvard Antiques, was \$145, will sacrifice. Caroline L, x3-2056.

Tires, Goodyr, 4, 6.00-13, 3mos, \$30 or best. Raul, x3-5053.

Bike, 23", 3spd, 1k new, \$50. Pete, x7284 Linc.

Hotplate, powerful, highspd, \$13; Olympia typwrtr, hrdly used, \$30. Lee, x3-1638.

Bike, Eng Raleigh, 5spd, gd cond, \$60.

Bed, sgl, box spr, matt, fr, gd cond,

Formica dinette tbl, 4chrs w/uphol bk

& st, \$65; 3 lg scatter rugs, non-skid, 2lilac, aqua, \$10 for 3; 19" Zenith tv. Mrs. Shechter, 298-0484.

Bed, sgl, w/fr, \$40. Steve, 734-4094.

rack; best. T. Kelly, x143 Linc.

\$40. Call, x3-2720.

comb,

x3-4271.

Snows, VW, mtd, gd cond; VW roof

Matt, 2, tw, foam, w/spr, exc cond,

Old style stu desk & chr comb, \$15;

used oil burner, gd cond, best. Harold Granek, x7216 Linc.

Sew mach, Singer, old tbl model, \$65 or best; bassinet, wh, \$10; stroller-crib

Phonos, 2, tbl, console, free for parts, must pick up Westwood. Call, x3-2032.

Dutch, \$30 or best. Lucy,

Scott, x3-5334.

Robert, x3-4765.

\$25. Linda, x3-7022.



Ads are limited to one per person per issue and may not be repeated in successive issues. All ads must be accompanied by full name and Institute extension. Only Institute extensions may be listed. Members of the community who have no extensions may submit ads by coming in person to the Tech Talk office, Room 5-111, and presenting Institute identification. Ads may be telephoned to Ext. 3-3270 or mailed to room 5-105. Please submit all ads before noon, Friday, September 7.

For Sale, Etc.

AC, Norge, 7000BTU, 3yrs, compressor still wrnty, orig \$185, ask \$95; bike, m, Schwinn, 3spd, perf cond, \$40. Sam, x3-2380.

Tires, 5, Dunlop, 6.15-13, 1 nvr used, 4 used 4K, \$75 or best. Call \$3-2021.

Bike, g, 3spd, lock, chn, bskt, \$20 or best. Call, x8-1440 Draper.

Playboy, 99 issues, \$50 or best; wint wardrobe, \$25; rock chr & ft stool, \$15; easy chrs, \$10-\$5; couch, \$10; 2 Wilson T-2000 tennis racket, nylon, \$25; tonneau cvr, Fiat 124 sport spider, \$30; auto repair manuals for Sprite (II, III, IV), MG midget (I, II, III), Fiat 124 sport thru '70, Chilton's Fiat '70. Bob, x3-2058.

Minolta Rokkor 200mm, f3.5 tele-photo, 10mos, \$130; Metz Mecablitz elec flash, \$45. Dick Browne, x366 Linc aft 4:30.

Scott 299-D stereo amp w/preamp, \$60; Scott LT-10 fm tuner w/EICO multiplex adapter, \$20; 2 grado mag cartridge transformers, \$5; spkr & cab free w/lot. Call, x3-7129.

Sears 800 top ld washer, grn, used 4 mos, \$200 or best. Call, x359 Linc.

Upright piano, \$100 or best; refrig, \$20; bureau, \$15; desk, \$10. John, x3-5934.

175cm Knerffel slalom racing skis. w/poles, tyrolean bindings, Heierling adj buckle boots (ladies sz 6), best. Susan, x231 Linc.

Beds, 2, w/hdbrds, \$10ea; DR tbl w/lf, 4chrs, gd cond, \$100; refrig, Welbilt, 2dr, 3yrs, \$100; man typwrtr to 1st purchaser. Arnie, x3-6712

Cabinets, 2, \$20, \$15; desk, \$27; DR tbl, \$13; tbl, \$8; fan, \$3; dresser, bureau, dbl bed, \$120; TV, Zenith, 19", b&w, \$100. Call, 494-8494.

Car stereo, Automatic Radio, 4 & 8 trks, head demag, quick removal bracket, \$30 or best. Dave, x3-7035.

Crib w/matt, \$20; car seat, \$7; infant st, \$1.50; diaper pail, \$2; bassinet, \$10; stroller, \$7; bath, \$1.50; sm bar-b-q std, \$1.50; playtex nrsr set, \$3; training st, \$1; gate, \$1.50; dresser, \$4. Call, x3-7769.

Sew Mach, Necchi, port, zig-zag, free standing arm for easy slv insert, orig \$200, ask \$75; clock-r, nrly nw, \$7. Call, x5778 Linc.

Garage doors, 2sets, 8'w, 71/2'l, gd cond, \$35. Pat, x3-4837.

Dbl matt & coil spr, gd cond, \$20; overstuffed chr, old but comfy, \$10. Call, 484-8270 evgs.

Typwrtr, SCM, classic 12, elite, w/case, exc cond, nw \$110, \$60 or best. Joe, x3-2677.

Longines Symphonette stereo, sm, non-port, gd cond, \$50. Sally Swigart, x0711 Dorm, lve msg.

Vivitar 200mm lens, \$75; 1890 Enc Brit, americanized, 10vol, fr-gd cond, \$25; whnt bkcse type bed frame, \$20; misc yd & grdn equip. Karolyn, x3-6010 m, w, f.

Chest, 5' tall, 21/2' deep, mpl, exc cond, ask \$30. Eileen, x3-3901.

Vehicles

Box spr & frame, qn sz, makes gd bed even w/out matt, \$25. Jeff, x3-5900.

> '58 MG-A, rare hdtp model, rebuilt mech, nw tires, paint, carpets, ask \$450. David, x3-1795.

> '61 Olds F-85, 4dr, V8, auto, rust &

'63 Chevy impala, 4dr, 97K, V8, v gd cond, snows w/rims, \$200. Vicky, x8-2579 Draper.

'64 Chevy II, 91K, runs ok now but nds lots of work, best. Call, x7377 Linc morn.

'64 VW, sed, sgl owner, v gd cond, \$450. Bob, x5892 Linc.

'67 MGB-GT, Brg, 54K, eng exc, body v gd, no rust, dent 1 fender, gd tires & susp, r, \$900. Call, x3-2281.

'68 Triumph spitfire, 42K, wire whis, \$600. George, x8-3644 Draper.

'68 VW bus, 65K, eng reblt 47K, rad tires, \$850. Ray Holland, x117 Linc.

'68 Austin American, 4spd, std, 52K, lks & runs great, \$650 or best; Scott 387 amfm stereo rcvr, 55w RMS per channel, less 2 yrs, not used since Jan, comp wrnty serv, \$200. Ken, x8649 Dorm.

'68 VW, convert, red, \$575. Steve, x3-6033.

'69 Saab 96, V4, 50K, gd cond, \$850 or best. Rod, x3-2824.

'69 Le Mans, 46K, 6cyl, auto, p st, gd cond, \$1,000. Ed, x3-4020.

'69 Fiat 850, convert, 60K, 30mpg, nw clutch, body nds wk, \$280 or best. Dan, x5894 Linc.

'71 Toyota Corona, 4dr, auto, 28K, exc cond, \$1,700. Peter, x8-1189 Draper.

'71 Volvo 142S, 36K, exc cond, \$2,400. Chris, 3-4132.

'71 Norton roadster, best over \$1,100. Roger, x7148 Linc.

'72 Toyota Celica, less 15K, ac, radials, snows, real cream-puff, \$2,500 firm. Call, 785-1423.

'70 Apache camper, solid state, all acces, exc cond, \$800 firm. William, x8-1243 Draper.

'71 Yellowstone camper delux, for 3/4 ton pick-up, \$2,100. Call, x8-4476 Draper.

'72 Yellowstone trailer, 18', slps 8, all but shower & h wtr, used 6x, spotless. Gene, x7787 Linc.

'68 Luger cabin curiser, 20', slps 2, 80hp Merc eng, port head, 2 props, camvas canopy top, 2 deck chrs, Sunoco trlr w/elec winch, must see to appreciate, \$2,200 or best. Larry, x8-4603 Draper.

Boat, sailfish style, 12', yr old, v gd cond, \$100 or best. Bill, x366 Linc.

Housing

Arl, 5BR, 2nd & 3rd fl apt, rent all or part, 1g DR, LR, K, 2 prchs, can amortize sum, rms \$60-\$90. Peter, 646-2427.

Belmont, victorian, 3stroy, 7BR, mod K & B, LR, DR, den, ideal loc, walk to schools, block to bus, n Belmont Ctr, high \$40's. Owner, 489-2818.

Bri, BR, \$179.50 incl h. Judy, x3-6101.

Camb, Eastgate, 2 BR, sub, 9/15-10/16, 27th fl, crnr. Call, 494-8259.

Camb, BR, lg K, LR, B, renovated, n T, avail 9/1. Laura, x3-1805.

Camb, 2BR, mod, ac, n T, avail now or later, \$245. Call, x3-7537.

Gloucester, ocnfrnt hse w/priv bch, 2BR, 1g mod K, DR, LR, den, full B, panel bsmnt w/wash & dry, sundeck, patio w/frplc, furn, ww, no pets, Sept-June, \$325/mo. Call, 1-281-1433.

Maine, n Rangely, 3BR hse, lux contemp on huge lk, wilderness area, superb view, swim, hike, fish, rent incl canoe. Jeannie, x8-2577 Draper.

Conway area, winter rental, 12/1-5/1, n duplex chalet, slps 12 ea apt. Dick Clark, x7139 Linc.

Child care or sitter, full-time, pref Bklne or Bri area. Call, x3-4476.

Ride bet Linc Lab and Beac St, Som, work 8:30-5pm. Call, x7222 Linc.

Rmmates, 3, m or f, 15acre estate, 45min s of MIT, own BR w/frplc, lots rm & privacy. Peter, 828-5016 evgs.

Freezer, gd cond; cotton leotard, slvless, adult sz. Call, 965-1495.

European musical fam lving in Camb will caretake or rent farm or cntry home, NH or Me, wilderness or island, exp in rugged life. Michelle, x3-6121.

Exp stu painters, make quick \$, pt lg rm, off Cent Sq, matl provided. Colin, 864-4417.

Part-time sect'y, Stu Art Assoc, Mon-Fri, 1-5pm, gd office skills, typing load light. Mimi Luft, Stu Ctr Rm 429, x3-7019 aft.

Kayak, touring, w/paddle, skirt, bags. Leonard, x3-2921.

Rmmate, m, hse in Concord, own Rm, LR, DR, 2B, frplc, attic, cellar, pking, \$87.50. Paul, x3-2270.

Rmmate, f, 22+, 9/1, spac Belmont apt, w/f (23), own rm, K, LR, DR, 2encl prch, attic, part furn, qt str off Trapelo Rd, bus line to H Sq, \$100+util. Diana, x3-7555.

Ride, Greenwood sec Wakefiled to MIT, will pay v well, hrs flex. Josephine, x3-3727.

Positions Available

Employees at the Institute should call their Personnel Officer for further information.

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73-266-R

73-772-R

73-531-R

73-750-R 73-754-R

73-443-R

73-525-R

73-698-R

73-609-R

73-840-R

73-768-R

73-429-R

73-671-R

73-680-R

73-721-R

73-751-R

73-775-R

73-809-R

73-793-R

73-716-R

73-828-R

73-829-R

73-784-R

73-698-R

irginia Bishop	3-1591
ike Parr	3-4266
nilip Knight	3-4267
ecretary – Joy Dukowi	ťz)
lly Hansen	3-4275
ck Newcomb	3-4269
elyn Perez	3-2928
ecretary – Mary Ann F	oti)
ck Higham	3-4278
t Williams	3-1594
audia Liebesny	3-1595
ecretary Dixie Chin)	

New applicants should call the Personnel Office on extension 3-4251 to make appointments and confirm openings.

The following positions are on Hold pending final decisions:

Sen Lib Asst IV-V Sen Lib Asst IV 73-714-A 73-835-R Lib Gen Asst III 73-818-R

The following positions have been filled since the last Tech Talk and are no longer available:

Acct Rep [Cancelled] Tech Asst [Cancelled] Secretary IV DSR Staff Med Tech-Acad Staff **Computer Operator IV** Secretary IV Secretary IV Secretary IV Secretary III Secretary III Secretary III Secretary III Secretary III Senior Clerk IV Senior Clerk III Dietary Aide Nurse Aide III Sen Lib Asst IV Secretary IV Secretary IV Secretary IV Secretary IV Secretary IV 73-802-R Secretary IV

'56 Desoto, v gd cond, gd tires, exc body, no rust, hemi-hd eng, p st & br, \$300. Call, x3-5589.

asst idiosyncracies, trans nds wk, \$75. Fonstad, x3-4634.

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(Continued from page 9)

tive of the Institute to minority communities. Within the Institute the Assistant will be a member ex-officio of the Equal Opportunity Committee, the Administrative Council, and such other MIT groups as may be deemed desirable in order to carry out his or her responsibilities effectively. The Assistant will be a point of appeal for complaints of discrimination because of minority status, with principal responsibility for the handling of charges of discrimination filed with MCAD, EEOC, HEW, or other agencies.

Qualifications must include an advanced degree or appropiate equivalent experience and concern with minority problems and interests, and interpersonal skills. It is expected that the Assistant will be familiar with university life and procedures, and will have demonstrated the qualities of judgment and communications skills required by the position. 73-646-R (7/11).

Staff Recruiter (Admin. Staff) will report to the Employment Officer; will be responsible for coordination of search for well-qualified persons to fill non-academic staff positions. Particular emphasis will be given to assisting laboratories, centers, and departments in fulfilling Affirmative Action Plans with respect to research staff openings. Person will work closely with Personnel Officers and departments in defining description of positions and qualifications required. Frequent travel will be expected; experience in Personnel and/or recruiting required. Technical background with degree in Engineering or Science preferred. Please submit resume. 73-643-A (7/18).

Administrative Staff member will work in the area of resource development dealing with individual contributors. Develop strategies and programs, prepare reports, provide advice and counsel of a legal nature for resource development activity. Some travel required to represent MIT. Must have legal training and preferably some experience as a counselor in practice or a job situation utilizing legal training. Writing and organizational ability, motivation, enthusiasm, required. 73-480 (5/30).

Economic Research Assistant – DSR Staff member will work on regional economic research on transportation and energy problems, write research reports for government agencies, submit computer runs, maintain large multi-regional input-output data bank. Excellent background in economics, minimum one semester of linear afgebra, experience on IBM 370/165, 1-2 yrs research experience, familiarity with FORTRAN programming required. 73-798-R (8/15).

DSR Technical Staff – in the Center for Advanced Engineering Study Video Operations group will plan, produce, shoot, and edit motion picture films, This individual will head an initially small film unit. Extensive knowledge of all aspects of film production is expected, including the ability to shoot "Cinema Verite" and industrial films, record cync sound, edit film and tracks, conform originals to work prints, and supervise laboratory procedures. The small size of the video operations group will also require initially that occasionally the individual will operate a professional TV camera. 73-799-A (8/15).

DSR Staff member will plan, manage, and execute high-quality research projects having a strongly experimental orientation. Familiarity and experience with low-speed flight and wind tunnel testing methods and advanced piloting qualification for particularly general aviation type aircraft; Ph.D. in Aerodynamics and five years applicable research and development experience required. 73-488-A (6/20).

ence on Time Sharing Systems; familiarity with TSP-Csp required. Position is temporary until 6/74. 73-845-R (8/29).

Environmental Engineer (Adminis trative Staff) in Physical Plant will organize and direct an Institute-wide energy conservation program. Survey campus buildings to determine areas of possible energy economy; plan procedures; maintain the Institute's compliance with environmental require-ments. BS in Electrical Engineering a basic knowledge of building with Mechanical Systems for heating, ventilating and air conditioning. Experience in engineering design or operation or academic industrial or commercial buildings. Experience in energy conservation helpful. 73-875-R (9/5).

Administrative Staff – Assistant Director in an administrative office dealing in resource development will handle specific tasks of educational fundraising; extensive writing of letters, memoranda, statements on priorities, some proposals and informational studies. Must have a minimum of three years active, consecutive experience in fund-raising, preferably in a university environment. Effective writing skills, ability to communicate verbally, professionalism and career motivation important. Exposure to data processing systems useful, BA required; advanced degrees are welcome. 73-479-R (9/5).

Architect/Programmers – (Administrative Staff) in the Planning Office will work on the development of architectural programs for Institute buildings. Research and conduct pre-programming investigation of existing spaces and develop design Criteria and Standards for new facilities. Degree in Architecture; background in research methods; experience in design and general architectural procedures required. 73-879-R (9/5).

Planner/Architect – (Administrative Staff) in the Planning Office will concentrate on long-range planning for the Institute. Survey and anyalyze exisiting environmental conditions, define problems, develop plans and design concepts. Degree in Architecure required; Degree in Planning preferred. Minimum of 5yrs. experience and the ability to work independently important. 73-880-R (9/5).

Systems Programmer – Administrative Staff in the Programming Development Office will design, code, debug, and document programs or set of programs which will interact with the operation system. Will work on Multics. Knowledge of PL/1 operation systems and time-sharing; ability to design, code, and document required. 73-848-R (8/29).

Mechanical Engineer – DSR Staff in the Electrical Engineering, Electronic Systems Laboratory will participate in a research project involving the application of modern technologies to selected service industries; design automatic materials-handling equipment. B.S. degree; experience in mechanical design of automation equipment is required. Familiarity with computer control of mechanical systems and digital-toanalog conversion techniques also desirable. 40 hr. work week. 73-849-R (8/29).

Micro Automation Systems Programmer – DSR Staff member will develop a PDP-10/PDP-11 operating system for the project; design and implement a computer operating system. Experience on the PDP-10 and PDP-11, as well as a background in automata theory is required. 73-512 (6/20).

Administrative Staff – Associate in the Analytical Studies and Planning Group which provides staff support to the officers and to the Academic senior and administrative programs, plans, and organization. The ASPG is a part of the Office of the President and the Chancellor and reports to the Vice President C.B. Simonides. Candidates position should have an for this educational background equivalent to graduate study, and/or working experience in areas such as management, program planning, analysis and evaluation. Systems analysis and computational background and skills would be especially helpful. Superior communication and writing skills are essential. This position offers very useful career preparation for senior responsibility in universities and other complex organizations. 73-461-R (5/30).

have some project management experience, an understanding of operating systems, and a good working knowledge of assembler language. 73-795-R (8/15).

Administrative Staff – Applications Programmer in the Office of Administrative Information Systems will take program specifications and translate them into an efficient computer program. The process includes the evaluation of specifications, flowcharting, coding, testing, debugging, and final program documentation. Knowledge of IBM DOS, ANS, COBOL and/or PL/1 and 360 Assembler Language desirable; experience with university accounting or teleprocessing applications helpful. 73-776-R (8/15).

Administrative Staff Programmer for the MIT Information Processing Center must have experience and thorough knowledge of large-scale time-sharing computer system. PL/1 language, documentation and communication skills are necessary qualifications. The Users Services Group requires an individual who understands and is responsive to the needs of the Center's users. This person will be challenged in entering a new area of time-operation for this group which includes the following: User Assistance – assisting users by

User Assistance – assisting users of providing programming information and debugging help and tracking down special problems.

User Information – instructional documentation and conducting seminars, workshops, and other courses. 73-640-A (7/11).

DSR Staff member in the Energy Laboratory will assist in the construction of a mathematical energy model for US supply and demand. Gather data, participate in econometric model building and analysis of various energy sectors. S.B. degree in economics with econometrics and mathematics background desired. Experience in FOR-TRAN programming and use of Econometric Software Package necessary. Ability to interact and communicate with a large interdisciplinary group working on the project important. 73-752-A (8/8).

DSR Staff member will perform chemical assays for enzyme and neurotransmitters. SM or MS degree in Chemistry required. 73-590-R (6/27).

DSR Staff – Systems Analyst at Cambridge Project will adapt Time Series Processor programs for use within the Consistent System on Multics. Knowledge of calculus, econometrics, statistics, and linear algebra; extensive PL/1 programming experience on Time Sharing Systems; familiarity with TSP-CSP required. This position is temporary until 7/1/74. 73-749-R (8/8).

DSR Staff in Metallurgy will carry out original research on single crystal growth of semiconductor materials from the heet employing advanced techniques of Peltier cooling and heating at the interface. Will use scanning electron microscopy, Hall measurements, and other instrumentation. Degree in chemistry or Metallurgy. Several years experience with semi-counductor crystal growth and characterization. 73-870-R (9/5).

DSR Staff at the Operations Research Center will assist principal investigator with a project on urban public safety systems by conducting literature search and nation-wide telephone interviews on police performance measures; write project press release; assist with symposium planning; perform some office duties, such as large mailings etc. B.A. required; previous experience in information transferral and research in the area of public systems required. Excellent typing and previous secretarial experience preferred; as well as experience in areas of health care systems and criminal justice systems. 73-866-R (9/5).

Research Assistant - DSR Staff at the Energy Lab will participate in and coordinate an ongoing research and development program in thermal systems and heat transfer. Work includes heat transfer equipment design, test instrumentation, testing, analysis, optimization studies and direction of related efforts by graduate students and engineers. Candidate must be familiar with power plant engineering, heat transfer instrumentation, detailed analysis of fluidized bed heat transfer phenomena and convective heat trans-Experience in directing work by graduate students and graduate engineers. 73-801-A (8/22).

Administer first aid and emergency treatment; assist physicians with minor surgery. Individual must be a Mass. Registered Nurse with previous emergency room or industrial nursing experience. 73-744-R (8/8).

Industrial Hygienist – (Academic Staff) will work in the Environmental Medical Service to study and control occupational disease and other environmental factors such as noise, heat, pressure and toxic materials that may be physically or chemically hazardous to employee health. Will work closely with physicians, depts, supervisors. BS in Chemical Engineering is required. 73-336-A (4/29)

Applications Programmer – (Exempt) in the Office of Administrative Information Systems will translate program specifications into efficient computer programs; evaluate specifications, perform coding, testing, debugging, flowcharting, and final program documentation. Knowledge of IBM DOS PL/1 and/or COBOL required. Knowledge of 360 Assembler Language and/or 1401 Autocoder desired. Experience with university, accounting, or teleprocessing applications helpful. 73-821-R (8/22).

EDP Coordinator – (DSR Staff) will maintain the software systems and expand the operating systems for a computer facility; assist users; determine loads and aid in scheduling. Will work with students and faculty in developing and maintaining systems for academic computer usage. Individual must have experience in machine language programming and operating systems; detailed knowledge about compilers, interpreters, schedulers, priority processors, and basic knowledge of computer hardware. Degree in computer science required. 73-537-R (6/6).

Computer Systems Analyst – DSR Staff – in Electrical Engineering/ Electronic Systems Laboratory will work on research and development projects in information retrieval including networking of I-R systems. Develop systems, research computer interfaces for interconnecting heterogeneous I-R systems, develop information centers by which individuals can access all sources of information. Broad experience with hardware and software computer systems; experience with PL/1, 360/370, MULTICS, or ARPANET systems; programmer supervisory experience and an advanced degree required. 73-691-R (7/25).

Systems Programmer – DOS – Admin. Staff will provide technical expertise; develop and implement methods of improving computer performance. Minimum of two years S/360 or S/370 BAL (ALP) Assembler Language Programming experience. Knowledge of teleprocessing, and COBOL or PL/1. 73-265-R (4/2).

Systems Programmer DSR Staff will work in the Program Development Office as a full-time Multics Systems Programmer. Two or three years experience with Multics system and PL/1 is required. Other experience in system design and programming desirable. 73-466-R (5/23).

Administrative Assistant - (Exempt) in the Center for Transportation Studies will assist the Director and steering committee in organizing and coordinating the activities of the Center; administer short courses, advisory panel meetings, conferences; monitor accounts of research projects and programs; assist in the preparation of research proposals; maintain files on faculty, students, contracts, proposals, publications; assist with administrative procedures. Knowledge of Institute administrative procedures and practices, DSR accounting methods, organizational structure important. initiative and ability to organize to set priorities and to pursue objectives with and diplomacy is essential. tact 73-805-A (8/22).

reports. Maturity and tact; organizational ability, flexibility to work with many different people, extensive knowledge of the Institute and good office skills are required. College background preferred. 73-803-R (8/22).

Secretary IV to the Head of the Engineering Library will handle all general secretarial duries as well as act as receptionist for library visitors; compile financial statements; responsible for several payrolls and petty cash. Good secretarial training and experience desired. Accounting or bookkeeping skills are necessary. 73-853-R (8/29).

Secretary IV in the Harvard-MIT Health Science and Technology Program will handle all general secretarial responsibilities for a professor in Biomedical Engineering, and his associates. Assist in organization of proposals and manuscripts. Knowledge of medical terminology or a good vocabulary helpful; good skills important. 73-844-R (8/29).

Secretary IV to a professor in the Research Lab of Electronics will assist with library research and provide general secretarial support. Excellent shorthand and typing are required; ability to handle technical material in text and drawings important. 73-832-R (8/29).

Secretary IV to several faculty members and one visiting professor in Economics. Provide general assistance and perform secretarial duties; type class material, memos and correspondence; maintain busy calendars. Good typing and the ability to work for several people is required. 73-785-R (8/15).

Secretary IV will provide secretarial support for the Administrative Officer of the Educational Council. Individual will be responsible for several office procedures, including travel arrangements, scheduling appointments; transcribing correspondence from dictaphone. Minimum of two years secretarial experience, good typing skills required. Initiative and willingness to assume responsibility important. 73-778-R (8/15).

Secretary IV in the Research Laboratory of Electronics will provide secretarial support for a faculty member and research staff. Type technical manuscripts, set up material from rough data and verify footnotes and references; maintain busy calendar; independently handle other procedures. Excellent typing skills required; technical typing experience preferred. 73-780-R (8/15).

Secretary IV in the Center for Advanced Engineering Study will be responsible for all general secretarial duties; research topics using a variety of sources. Assist with make-up and operation of some equipment during videotaping and filming; time and log material. Production assistant experience, good typing required. 73-858-R (8/29).

Secretary IV will perform secretarial duties for the administrative officer of an academic department. Maintain department contract and personnel records. Excellent shorthand, dictaphone, typing skills needed. Organizational ability, familiarity with keypunch or computers desirable. 73-390-R (5/9).

Secretary IV in Psychology will type articles and papers, schedule appointments, handle travel, maintain files, take dictation for one professor. Secretarial training or previous experience important. Maturity and good general skills required. 73-704-R (7/25).

Secretary IV to Associate Director of an Administrative group will type bulletins, correspondence, minutes of meetings; maintain committee records and files; arrange travel; monitor and process solicitation materials returned by alumni. Will also independently answer routine inquiries. Excellent typing, shorthand, and a flair for details required. Overtime sometimes necessary. 73-585-R (7/25).

Biochemist – DSR Staff member will participate in lipoprotein studies, and will supervise the activities of several technicians in a clinical research setting. Ph.D. or M.D. in Biochemistry required, as well as experience with lipoprotein and supervising. 73-515-R.

DSR Research Staff at the Center for Space Research will be Senior Research Physicist. Peform data reduction and related scientific analyses associated with MIT plasma experiments, primarily Mariner-Venus-Mercury and IMP-J. Assist and supervise experimental work related programs within the Center. Ph.D. in Physics with graduate work in Astrophysics or a related area, at least a year of postdoctoral research, and extensive experience with satellite-borne experiments and instrumentation required. Excellent mathematics background, with solid experience in computer programming desired. 73-831-A (8/29)

Systems Analyst – DSR Staff at the Cambridge Project will adapt Time Series processor programs for use within the Consistent System on Multics. Knowledge of calculus, econometrics, statistics, and linear algebra; extensive PL/1 programming experiAdministrative Staff Planner will direct long-range physical planning for the Institute; monitor and coordinate the various efforts of the planning team; develop budgets and schedule of events. Will act as liaison between government agencies and community groups. Must have a Masters degree in Planning and a minimum of 5 years experience. 73-535-R (6/13).

Administrative Staff – Systems Programmer will work full time in the Programming Development Office on the 370/165. The job will consist of systems programming and maintenance, systems assurance, and user interface functions. Applicant should Infirmary Nurse – (Exempt Staff) will do bedside nursing in the Infirmary. Assist surgeons in the operating room, administer first aid and emergency treatment after clinic hours. Mass. Registered Nurses license required, as is previous nursing experience, preferably emergency room or industrial nursing. This position is on permanent night shift (11pm-7am) with weekend rotation. 73-731-R (8/8).

Infirmary Staff Nurse Part-Time – (Exempt) will work in the MIT Infirmary on the day shift Sat, and Sun, and one day during the week.

Computer Operator IV will operate IBM Model 135 and all peripheral equipment associated with it, including disk drives, tape units, card reader/ punch, printers. Must have a good knowledge of DOS job control, multiprogramming experience and be capable of understanding operating instructions. 4pm - 12:30am shift. 73-92-R (8/29)/73-859 (9/5).

Senior Keypunch Operator III will operate the IBM 029 keypunch machine. Will punch into computer input cards formatted and unformatted documents. Minimum of two years experience operating IBM 029 or comparable equipment; familiarity with the creation of program drum cards desired. 73-574-R (6/27).

Senior Secretary/Administrative Assistant V will give assistance to the Technology Matrons volunteers in carrying out both short-term and confinuing programs serving students and other members of the MIT community. Maintain membership files; coordinate mailings; type and distribute minutes of meetings; keep financial records and make desposits; compile and distribute the annual Secretary IV in Ocean Engineering will perform secretarial duties for one professor and several research assistants. Type correspondence, technical reports, some theses, notes from dictation and written drafts; handle accounting for DSR accounts; schedule appointments and travel arrangements. Excellent shorthand and technical typing skills, knowledge of accounting required. Individual must be mature, well organized and able to work under pressure and supervision. Familiarity with MIT procedures and policies is preferred. 73-812-R (8/22).

Secretary IV in the Transportation Division of Civil Engineering will handle all the secretarial duties for the office; maintain student records for Admissions Officer; may assist with the department newsletter. Good typing is required; ability to organize work with a variety of people important. 73-864-R (9/5).

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Secretary IV in the Patent Section of the Office of Sponsored Programs will handle all office procedures for an attorney. Answer routine correspon-dence on own or from oral instructions. Maintain patent applications and case files; prepare documents for filing with patent office; transcribe dictation involving technical and legal terminology. Excellent, rapid typing and good shorthand are required for typing long patent applications, occasionally under pressure. Previous experience desirable. 73-819-R (8/22).

Secretary IV to two professors in Civil Engineering will type legal and environmental papers, course notes, exams: perform all other general secretarial duties. Good typing required; short-hand or dictaphone skills are helpful; organizational skills important. 73-856-R (9/5).

Secretary IV in the Clinical Research Center will transcribe from dictating equipment patient records; type manuscripts and speeches. Knowledge of medical terminology and secretarial school training is preferred. 73-763-A (9/5).

Secretary IV in the Planning Office will be responsible for all general office duties for several architects. Previous secretarial experience; knowledge of light accounting; strong typing skills required. Temporary until 7/74. 73-878-R (9/5).

Secretary IV (Part-Time) - in Civil Engineering will handle all the general secretarial duties for staff members in the departmental Student Information Office. Previous experience and good typing a must. 20 hour work week. 73-882-R (9/5).

Secretary IV to two physicians in the Medical Department will transcribe medical reports and case histories, schedule appointments, handle other general secretarial duties. Experienced secretary with excellent typing and the ability to transcribe medical terminology required. 73-873-R (9/5).

Secretary IV in the Analytical Studies and Planning Group located in the Office of the President and Chancellor. Provide secretarial support for staff members; assist with preparation of major documents such as the Report of the President and Chancellor and Institute Catalogues. Excellent, accurate typing and proofreading necessary; ability to arrange and coordinate complicated appointment schedules; ability to work independently under pressure and handle confidential materials; willingness to assume responsibility important; overtime sometimes necessary. 73-824-R (8/22).

Secretary IV (Part-Time) in Architecture will handle all secretarial and clerical duties for the History of Art Program. Type manuscripts for publication, books, correspondence; maintain filing systems; assist in some library research. Excellent typing; fluency in reading and writing French; familiarity and/or background in art history required. Twenty-hour work week. 73-823-R (8/22).

Secretary IV will perform secretarial duties to the Director of the Artificial Intelligence Lab. Take and transcribe technical dictation; type manuscripts on a typewriter and/or a computer terminal; edit with the computer manuscripts for inclusion in reports and proposals; coordinate the work of other secretaries in the section; answer routine correspondence. Accurate, proficient typing skills required. Previous experience desired. 73-808-R (8/22).

Secretary IV to the Mechanical Engineering professors will set up and maintain files; arrange meetings and schedule appointments; type from handwritten drafts and machine dictation; prepare lecture notes and assign-Previous office experience, ments. good skills (preferably technical typing) required. Ability to organize and recognize priorities important. 73-806-R (8/22).

Secretary III-IV to several professors in Humanities will type correspondence, papers, and books in the fields of art and science and handle all other general duties. Rapid, accurate typing: dictaphone skills; initiative required. 73-846-R (8/15).

Secretary III-IV in Urban Studies and Planning will handle all standard secretarial duties for three professors including travel arrangements. Secretarial school training and some practical experience desired. Good typing and dictaphone skills important. 73-842-R (8/29).

Secretary III-IV (Temporary/nine month job) in the Humanities Department will work in Kresge for the Music Section and Dramashop. Act as liaison between students and music organizations at MIT; responsible for concert productions - programs, tickets and distribution, publicity, and some bookkeeping. An experienced typist with interest in music and/or drama is desired. September through May. 73-847-R (8/29).

Secretary III-IV to a professor and staff in Earth and Planetary Sciences. Handle general secretarial duties intyping technical materials cluding Strong skills, ability to proofread and required; maturity and good judgment important. 73-827-R (8/29).

Secretary III-IV to a group of faculty and instructors in Mathematics will handle general duties of making travel arrangements, typing correspondence, filing. Good typing skills are important since the bulk of the workload is typing mathematical menuering typing mathematical manuscripts, quizzes, exams, notes. Willingness to learn technical typing desired. 73-783-R (8/15).

Secretary III-IV in Physical Plant will secretarial duties for the perform Support Service Group and coordinate the work for one other clerical employee. Type correspondence and reports, answer phone and handle general inquires. Excellent typing skills required, speedwriting or shorthand desirable; ability to work independently important. 73-804-R (8/22).

Secretary III-IV to the faculty and staff of a large research group at the Research Lab of Electronics will type a variety of material; handle all general office duties; develop and maintain filing systems for computer data. Good typing skills, ability to organize important. 73-833-R (8/29).

Secretary III-IV to a professor in Metallurgy and Materials Science will type manuscripts and correspondence, handle all standard office duties. Good skills; shorthand desirable; ability to organize important. 73-837-R (8/29).

Secretary III-IV in Economics will handle regular secretarial duties for two professors; type class material and research reports (some technical). Both professors teach undergraduate and graduate courses and are active with students' thesis research. Shorthand or peedwriting and good typing required. Ability to work independently impor-tant. 73-872-R (9/5).

Secretary III-IV opening in an academic department working for 2-3 professors. Good skills of shorthand and typing, organizational ability and experience required. 73-323-R.

Secretary IV in Mathematics will handle general secretarial duties for a group of professors and instructors. Type mathematical papers, oversee the department Reading Room, make travel arrangements, maintain files and records. Shorthand, experience or the ability to learn technical typing re-quired. Organization ability will be important for working for several busy people. 73-742-R (8/8).

Secretary III-IV to two professors and one staff member in the Sloan School of Management. Prepare materials for courses in the management science/ marketing field. Type manuscripts (some technical typing), exams, reports; handle all duties in one-secretary office. Excellent typing, shorthand or speedwriting. Ability to work with details important. 73-735-R (8/8).

Secretary III in Nutrition and Food Science will perform standard secretarial duties for a group of faculty members and other research personnel. Good typing and shorthand skills important; some knowledge of medical, biological and/or technical terms helpful but not necessary. 73-852-R (8/29).

Secretary III in the Office of the Dean of the Graduate School will handle reception duties; type and maintain files of fellowship awards and other records; type correspondence from dictaphone and handwritten copy. Excellent typing, shorthand; busine school training or experience helpful. Ability to deal with students and visitors important, 73-836-R (8/29).

Secretary III at the MIT Press will enter orders onto computer-assisted subscription fulfillment system; type correspondence and invoices; answer claims and questions about journal prices. Previous exposure to use of computers in business or experience in journal operations preferred but not necessary. 73-857-R (8/29).

Secretary III in the Aeronautics and Astronautics Department will assist the Undergraduate Officer with student registration. Type correspondence and technical reports for two professors, as well as handle all general office duties. Shorthand skills not required but helpful. 73-850-R (8/29).

Secretary III - Part-Time in Urban Studies and Planning will type correspondence, reports, manuscripts, and other material from dictaphone and rough copy. Good typing skills are needed since this position involves a heavy typing load. 25 hour week (9am-3pm). 73-830-A (8/29).

Secretary III to the Vice President for Administration and Personnel and to the Administrative Assistant in that office will handle heavy load of typing, transcribe from dictating equipment, maintain active calendar, serve as office receptionist, maintain files and answer phones. Good languate skills, ability to take accurate messages are essential. Knowledge of Institute policy and resources desirable to provide assis-tance to a large number of callers and vistors. Will use IBM Executive type-writer, 73-737-A (8/8).

Secretary III to two Professors and the Soils Division Head in Civil Engineering. Duties will include typing, answering phones, filing. Ability to coordin-ate duties and recognize priorities important; strong typing skills a must. 73-789-R (8/15).

Secretary III in the Medical depart-ment will work at the MIT Infirmary and perform secretarial/receptionist duties for the Pediatric Clinic. Answer phone, schedule appointments, maintain records, process patient bills, perform typing for the clinic. Excellent typing skills and telephone manner required. Ability to relate to patients, particularly young children important. 37½ hour work week. 8:30-5pm. 73-820-R (8/22).

Secretary III to four faculty members in Economics will type class material and research papers, arrange travel, maintain files and handle other general office duties. Good typing skills; knowledge of grammar and spelling would be helpful. Ability to work for several people with frequent interruptions from students and telephones important. 73-774-R.

Secretary III-IV in Personnel Benefits Office will answer phones and explain benefits to employees and faculty. Excellent typing skills and shorthand or speedwriting are needed. Knowledge of insurance, pensions, or medical plans would be helpful. Initiative, poise, and the ability to clearly explain benefits important. 73-687-R (7/25).

Secretary III in the Industrial Liaison Office will take and transcribe dictatyping from machine dictation. Good secretarial skills required; secretarial school training preferred. 73-884-R (9/5).

Secretary III for a group of faculty members and research staff in the Research Laboratory of Electronics. Type technical manuscripts, including setting format and verifying footnotes and references; handle all other general office duties. Excellent typing experience preferred. 73-861-R (9/5).

Secretary III in the Industrial Liaison Office will handle dictation, transcrip-tion, travel arrangements for one staff member servicing major industrial concerns in their dealing with MIT. Secretarial school training; strong typing, shorthand, and spelling skills essential. Previous experience helpful. 73-971-R (9/5).

Secretary III at Technology Review will assist with general office assignments. Fill mail and telephone requests for magazines and reprints; sort news material; type manuscripts and letters. Good skills in spelling and typing important. 73-868-A (9/5).

Documentation Editor V in the Office of Administrative Information Systems will assist in the development of presentation materials. Edit and develop finished copy from draft docu-mentation. Review submitted documentation for clarity and completeness, recommend changes. Minimum 3 years EDP experience; operations expe rience with programming knowledge preferred. 73-867-R (9/5).

Senior Clerk IV in the Summer Session Office will assist with the updating of mailing list; compose and type corre-spondence; plan and coordinate largescale mailings; coordinate the work of several others in the office. Excellent typing essential; minimum 2 years experience required; ability to organize and work with details important. Knowledge of dictaphone helpful. 73-860-R (9/5).

Section Head V will supervise the publications section of an administrative office. Individual will be responsible for preparation of periodic publications listings; distribution of MIT reports outside of the Institute; contacts with MIT departments and laboratories, budget management, and development of effective systems for record keeping and activity statistics. Good organization and supervisory skills and a careful attention to detail are required. Must be able to work independently, sometimes under pres-sure. 73-797-R (8/15).

Senior Clerk III-IV in Earth and Planetary Sciences will share the workload of four professors with another secretary. Will file, arrange travel, answer phones, handle purchas ing and invoicing procedures on 20 research contracts. Ability to do some typing; willingness to perform clerical and administrative chores important. 73-767-R (9/5).

Senior Clerk III in the Work Control Center of Physical Plant will receive, classify, and edit requests for service; handle other routine clerical assignments. Previous business experience; good office and clerical skills; ability to work accurately with details important. 40 hour work week. 73-863-R (9/5).

Pavroll Clerk III in the Comptroller's Accounting Office will maintain and update department master file and lists. Monitor and clear charges from terminated accounts; prepare adjustment reports and maintain sickleave and vacation balances. Accurate typing skills needed; ability to deal effectively with those seeking assistance is impor-tant. 73-876-R (9/5).

Senior Clerk III at the MIT Press will apply cash to accounts receivable statements on a computerized system. Knowledge of basic bookkeeping and accounts receivable experience required. Previous experience on computerized system is helpful. 73-865-R (9/5). experience in a data processing environment desirable. 73-684-R (7/25).

Clerk Typist II in the Student Loan Office of the Accounting Office will maintain borrower accounts files; anwer student's questions; assist the loan officers and the account representatives in the preparation of special reports. Accurate typing needed for correspondence; ability to work with details important. 73-877-R (9/5).

Clerk-Typist II (Part-Time) in Nu-trition and Food Science will handle general secretarial duties for the Administrative Officer. Excellent typing skills required. 20 hour work week. 73-874-R (9/5).

Clerk-Typist II in the Student Financial Aid office will type correspon-dence and reports; gather data for office studies and assist with reception duties. Good typing skills are required. 73-883-R (9/5).

Clerk II (Part-Time) in Preprofessional Advising and Education will assist in mailing premedical letters of recommendation to medical schools; maintain files; answer questions from students and faculty. Accurate typing skills needed; ability to work indepen-dently important. 14 hour work week. 73-794-R (8/15).

Technical Assistant V in Nutrition and Food Science will order, house, weigh, feed and water rats. Mix diets, order components; autopsy animals; collect and weigh tissues; prepare tissues for chemical assays; wash lab glassware, including acid-washing. These responsibilities require a person with some sense of career commitment. Individual must understand the care of research animals, and have experience in conducting experiments involving animals. 73-811-R (8/22).

Library General Assistant III (Part-Time) – in the Catalogue Department of the Libraries will handle materials in the Cyrillic alphabet; perform bibliographic searching; type master catalogue entry; perform other clerical duties of reclassification and cataloguing. Experience and accuracy in typing on Cyrillic Selectric; ability to interpret complex directions important. Library experience of value but not essential. 14 hour work week. 73-885-R (9/5).

Library General Assistant III (Part-Time) in the Chemistry Reading Room will assist with operational responsi-bilities; perform varied clerical assignments; clean microreading equipment; assist users and answer general questions. Previous library experience desirable; accurate typing and ability to work independently with details required, 25-hour work week. 73-854-R (8/29).

Infirmary Diet Aide in the MIT Infirmary will heat meals in a microwave oven; prepare, serve, and collect food trays; keep dishes and kitchen clean and orderly. May assist with housekeeping chores. Mature, reliable individual with previous experience in food services preferred. 7am to 3pm or 11am to 7pm shift; weekend rotation. 73-843-R (8/29).

Senior Audio-Visual Specialist in Graphic Arts will test and maintain audio visual equipment, including TV cameras, projectors, sound systems, power supplies, etc. Keeps records of equipment repaired. Will do other related duties as assigned. Graduation from a 2-year technical day school or its equivalent and a minimum of years applicable experience required. Experience in all phases of electronic repairs, knowledge of broadcast video signal specifications required. Ability to trouble shoot and repair all types of amplifiers, pre-amps, tuners, etc re-quired. 73-559-R (8/29).

Carpenter in Physical Plant must have a minimum of 5-10 years experience in the trade with emphasis on finish

Secretary IV will work in Center for Theoretical Physics for three-four professors. Must be able to work well in busy, pressured office; establish work priorities; type technical manuscripts, correspondence, class notes, papers. Some telephone work. Typing and shorthand skills must be excellent. 73-630-R (7/11).

Secretary IV in Physics Department to head of the Optical Maser group will assume wide responsibilities for output of large volume of work for a very active group. Ability to work under heavy pressure; will coordinate the workload of another secretary. Experience and good shorthand and typing skills are a must. 73-632-R (7/11).

Secretary III-IV (Center for Space Research) to the Head of the Laboratory and four staff members will type correspondence and reports (technical and non-technical); make travel arrangements: maintain project and personnel files; handle other general office duties. Secretarial school training and/ or experience desired. Technical typing skill helpful. 73-765-R (8/15).

Secretary IV for Institute Secretary for Corporations will organize and run the office. Very accurate typing needed for some letter-perfect copy; other typing duties require speed. Preliminary research on corporate prospects; gather backup information for visits; draft Work closely with other Institute offices in obtaining pertinent data; receive visitors. Flexible, adaptable, good telephone presence. 73-674-R (7/18).

Secretary III in Civil Engineering will handle general secretarial duties, requests from students and faculty for information or data from records which are compiled and maintained in the departmental Student Information Office. Rapid, accurate typing skills; familiarity with general office practices required, 73-826-R (8/29).

tion, handle travel arrangements, perform secretarial duties for one staff member dealing with major industrial corporations. Secretarial or business school background, 1-2 years experience preferred. Shorthand, good typing, spelling and ability to master office procedures essential. 73-683-R (7/25).

Secretary III to one staff member will take and transcribe dictation; type correspondence; handle travel arrangements; handle other general office duties. Ability to organize and work independently; good secretarial skills required. Previous working experience secretarial training preferred. and 73-580-R/73-581-R (6/27).

Secretary III in Physics Department Theoretical Center to work for threefour busy professors. Ability to handle some pressure, decide work priorities, type technical manuscripts and papers, cover phones as needed. Typing skills must be excellent; shorthand preferred, experience necessary 73-629-R (7/11).

Secretary III to several professors at the Sloan School of Management will handle all general office duties including

Technical Typist III in the Chemical Engineering Department will type large volumes of reports, manuscripts, proposals from rough drafts using magnetic tape typewriter. Excellent skills; ability to handle typing of quotations and chemical symbols; good skills in punctuation and paragraphing quired. Ability to work independently important. 73-841-R (8/15).

Technical Typist III in the Research Lab of Electronics will type manuscripts and reports from rough data. Responsible for punctuation and paragraphing, may involve some editing for preparation for publishing. Excellent skills, minimum of one year experience. 73-397-R (7/27).

Technical Typist III in the Office of Administrative Information Systems will type technical memoranda, data processing control documents and manuals. Maintain documentation library, including filing, organization and maintenance of programmer refer-ence library. Good typing skills,

carpentry. Read prints, do layouts on all types of cabinets, models, etc. A thorough knowledge of and ability to use various types of materials and wood working machinery required. 73-756-R (9/5).

Counter Person - at the Student Center will be responsible for the set up of the service area; serve from the Hot Food Counter. Food service experience helpful; ability to understand English required. Must be able to work weekends. 40 hour work week. M-F 10:30-7:30pm; weekend shift is 7am-4pm. 73-887-R (9/5).

Cook's Helper at MacGregor Hall will cook vegetables for lunch and dinner. Prepare salads and complete other assignments. Previous food service experience preferred. Must be able to read and understand English in order to follow recipes. 40 hour work week 9:45am-6:45pm. 73-86-R (9/5).

Jr. Animal Caretaker will feed and water animals; change litter material; sweep and mop floors; change animals to clean cages; keep animal facilities clean, neat and orderly. Candidate will be expected to take training course beyond high school. 73-822 (8/29).

Tech Talk, September 5, 1973, Page 11

Carnegie Fund to Support Women's Program at MIT

Three women members of the MIT faculty have been selected to receive Carnegie Foundation support as part of a \$400,000 program to encourage undergraduate women to enter professional fields rarely chosen by women.

They are Professors Mildred S. Dresselhaus of Arlington, Mary C. Potter of Cambridge and Shiela E. Widnall of Lexington.

They are among 10 women chosen so far at six Massachusetts universities to participate in the project entitled "Women and Career Options."

The grant will be administered by the University of Massachusetts at Boston. Others participating are Boston College, Brandeis University, Hampshire College and the University of Massachusetts at Amherst.

Fellowships to faculty members are intended to provide time for them to advise undergraduates and to review academic, administrative and extracurricular practices that affect women on their individual campuses.

The program also will support internships for undergraduate women to encourage them to enter careers that are considered nontraditional for women.

Sandra G. Yulke, a senior in chemistry from New York City, is

Ocean Law Seminar

A new graduate seminar, Law and Ocean Engineering (13.94) will be offered this fall, jointly sponsored by the MIT Department of Ocean Engineering and the Harvard Law School. Speakers include Professors Ira Dyer, Norman J. Padelford, J. Daniel Nyhart, Judith Kildow, Joseph B. Lassiter III, and Alaa E. Mansour of MIT and Richard Baxter and Louis Sohn of Harvard.

(Continued from page 1)

grow up around us. The challenge before us-

and the opportunity-is to move on to the

next stage in the development of mankind, to

make a safer, more decent world for every-

one, to protect the human spirit and give it

more scope and to protect our environment-

the natural one and that which man has

"Education and technology are vital to this

task," he added. "Many people think that the

world, and especially our country, has lost its

way. If that is so, part of the task is to help

find it again, for there will be no better time

midst of a moral crisis" and that many have

'lost confidence in the ability of the Ameri-

can system of government to function ef-

Dr. Wiesner said that the nation "is in the

to do this in the future.'

created '

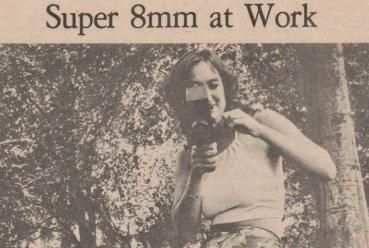
the first intern chosen for the program. She is conducting a survey of MIT alumnae who are professional engineers.

Professor Dresselhaus is associate head of the Department of Electrical Engineering for electrical science and engineering. She joined the Institute as a staff member at Lincoln Laboratory in 1960. She was appointed Abby Rockefeller Mauze Visiting Professor at the Institute in 1967, became professor of electrical engineering in 1968 and associate head of the department in 1972.

Professor Potter received the PhD in 1961 from Radcliffe in, social psychology. She was a research fellow at the Harvard Center for Cognitive Studies from 1960-67 when she became a lecturer in the MIT Department of Urban Studies and Planning. In 1970 she was appointed associate professor in the Departments of Psychology and Urban Studies and Planning.

Professor Widnall has been associated with MIT since she was an undergraduate, receiving the SB in 1961. She was a staff engineer and research assistant in aeronautics and astronautics while completing her doctorate. When she received the ScD in 1964 she became the first woman graduate to be appointed to the engineering faculty. She became associate professor in 1970. The Carnegie grant resulted

The Carnegie grant resulted from a proposal written by Dr. Mary Potter Rowe, special assistant to the MIT President and Chancellor for women and work. Dr. Rowe developed the proposal under a planning grant from the Carnegie Foundation while she was a research affiliate at the Radcliffe Institute last year.



THE CAMERA KNOWS—Carol Sones, film maker, "shoots" a student napping in the Great Court with her Super 8mm camera. Ms. Sones, of the South Carolina Educational Television Commission, is one of five film makers who are on campus to become acquainted with the MITdeveloped Super 8mm system. The compact system—as opposed to cumbersome 16mm equipment—is expected to make an impact on cinema verite techniques and educational programming for television.

Auditions Tuesday for MIT Symphony

The MIT Symphony Orchestra will hold auditions Tuesday, Sept. 11, at 7:30pm in the Kresge Auditorium.

Auditions will begin with a reading rehearsal under conductor David Epstein, professor of music, followed by individual auditions heard by Professor Epstein and principal players of the Sym-

estra phony.

Meantime, a concert, videotaped last spring, will be shown on the Public Broadcasting Service Tuesday, Sept. 18, 9-10pm (WGBH-TV Ch. 2 in Boston). The TV concert is a part of the program the orchestra played on a coast-tocoast tour last spring. The videotape was made at Kresge Auditorium by WGBH-TV.

Ashdown Ready Soon

Part of the \$2.8 million renovation of Ashdown House, graduate student residence at Mass. Avenue and Memorial Dr., is expected to be complete in October when the building's west wing will be reopened.

Renovation in the east wing will commence shortly after the west wing is reoccupied. Completion of the east wing is set for May, 1974.

"Ashdown is not getting a face lift," said Harry P. Portnoy, senior architect in the MIT Planning Office. "Restoration renovation plans for the building, made by Cambridge architects, Wallace, Floyd & Ellenzweig, do nothing to mar the style of the turn-of-the-century building."

The building, which will house approximately 400 students, is being fitted with modern plumbing, electrical, lighting and heating systems. New and enlarged kitchens, bathrooms and lounges also are being installed and will take up some floor space once apportioned for student rooms.

Twelve new apartment suites each including dining and kitchen facilities—will be constructed in the east wing. Space in the double and single rooms will remain the same in both wings after renewal. Student rooms will be refinished with fresh coats of paint, refinished floors and new windows. All new furnishings—desks, chairs, bookshelves, dressers and beds have been ordered for each room. Major contractor is H. H. Hawkins & Sons, Newton.

MIT Tennis Star Ready for Fall

MIT's premier tennis player, William D. Young of Austin, Tex., is ready for fall action after a summer spent winning a few tennis tournaments and climbing a few mountains.

Young, a senior majoring in aeronautical engineering, ended the last school year on a high note when he led an MIT sweep in the top division at the New England Intercollegiate tournament. It was held at Williams College in May.

Young won the men's singles title, then combined with Leroy E. Simpson Jr. of Simpsonville, S.C., MIT Class of 1975, to win the doubles.

In June, Young competed in the NCAA Small College tournament in East Stroudsburg, Pa. He was one of 16 surviving preliminary play, but was eliminated by the top-seeded player.

Back home for the summer in Austin, Young entered some tournaments and won two of them—the Waco and Garland open tournaments.

fectively and honestly." "The Vietnam War, the many environ-

men from good homes and good schools, mostly lawyers by training, whose personal code of behavior permitted them to participate in acts that were morally and even legally wrong."

MIT Is Place to 'Learn How to Learn' Freshmen Told

"They, obviously, had not well defined the sense of integrity, nor proper standard to judge their actions, or perhaps they didn't realize that with each act, big or small, they were molding their own characters. Now suddenly fate has held up a mirror for each to see what he has done and mostly they are ashamed of what they see."

He said an appropriate quote from Shakespeare would be from Hamlet:

This above all: to thine own self be true and it must follow as the night the day Thou canst not then be false to any man. Dr. Wiesner told the freshmen they would find a "great ferment" at MIT, "including plex environment in which we live. These are hard powers to achieve—in many ways much more difficult than acquiring analytical skills. Every student at the university should take the opportunity to form the broadest possible vision of the world. I encourage your exploration of those areas of study here at MIT that will add breadth to your professional interests, certainly in the humanities and social sciences, but in unrelated professional fields as well. I can't stress enough that it is the breadth of knowledge and your human qualities that will sustain you in the long climb, both as students and throughout your life.

Viewed in the aggregate, life is indeed a long, unending learning process. The experience of living requires a fiery zest, a sense of urgency and an atmosphere of forward anticipation. You can contribute to it and take advantage of it. Make the most of it."

mental and social problems we desperately need to overcome and the disclosures of Watergate are signs of deep trouble," he said. "Yet we should not lose sight of the fact that our country, with its constitutional commitment to individual freedom and human rights, has provided more opportunity and security for its citizens than any previous society has been able to."

"It still offers mankind's greatest hope," he said. "Yet it is abundantly clear, even if it wasn't in earlier times, that nature does not insure either our democratic freedoms or social progress."

"Each generation must earn its right to the benefits of a free society," he continued. "Each generation must strive to leave the world better than it found it. We have seen how fast a society can lose its momentum and idealism when everyone takes it for granted."

Dr. Wiesner said that the "greatest tragedy" of the Watergate affair was that it involved "a group of well-educated young

much experimentation with the educational process." He said this partly was a reflection of the belief "that most of you are more mature and better prepared than students who joined us a decade ago" and "should be given more flexibility in choosing what and how you study."

President Wiesner and Dr. Carola B. Eisenberg, dean for student affairs, struck similar notes in urging the freshmen to make their learning experience a life experience as well.

Dr. Wiesner said:

"MIT is a place for men and women who learn how to learn—who choose the most interesting problems and then develop the complex skills of analysis to solve them. But this is not all. Life is far from a set of problem definitions and analytical skills. For life,—if it is to be satisfying—demands from us an appreciation of many things, of creative skills, values, a taste for the best, a sense of beauty, and a sense of humor, an understanding and a perspective of the whole comDr. Eisenberg told the freshmen:

"You cheat yourself if you go through the Institute as a dreary grind. What's available to you here is a good deal more...Learning how to enjoy beauty—and to participate in the making of decisions which influence your own life—is no less important than learning academic skills...The stereotype of the MIT student as a gnurd with a slide rule is difficult to overcome, but you'll find it isn't true."

The late afternoon picnic was the official opening event of Residence/Orientation week. It will continue through Sunday, closing with the President's Reception for parents and freshmen, from 3:30 to 5:30pm, at the President's House—or at the Sala de Puerto Rico in the Student Center in case of rain.

New students at the Institute in addition to the approximately 780 men and 124 women in the Class of 1977 are 94 transfer students, coming to MIT primarily as sophomores from US and foreign universities. They include 78 men and 16 women. That was climbing mountains of a sort.

But he also found time for some actual mountain climbing in Colorado and the Canadian Rockies, an experience he described as "fantastic."

His immediate plans are to work out in preparation for the fall tennis schedule, which includes a few tournaments and some dual matches.

Book Published

Dr. Gary J. Powers, MIT assistant professor of chemical engineering, is co-author of a new book on the development of an industrial process, *Process Synthesis*, written with Dr. Dale F. Rudd, University of Wisconsin, and Jeffrey J. Siirola, Tennessee Eastman Co., and just published by Prentice-Hall, Inc.

Page 12, Tech Talk, September 5, 1973

The Charlotte Observer

4-12-77

P.O. BOX 2138 CHARLOTTE. N. C. 28233 PHONE 704/374-7070

Mary Rowe Economist Massachusetts Institute of Technology Cambridge, Mass. 02139

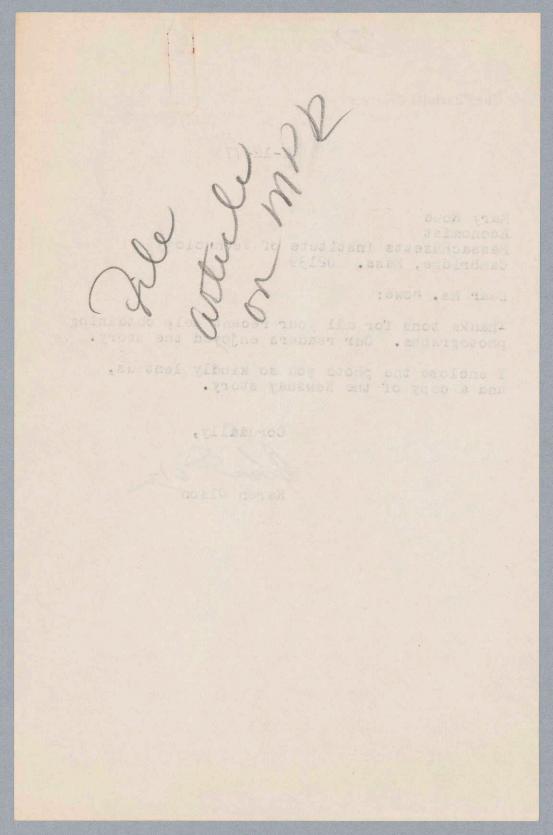
Dear Ms. Rowe:

Thanks tons for all your recent help obtaining photographs. Our readers enjoyed the story.

I enclose the photo you so kindly lent us, and a copy of the Newsday story.

Cordaally,

Karen Olson



Carolina Living

Red Cross course teaches laymen basic medical techniques so they can better cope with an invalid at home

Home Nursing Skills Help You Help Others



Observer Photo By GARY PARKER

Dorothea Compton With Daughter, Jennifer ... "I guess what I learned the most was how to make her more comfortable"

By ELIZABETH RHODES Observer Staff Write

What would you do if a relative, injured in a serious accident, were bedridden at home and you had to serve as nurse?

What would you do if an elderly family member became an invalid and you were faced with years of home nursing?

People are meeting these situations every day, and how they handle them can mean the difference between a happy family or strained relations.

'Home nursing is not only possible, it's something we all do every day," says Marilyn Self, R.N., direc-tor of nursing for the Greater Carolinas Chapter of the American Red Cross.

"Every housewife who creates meals is doing one element of home nursing," Mrs. Self says.

Ditto every person who's ever applied a bandage or given medication.

Yet, when a patient comes home from the hospital, relatives often panic. They think, "I'm going to get overwhelmed. What if (the patient) falls down and gets hurt?" Mrs. Self says.

That's where the Red Cross comes in. The organization offers a free home nursing course every few months, depending on the demand

In the past year, more than 100 people have enrolled, including a man who is caring for his seriously ill wife, and Dorothea Compton, who simply wanted to learn new techniques that would make caring for her daughter, Jennifer, 11, born with a spinal defect, easier on both of them.

"The reason I took the course was to prove to my-self that I could do things right," Mrs. Compton says. "But I think the course would be worthwhile for any mother or anyone with elderly parents."

Mrs. Compton, who took the course in March, lives at 3837 Foxridge Rd. Jennifer is in fifth grade at Billingsville Elementary.

In one way, Mrs. Compton is lucky. She had years of home nursing experience. But she learned to change a bed with the patient in it, give a bed bath, arrange pillows for maximum comfort and move the patient without straining her back.

Participants are also shown how to construct headrests, footrests and food trays out of cardboard boxes. They learn to raise a bed 6-8 inches by placing it on large tin cans that have been filled with sand.

"We teach them technical tricks so they can care for patients," observes Mrs. Self. "Some are the same techniques of basic body mechanics that nurses use in hospitals.

The medical techniques (taking the pulse or temperature, changing bandages) are simple and not meant to supplant regular medical care, Mrs. Self says. Nor is it a first aid course. (The Red Cross does offer first aid instruction.)

"This is an ongoing medical process under the su-pervision of a physician," the nurse explains.

While many have taken the course because they have a specific need, but, "It's the kind of thing any-one can use," she says, adding "We want people to be aware of the immense benefit there would be if one person in each family took the course." It's also good training to nave in case of a natural disaster.

One of the biggest benefits of home nursing training, Marilyn Self says, is financial."People are put in long-term (hospital, or more often, nursing home) care because they don't have anyone to care for them.

"And hospital care is so expensive (at Charlotte Memorial Hospital, a semiprivate room, not including medication or doctor's fees, is \$75 per day). If there were someone available who had the skills to take care of these patients, they'd be much better off," the

nurse believes. The course is taught at day and night sessions, de-pending on demand. "And we can modify the needs for a special group," Mrs. Self adds. Given at Red Cross headquarters, 2425 Park Rd., the course is in two-hour sessions twice a week for three weeks. The 12 hours of instruction are free; the only cost is \$1.56 for the Red Cross home nursing textbook

"This course has helped me a lot with Jennifer," Mrs. Compton says. "I guess what I learned the most was how to make her more comfortable.

"A lot of things I learned before I took this course, learned by trial and error. Thinking back, this course would have been very worthwhile when Jen-nifer was an infant."

Are You Interested?

For more information on specific dates and times of the next Red Cross home nursing course, call the Red Cross, 376-1661, weekdays, 9 a.m.-5 p.m. 9 Gu tl, 1 Buc (18) (36) (2)

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0 4 5

No Sex Appeal, **But Salt Cleans** Your Teeth

NEW YORK - We Americans just naturally love teeth. Nice, shining white ones with the luster of a pearl. And many of us will do just about anything to maintain

The New York Times



them.

With this kind of thinking, it's no wonder that Americans spend at least \$425 million a year on toothpaste, choosing from at least 22 kinds, not counting house brands or expensive imports.

Yet all that's really needed to keep our smiles resplendent is salt and baking soda in equal parts on a wet toothbrush. That is, if we're adults and aren't restricted to a no-sodium diet

The 50-50 combination causes an alkaline reaction that's all to the good, say authorities in preventive den-

tistry, and the mild abrasiveness can handle slight stains. The reason it's not for children is that they need fluorides to prevent their teeth from decaying.

Debate On Fluoride

At least one authority, Dr. Howard Ward, chairman of New York University's Dental Center's Department of Preventive Dentistry, thinks adults should go kosher with the salt since magnesium sulfate, which makes ordinary table salt flow freely, dehydrates the gums.

But another authority, Dr. Gordon Schrotenboer, secretary of the American Dental Association's Council on Dental Therapeutics, thinks there wouldn't be enough magnesium sulfate to matter.

What does matter is whether your toothpaste contains fluorides. And some authorities, here we go again, think fluorides don't matter for anyone over 35

Dr. Irwin Mandel, director of Columbia University's School of Dental and Oral Surgery's Preventive Dentistry Division, and Dr. David Fine, a professor in the same division, hold this opinion. Others believe in fluorides from the cradle to the grave.

But let's dispose of the foaming, the taste and the whitening or brightening.

The foaming agent, usually sodium lauryl sulfate, is there to give us a pleasant sensation and to remind us subliminally of soap, so we'll think it's cleaning our teeth. But it isn't.

The flavoring is supposed to make us enjoy the brushing experience and to give us a seductive breath. But this will last only about as long as it takes us to get out of the bathroom

As for "brighter than white" and all that sort of thing - there is no dentifrice, regardless of the promise implied in its name, that has any chemical agent to bleach teeth

All toothpastes have abrasives, but some are much more abrasive than others. The really rough ones will indeed take off stains but that's quite different from lightening a mouthful of teeth.

The American Dental Association has rated 22 toothpastes for their abrasivity, and the one that really scours is called Smokers.

A Surprise

The ADA's Council on Dental Therapeutics thinks it's not a good idea to use it steadily. The surprise on the list is Sensodyne, which claims it is for sensitive teeth. Yet it is exceeded only by Smokers and Iodent No. 2 in abrasivity. The least abrasive are T-Lak, Thermodent and Listerine, in that order.

For adults, the greatest concern is plaque. Dr. Schrotenboer believes toothpaste with fluorides not only may help with the dissolution of plaque, but also may even deal with bacteria. Dr. Ward of NYU thinks it's a help in reducing the sensitivity of adults' teeth around the gum line

However, for all of us there are fluorides and fluorides. The ones that the ADA likes best are stannous fluoride and sodium monofluorophosphate.

Stannous fluoride is in Crest and sodium monofluorophosphate (MFP) is in Colgate and Macleans. These are the only three toothpastes recommended by the ADA and by the Department of Preventive Dentistry of NYU's Dental Center.

But this doesn't mean you shouldn't use others. The ADA's Council considers only those which claim to have an inherent therapeutic or prophylactic effect through the inclusion of a biologically active ingredient.

Crest, Colgate and Macleans, as a matter of fact, are considered a bit abrasive for anyone using an electric toothbrush. Thermodent, Listerine or Pepsodent, experts suggest, would robably be better. New Sex Roles - Whose Hand Will Rule The World, Whose Will Rock The Cradle? ... from left, Merle Goldman, Mary Rowe and Don Polk

As Women's Roles Change, So Do Mens'

By SYLVIA CARTER

Newsday "Eat all of their cooking with signs of pleasure. "Wear cheerfully the dress he irons for

That advice comes from Mary Rowe,

an economist, and is offered to career women whose husbands share the household duties. Merle Goldman, associate professor of Chinese and Japanese history at Boston University, adds that the only solution for couples with two careers

may be: "poor cuisine and more dust." The old saw claims that "the hand that rocks the cradle rules the world." But Ms. Rowe, special assistant to the president and chancellor for women and work at the Massachusetts Institute of Technolo-(MIT), suggests "it is more to the point for the hands that rule the world also to rock the cradle.'

Such was the kind of advice dispensed at a recent Wellesley College-MIT conference entitled "Having a Career ...? Hav-ing a Family ...?" Most in the audience were women students from Wellesley. Only a few MIT students attended. "If you are lucky enough to know caring men," Rowe told that audience, "cherish . Support him if he decides to them

work in a day care center.' Rowe said the problem of "how to combine various jobs with having children has become a complex issue.' Changes in the labor force are occurring in a context of "rapidly changing relationships between men and women." Some of the changes:

• Full-time participation in the labor decreasing for men since 1900. By the is really in trouble," Lamb said. 1980s, only 70 per cent of men may work Clinical evidence supporting full-time (now 78 per cent do), and 70 per cent of women may work part- or fulltime

(Husbands and wives both might work part time in paid and unpaid endeavors, Rowe suggested, or even share jobs.)

 One out of every two women now in her teens will be a chief wage-earner They also have more need for psychologiat some point in her life.

• Nearly half of all American couples members in the labor force right now.

much as or more than their husbands.

• In a Gallup poll last year, men who reported they had egalitarian marriages were more likely to report that their marriages were happy. (But the wives weren't polled.)

• Only 25 per cent of the nation's homes use special child-care facilities more than 10 hours a week for children up to age 14.

That last fact, Rowe said, means that most mothers are basically responsible for their children... The question of who takes care of children is the funda-The question of mental issue" in the sharing of home responsibilities.

Panelists Don and Angela Polk provided an instant example. Angela Polk agreed chill are is the main issue, "but

At that point, she informed husband Don for the first time, in front of the audience, that he'd forgotten to pick up one of their two children at nursery school that day. It is just as hard for Ms. Polk, a community organizer who works at Tufts New England Medical Center, to leave her job to pick up the children as it is for Polk, a psychologist who works at Wellesley's counseling office. On this day he'd forgotten it was his turn. (The child was picked up by a friend.)

Polk said he was the one who had "changed" their two sons the most when they were infants, but he said he felt some other men might feel threatened by that sort of task. He had bought his wife

then you learn to live day to day and not a sewing machine, thinking she might worry about it." learned to sew.

"I see some very, very rigid attitudes in men," Polk said. "The biggest burden that young women face is sensitizing the men that they are looking at as potential husbands... Use as much attention to what you're buying as if you were buying a car. at least

Women "have been taught from childhood to take care of other people," Rowe said, but some men would like the chance to do that, too. Would senators be more compassionate if they knew more about the measles? Most politicians, she said, "never directly took care of another human being, or even a pet - or even a

plant.'

Research Demonstrates Once Again That A Young Boy Needs His Father

Whether daddy is around while his son grows from baby into toddler may have a lot to do with how he sees himself as a male, recent research suggests.

A boy's adoption of a masculine or feminine identity is highly influenced during his first two years of life, according to Michael Lamb, psychology professor at the University of Wisconsin

"If gender identification is not estabforce has been increasing for women and lished during the first two years, the child

Clinical evidence supporting this, Lamb reported, has been gathered by Dr. John Money of Johns Hopkin University and Prof. Henry Biller of the University of Rhode Island. They found that sons who do not develop gender identification within the crucial first two years tend to grow up less secure about their masculinity.

His own research leads Lamb to sug-(41 per cent and steadily rising) have both gest that "Fathers may play an important and often ignored role in the process of • Women earn 30 per cent of family income, and by the 1980s they may earn 40 per cent. And 20 per cert¹, will earn as 10 per cent. And 20 per cert¹, will earn as In a two-year study of infants, Lamb

- have potential for significant and special impact on the personality development of their children from early infancy on. The study of 26 children involved repeated observations at home and in laboratory settings. It was paid for by the Foundation for Child Development.

"Babies establish relationships with their mother and father which involve different kinds of experiences," he said. These experiences presumably have different effects on the babies' development.

Lamb believes the different ways mothers and fathers act with their babies and ensuring their sons are attentive to are related to the sex roles the parents that themselves adopt.

Mothers are more likely to engage in such traditional forms of play as "pat-a- Roughly 35 per cent of the girls studied cake" and "peek-a-boo." Fathers are preferred their mothers, another 35 per more likely to engage in physically stimulating and less predictable forms of play, showed no preference for either parent. according to Lamb.

found that fathers - as well as mothers to hold his baby just to play or because the baby wants to be held.

'In addition, fathers become far more concerned about and active with their sons than with their daughters after the first year, although they have been involved equally with both sons and daughters up to this point," Lamb said. "Meanwhile, sons become more attentive to their fathers.

"There is a trend from the child showing no preference to 90 per cent of the sons showing preference for their fathers by the end of the second year," he said. Fathers are modeling sex-type behaviors

Girls, however, are less consistent in their choice of "preferred" parent.

This is consistent, Lamb reported, with Similarly, when a mother holds her other evidence suggesting sex-typing in child, it likely is to be for caretaking purposes such as feeding, clothing and changing diapers. A father is more likely for girls than for boys.

NYC Is Paying Debts, But \$\$\$ Woes Go On

received a check from New York City Monday for \$823,252.01 - the

relatively tiny sum that threw the city into a bil-lion-dollar financial crisis.

Richenthal is the lawyer for Flushing National Bank. The bank won a decision from the state's highest court declaring unconsti-



tutional a morato- Blumenthal rium on payment of \$993 million in outstanding short-term city debts.

The moratorium was considered a cornerstone of the plan pieced to-gether late in 1975 to save the city from bankruptcy. Under that plan, anyone who owned short-term notes from New York City could either swap them for long-term bonds or wait until the city could pay them off.

But the state Court of Appeals said the moratorium wasn't constitution-l. The give had to not the debut on stitutional. The city had to pay the debts.

Associated Press Goldin, "but you'll have a lot of peo-NEW YORK — Arthur Richenthal ple writing in to dispute that."

Richenthal maintained, as he picked up his check from the city's paying agent, "New York City in-debtedness is now enforceable and no administration can change that.'

In a broader sense, Treasury Secretary Michael Blumenthal said, "I don't by any means think that the financial problems of New York are by any means over. I don't think they have been fundamentally solved.

"The problem is how to help them after 1978. We do think that they will somehow be able to get over the period between now and when the fiscal year starts.'

That's July 1, when the city must present a balanced budget to remain eligible for a federal loan of up to \$2.5 billion.

The loan expires at the end of the 1978 fiscal year.

The basic problems, Blumenthal said, are welfare costs and the movement of people and business - and therefore tax revenues - out of the

al. The city had to pay the debts. "Repayment is going hap-pily," said Comptroller Harrison will come up with a new welfare program that will bring relief to the nation's big cities.



HAPPENING AT IVEY'S

Come volley with tennis pro Arthur Ashe ... lvey's has made arrangements to have Fifth Street closed off between Church and North Tryon Streets

adjacent to Ivey's Fifth Street entrance so you can volley with Arthur Ashe from 11:30 a.m. to 12:30 p.m. Thursday. Bring your own tennis racket. Ivey's will have the net set up and will provide the tennis balls. Then from 12:30 to 2 p.m. Arthur Ashe will be in Ivey's men's department Uptown to autograph photographs and posters.

O

Anne Byrd's



French cooking class ... Register now for Anne Byrd's intermediate French cooking class to be held Monday through Thursday, April 18th through 21st at Ivey's SouthPark. The classes will be held from 10 a.m. to 12:30 p.m. Learn basic principles of French cooking using four complete menus. Cost of the course is 55.00. The class will be limited to 25 students. To register, call 365-3111, ext. 502.

04-12

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A

Spirit Square & Discovery Place: Yote For The Children's Bonds, April 19.



APR3

New England Newsclip

Wives told: cherish them

By SYLVIA CARTER

Los Angeles Times Service

"Eat all of their cooking with signs of pleasure."

"Wear cheerfully the dress he irons for you."

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ly income, and by the 1980s they may earn 40 per cent. And 20 per cent will earn as much as or more than their husbands

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Vitamin E remains a m

By DR. JEAN MAYER And

DR. JOHANNA DWYER

In the early 1920s, two scientists at the University of California, H. M. Evans and K. S. Bishop, discovered a new vitamin that was necessary in rats' diets if they were to produce healthy, living offspring. Because of this, the scientists named it "tocopherol," which is from the Greek words meaning "bringing forth in childbirth." In the vitamin alphabet, it became E.

On the basis of those studies people still mistakenly take vitamin E supplements to promote sexual performance or remedy fertility problems. On the basis of other experiments, other people take large doses of vitamin E in hopes of curing or preventing heart disease and a number of other disorders. But this is a very good example of the saving "because much like muscular dystrophy; bone, nerve and heart-muscle abnormalities; a breakdown of red blood cells; sterility in males and miscarriages in females.

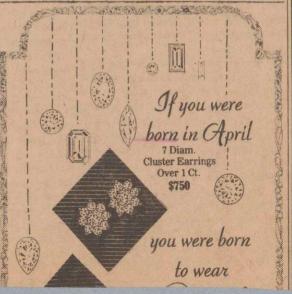
But the effectiveness of vitamin E supplements in treating these disorders in human beings has not been established. A number of studies over the last 35 years have shown that large doses of vitamin E appear to have no value in treating sexual or reproductive problems.

So the two major unanswered questions about the role of vitamin E in human nutrition remain. What beneficial effect, if any, might be derived from large doses of the vitamin? And just what is its function in the body?

The only instances in which vitamin E supplements are known to be helpful are in three very special situations. Premature infants with hemolytic anemia benefit from vitamin E supplements. Such supplements are also recommended in infant formulas because many babies, both premature and fullterm, are born with comparatively low stores of the vitamin. Breast milk has enough E to meet their needs, but cows' milk may not.

The third use is for patients with deficiencies caused by problems of fat absorption. This includes people with diseases like cirrhosis of the liver, cystic fibrosis, obstructive jaundice or persons who have undergone radical gastrointestinal surgery. A fourth, Finally, there is tects the lungs again tain air pollutants.

from studies showing that rats fed generous amounts of vitamin E are less susceptible to lung damage than are rats with a vitamin E deficiency. Eventually, it may be proved that vitamin E's chief function in the body is to protect other nutrients and body cells from premature degeneration. But in the meantime, vitamin E remains a substance of mystery.



9/28/73

Mary: I had two calls today about your mention of removing Mrs., Miss, Mr., etc. from forms. One girlx in Economics said that she picked up her cards and they were the old way. I told her you had only talked to Mr. Wells about that last week, and we hoped that they would really change for next term.

Another girl called to say that she thought the Foreign Student Office very negligent in often saying "Foreign students and their wives"... which Sandy Yulke has pointed out to me too.

Registration forms from Registrar's Office also ask for your "name as it appears on your birth certificate" ... a married girl would have a problem here!

Ann

MAINE SUNDAY TELEGRAM PORTLAND, MAINE S. 109,980 New SEP 9 1973 New Eugland Newscitp

Pioneer Women

The Massachusetts Institute of Technology in Cambridge, Mass., has had women students for 100 years. But that other great educational institution, the California Institute of Technology, first accepted female undergraduates in 1970.

This past June, the first women to receive B.S. degrees from Caltech were graduated, and all with honors, which means they had a B-plus or better average.

All four transferred to Caltech from other colleges, and all plan to continue to graduate school.

The women graduates are Stephanie Charles of Alexandria, Va.; Sharon Long of Denver; Deborah Chung and Flora Wu, both of Hong Kong.

When asked what it was like-

with men, because it was understood that only friendship was implied. But being married during a period when you are still developing, your life and your goals can get to be unworkable if the two people realize that they have different forks in the road which is what happened to us."

Caltech like MIT wants more women undergraduates. MIT, in fact, has prepared a 32-page booklet which is mailed out to 10,000 high school seniors. Sample comments from the booklet are: "At least they can't call women here dumb broads . . . if you're looking for equality, this is the place. Nobody is going to give you special treatment because you're a woman . . . as a graduate of MIT you can look forward to holding a top-paying position that requires your creativity, intelligence, and skills."

being a woman undergraduate at Caltech, Sharon Long, who went George Washington High to School in Denver, explained: "The girls are probably more academically insecure than the guys when they come here, and they have a little more on the line as to whether they'll succeed or fail. With me, it took the form of feeling I couldn't go to anybody and talk about anything that was bothering me. As freshmen, male students learn pretty quickly to ask for help from other students. I was afraid to, because I didn't want people saying, 'dumb girl.'

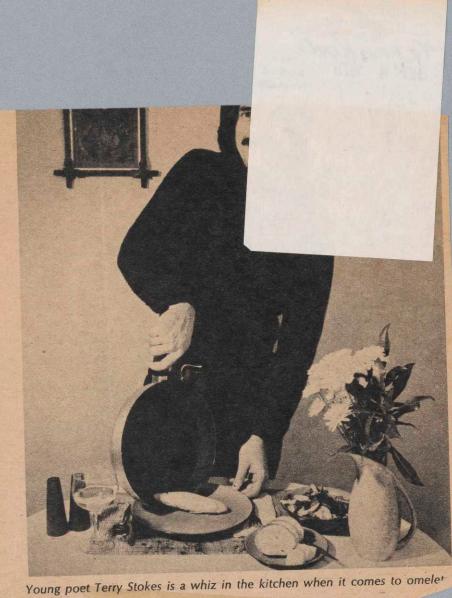
"The man-woman relationship at Caltech makes for some difficulties. The way I handled it was to stay essentially paired off with one man almost all the time, and I got married at the end of my sophomore year. This made it possible to have casual friendships

> Any girl who is accepted either at MIT or Caltech can be assured not only of a top academic education but a man-filled social one as well.

* Luring Secretaries

A worldwide shortage of secretaries now exists. The demand for Girls Friday is larger than the supply. As a result, potential employers are offering free apartments, cars and other fringe benefits. This is particularly true in London where the average secretary stays no longer than 25 months on one job before she moves to the next.

As a matter of fact the secretary shortage is so acute in London that one employer distributed 2000 lec^{fl}ets to prospective employees offer vacation and and rece





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I HE Polished ALABASTER Owls of Volterra

Simple in line, royal in his elegance is this wondrous sculptured owl from lady's famous Alabaster quarries of volterra, near Pisa. Hand-polished, sophisticated, magnificent, he regards vou with infinite (but quixotic) wisdom. About 4" high in heavily marbled, luscious pearl grey, with black and yellow deep set eyes, he weighs a nefty seventeen ounces (paperweights anyone?). Very worldly in price, too ... just \$7.95. To be wise, surprise someone you love with a unique gift and save in the bargain...so order two for only \$14.95. Please add 50¢ to partially cover the postage and handling of each of your orders, which will be cheerfully refunded if you are proven Alabaster Owls.

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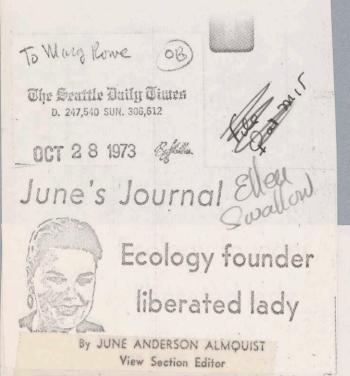
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ITEM: It was a woman who first-developed the science of ecology and that was back in the 1870s. She was Ellen Henrietta Swallow, who is considered the "founder" of ecology. She was the first woman to attend M. I. T., from which she graduated in 1873. A biography of her, published by the Follett Publishing Co., is due out November 26.

The first time a woman made a run for the presidency of the United States was in 1872. The candidate was Victoria Claflin Woodhull, who ran on the National Radical Reformers ticket.

COMMENT: Here are two more women who, 'way back when and without the help of an organized movement, liberated themselves. As more historical research on women is being done, more and more of these early-day liberated ladies are showing up. We modern-day ladies can learn a lesson from them — it's to show a little more intestinal fortitude on our own, individually.

* * *

ITEM: In attempting to write compromise rules for the selection of delegates to the 1976 Democratic national convention, the party has come up with an all-purpose unisex clause to avoid antagonizing feminists with words such as "chairman" in party guidelines.

According to a United Press International report, the Democrats adopted an amendment saying "words in these party standards indicating the masculine gender shall be deemed also to refer to the feminine gender."

COMMENT: I can tell the Democratic Party right now that that explanatory phrase isn't going to get them off the book with the activists in the feminine movement. They want neuter terms only. In fact they'd like to neutralize our whole vocabulary.

* * *

ITEM: A fellow by the name of Melvin J. Grayson, a New York marketing consultant, has just written a book called "Executive Sweetles" (Cordovan Press). In it he labels the American secretary as generally "inefficient."

Grayson, whom U. P. I. identifies as a former reporter, speech writer for Spiro Agnew and a vice president and promotion director for the late Look magazine, charges that "the average American secretary is a blot on her profession, a shametul reflection the quality of teaching in our schools and universities, a liability to her employer, and part of a collective threat to many of the nation's commercial establishments . .."

He described the "average" typing speed of secretaries at a "lava-flow pace" of 40 to 50 words a minute when the professional should be able to do 90 or 100. He says further that most of the 28 secretaries he's had over the past 20 some years have "at one time or another contrived to propel me straight up the office wall."

COMMENT: I should think that Grayson and his views should drive the American secretaries straight up the office wall. Shame on the man!

I'm mighty curious why Grayson has had 28 different secretaries in a lesser number of years. Could it be that his criticisms of his secretaries could apply to him as a

Lee Qad MUT



A centennial for the women of MIT



HELVI SIPILA . . . featured speaker

By Diane White Globe Staff

One hundred years ago Ellen Swallow became the first woman to graduate from the Massachusetts Institute of Technology.

In later years she told friends how pleased she had been when the president of MIT wrote to inform her she had been admitted and that she was welcome to attend at no cost.

She assumed he knew she was poor and he was being generous. She later found out that he waived the usual fees so that, in case anyone should object to her presence, he could say she wasn't really a student.

Happily, much has changed at MIT since Ellen Swallow was an undergraduate. The enrollment of women, although never sizeable, has tripled during the past 10 years and now numbers 816, or about 13 percent of the student body.

Yesterday some 200 alumnae gathered in Kresge Auditorium to celebrate the centennial of women students at the institute.

Helvi Sipila, assistant secretary-general for social and humanitarian matters at the United Nations, was the featured speaker. Mrs. Sipila, the first woman to be appointed to cabinet rank at the UN, told the group women in Eastern European and Nordic countries are more likely to enter professional fields and be politically active in decision making capacities than women in other countries. Mrs. Sipila, formerly a lawyer and judge in her native Finland, said this occurs because the laws of these countries are based on the complete equality of men and women, irrespective of marital status.

Mrs. Sipila said when women in developing nations are allowed access to education, they are more likely to choose to go into professional fields. "Where education is a privilege it cannot be wasted," she said.

Unfortunately, she said, when there is a lack of facilities for education in these developing nations, it is the female students who lose out. Men are given priority because they are regarded as future breadwinners, she said.

It is because of this, she said, that the majority of the world's 800 million illiterates are women. UN studies have shown, she said, that when women in developing nations are educated, they are more likely to use birth control. Hence, many of the problems of these nations which are caused by overpopulation could be alleviated by educating women, she said.

Earlier, the alumnae heard a panel discussion moderated by Margaret H. Compton, wife of former MIT president Karl T. Compton. The participants were five persons who have been involved in various ways in the evolution of the place of women students at MIT.

Dr. Emily L. Wicks, who recently left her post as professor and dean of women at MIT to become dean of the faculty at Mount Holyoke College, told the alumnae the percentage of women in each class who stay at MIT to graduate has increased substantially during the past 10 years. Only 36 percent of the women who entered with the class of 1960 stayed to graduate, she said, compared to 89 percent of the men in the same class. By 1964, the percentage of women graduating was roughly equal to the percentage of men, she said.

Dr. Wicks said the change came about after 1960, the year MIT made a firm commitment to encourage women to apply to the school. "Prior to 1960 women entered MIT at their own risk," said Dr. Wicks, who received a PhD in Chemistry





from the institute in 1951. "If they succeeded, fine. If they didn't, well, nobody expected them to succeed."

Dr. James R. Killian, class of 1926, former MIT president from 1948 to 1959 and honorary chairman of the corporation, and Dr. Julius A. Stratton, class of 1923, MIT president from 1959 to 1966, discussed developments during the last 25 years, a crucial time of change for women at MIT.

"During the late 40s and early 50s the place of women at MIT was the subject of much debate," Stratton said. "Some people resented MIT giving places to women, who, it was thought, would just get married and become mothers."

In 1953 the administration undertook a study of women and their place at MIT. "We were unable after two years of hard work to reach unanimous agreement on what to do," Stratton said. Some members of the commission, Stratton said, felt that MIT simply did not have the facilities to accommodate undergraduate women and recommended they accept female students only at the graduate level.

Two years later, however, President Killian issued a policy statement stating the institute's intention to admit undergraduate women, in fact to increase the female enrollment and to improve living facilities for women. Philanthropist Katherine D. McCormick, a member of the class of 1904, donated \$1.5 million to build a residence hall for women. The first wing of McCormick Hall was opened in 1963.

"The opening of McCormick Hall had a great effect on the morale of women at MIT," Dr. Killian told the alumnae. "Here for the first time was a facility that expressed the place of women at MIT, that made them feel welcome."

The two other panel members, Florence H. Luscomb, class of 1909, the feminist and civil rights activist, and Dr. Dorothy W. Weeks, who received a PhD in physics from MIT in 1930 and is a consultant at Harvard University, reminisced about the days when a woman was something of a curiosity on the MIT campus.

Mrs. Luscomb said she had done research into the life of Ellen Swallow Richards, whom she knew while an undergraduate. Mrs. Richards, she said, opened the coors for other women at the institute by setting a brilliant example. She was an instructor in chemistry at MIT for 40 years, until her death in 1911. She was a pioneer in the field of chemical nutrition and has been cited by nutrition. ists as the creator of the science of home economics. During the early afternoon the alumnae attended a reception and private showing of the Centennial Exhibition in McCormick Hall. The exhibition provided a visual glimpse into the accomplishments of MIT's women graduates. Among the diverse group of women whose work was represented were Lydia G. Weld, class of 1902, the first MIT woman graduate in naval architecture and marine engineering, a well-known ship designer; Elizabeth Coit, class of 1919, the landmarks preservation commissioner of New York City; Boston architect Marjorie Pierce, class of 1922; Marion Talbot, class of 1888, founder and president of the American Association of University Women; and Dickey Chapelle, the combat photographer and correspondent, a member of the class of 1940.



PANELISTS — Julius Stratton (left) and James Killian chat in Kresge Auditorium. (Bob Backoff photo)

The specter of Watergate

STATE LINE, Nev. - They come here to Lake Tahoe and they talk about revenue sharing, welfare problems, education and the energy crisis.

But what is really on the minds of the governors here is succession - succession to Richard Nixon.

Tied into all this is the Watergate conspiracy. At separate meetings of the Democratic and Republican governors earlier this spring statements were made by each. The Democrats, meeting in Huron, Ohio, on April 30, called for a "full and total disclosure surrounding the Watergate affair at the earliest possible time." Just 10



GOV. ROCKEFELLER

days later in New York, the Republican governors issued this statement: "We support the President. We believe the President."

Here, though, the Watergate conspiracy and the matter of succession to President Nixon will be difficult to separate.

The governors come here to talk about their state problems and they will, but what they really come together for is the national platform the National Conference of Governors offers them.

Since the birth of television in this country, the governors have had a tough

time making it on the national circuit. Adlai Stevenson was the last man to come out of a state capital to win the nomination for president.

It is very difficult to get a two-minute spot on Walter Cronkite's or John Chancellor's nightly newscast on the networks from such places as Springfield, Ill., Tallahassee, Fla., or Jefferson City, Mo., where the state capitals are.

So this is a chance for four or five days here at Lake Tahoe for the governors to show their wares, to go national. Some governors such as Gov. Francis Sargent of Massachusetts believe that much of the formal sessions is just window dressing and that there should be more time set aside for the business of politics. The agenda this year fits more that school of thought.

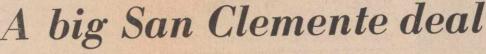
The old presidential horse will be here-Gov. Nelson Rockefeller of New York, who at 64 is the perfect answer to the old saw that money isn't everything but it helps, and Gov. Ronald Reagan of California at 62. Both appear to be running for the presidency again. Two years ago they both were written off for 1976 as too old. (Rockefeller if elected president in 1976 would be 72 at the end of the first term. Reagan would be 69).

There are other Republicans who will be talked about here for president, including Gov. Sargent, Gov. Linwood Holton of Virginia and Gov. Daniel Evans of Washington.

Each will have to take a stand, or at least say something about Watergate and support of the President. Holton outlined his position yesterday by saying he thinks the President should hold frequent press conferences where he could be "cross-examined" by the press. At the

same time he said he would vote against any resolution by the governors conference calling for full disclosure. Sargent would have difficulty voting against such a





Our President is constantly accused of being over-friendly to the wealthy. Nonsense. Take The Great San Clemente White House Deal.

ARTHUR HOPPE

two-and-a-half After years, Mr. Nixon's aides have finally figured out and made public how he bought the San Clemente White House with the help of New York tycoon Robert Abplanalp.

What they haven't yet made public is how Mr. Nixon sold Abplanalp on the deal.

Actually, Abplanalp answered one of those ads: "Be our guest to inspect Clemente Sunny San Acres. Free transportation on Air Force One. Free giass of champagne. Low down! E-Z Terms!"

He was met at the gate by Mr. Nixon, who was wearing dark glasses, a sharkskin suit and blue suede shoes.

"Welcome to San Clemente Sunny Acres, Mr. Applenap," said Mr. Nixon heartily. "And here is your glass of free champagne at no cost or obligation."

"Abplanalp," said Abplanalp. "But what I'm interested in is the low dowr payment and easy terms."

"I'm glad you asked that question, Mr. Aplanapla,' said Mr. Nixon. "Please in spect this beautiful 38 be had for absolutely nothing down."

"Gosh," said Abplanalp, "it must be worth more than half a million easy. You mean I can get it for no money down at all?"

"No, Mr. Planalpba," said Mr. Nixon. "I can."

"Haven't you got that backwards?" said Abpla-

to increase property values I'm spending more than \$100,000 in public funds for national security such as building an eightfoot wall around all 26 acres, erecting three gazebos and installing electric heating in the house."

"That's national security?"

"Isn't everything

crats in the 1972 campaign call girls were recruited to romance Democratic lead ers and, between kisses, to wheedle political secret from them at their Miam convention.

investigator Senate learned about this unique undercover operation fron no less than ex-Attorney General John Mitchell. A summary of his confidential confession describes : meeting with Watergate ringleader G. Gordon Liddy at the Justice Department on Jan. 27, 1972.

"Liddy arrived," state the summary, "with massive charts of an intelligence gathering program which was a huge structural operation with people in different places with different code names and among othe included,

DAVID B. WILSO

Why imp

room mansion which can

ANALIERE

resolution.

If President Nixon is in trouble, as many of the governors think, these same men who are being talked about for 1976 will want to put some space between themselves and the President on Watergate. As Mr. Dooley would say, politics "ain't beanbags."

Gov. Holton, who is chairman of the Republican Governors Assn., called Water- GOV. REAGAN gate "a sordid affair."

Gov. Marvin Mandel of Maryland, chairman of the national conference, said yesterday that Watergate is "hanging over" the entire conference and that it is not a partisan issue. "It has affected all of us-the entire country. It has eroded the confidence of the people in public office-holders." Mandel agreed with Holton that the President should go before a press conference to be "cross-examined."

Despite a certain amo of whether or not Preside impeached, there seems so for his ouster from the Wh ly to be.

What could interfere forecast would be a gene President has lied to the sembled, omitted, distorted or misinterpreted. These ar ple accept them with vary lie is the unforgiveable cr like to give the President th

What will

To Many Rovel GLOBE (E) BOSTON, MASS. D. 195.032 New JUN 1 9 1973 England Newsclip

MEDLEY By BILL FRIPP

Any similarities are coincidental

If you're sure that that's you or someone you know in "Starting Over," sipping ouzo with your lover at the Ommonia or externalizing with the Boylston street Tgroup or trying to pick someone up at the Mt. Vernon street Sunday brunch, don't worry. Dan Wakefield, author of the new Boston-based novel about the mating habits and hangups of middle-class locals, insists that the characters are fictional.

"I can't imagine anyone taking offense," said the stocky Wakefield, whose first novel, "Going All the Way," sparked some rumblings back in its Indianapolis setting. "Some readers back there who I didn't even know accused me of slandering them. One wrote me that he was going to shoot me.

"Actually, I feel that the book is a compliment to Boston. You can't be neutral about a city when you write about it, and I'm positive about Boston."

Wakefield, 42, a tousled-haired Hoosier with the face of a Puckish sybarite, recently settled in Boston after writing stops across the nation. He lives in a lavish Revere street townhouse he purchased with royalties from "Going All the Way," a novel about maturing in the '50s. That book has sold 700,000 in paperbacks and its movie rights are being optioned.

Wakefield started out as a muckraking journalist, writing for Harper's and The Nation, and according to his publisher, Seymour Lawrence of Boston, earned the reputation of a young Lincoln Steffens, particularly on the strength of his

think he'll ever return to journalism. "Novels give me a greater emotional satisfaction."

He describes "Starting Over" as a book about "WASP middle class Americans floundering around." It took him about a year to finish it. "I start slowly, thinking and taking notes, and writing maybe half a page a day. When I get into it. I write about 12 hours a day, every day a week including weekends, working at The Atlantic offices so I won't be bothered. If I feel I've had a good day, I'll have a drink at Trader Vic's."

Wakefield admits a peculiar obsession: he can't stand the Thanksgiving through New Year's holidays. "I just have to get away then. I'm looking for a warm weather place where I can escape to for those six weeks."

Guests at John Kenneth Galbraith's Harvard commencement day party included Hollis Chenery, co-owner of Secretariat and a former Harvard faculty member . . The New York Times's Anthony Lewis is renting Charles B. Rockwell's Cambridge home for a year with plans to write a book while there . . . When Bette Arnold paid in court to recover her Rolls, which had been impounded by police for over a year's collection of parking tickets outside her restaurant, she paid the \$2075 in crisp, \$20 bills.

Undergraduates at MIT are being lured to an oceanography seminar in Cas-

reporting from the South. But he doesn't tine, Me., with promises of boating and scuba diving. And Boston University, in an effort to boost sagging summer school enrollments, printed its summer catalogue in a flashy "counterculture" format.

> If you smoke cigarettes you are probably an extrovert, liberal, open to experiences, spontaneous, anxious and prone to experience distress on occasion, while if vou don't vou're probably more of an introvert, rather well adjusted, a planner and not too anxious most of the time, reports University of Arizona psychologist Dr. Richard W. Coan following his sixhour test battery on 361 subjects.

> Publicity people who are intimidated by that grizzled city editor may be interested in the 1973 edition of the Publicity Handbook published by the Boston chapter of Women in Communications, Inc., which lists daily and weekly newspapers, radio and TV stations in eastern Massachusetts and advice for writing a news release. Available for \$3.50 from Women in Communications, 7A Cross st., Welleslev, Mass.

A rose is a rose is a rose and is, of course, the mainstay of the Massachusetts Horticultural Society's 1973 Rose Show, to be held next Saturday and Sunday at the Natick Mall, with admission free. ... Thursday's Boston Harbor Concert Cruise, which leaves Long Wharf at 5:30 and 6:30 p.m., will feature the Clean Wind Group playing serenades of Mozart and Haydn. ... The Ellen Swallow Richards Professorship for distinguished



AUTHOR DAN WAKEFIELD

women has been established at MIT, marking the 100th anniversary of the graduation of Mrs. Richards, MIT's first woman student.

Art and Music for Preschoolers and International Folk Arts are just two of the many offerings planned for art students of all ages at the Brookline Arts Center's July workshops, now open for registration. ... The Wall Street Journal reports that women hired as tire builders in a Firestone Tire and Rubber Company plant had to be switched because they tried to "build too good a tire and couldn't keep up with their quotas."

Boston Evening Globe

Tuesday.

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Rudolph Bing: Meticulous in all

By Marian Christy Globe Staff

NEW YORK — As the ever-changing world revolves, so does life.

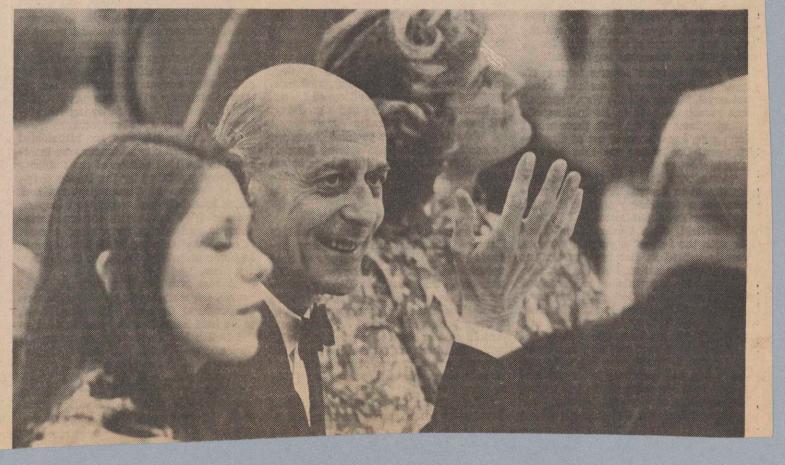
Sir Rudolph Bing, 71-year-old brisk, bald retired general manager of The Metropolitan Opera, recently bolted into Lincoln Center in his usual tuxedo and bowler hat to hear a musical tribute to an old colleague, 85-year-old Sol Hurok.

Bing ran right into an illustrious acquaintance from his past, Aristotle Onassis, the man who once rejected his star, Maria Callas, to marry Jackie whom Bing hadn't seen since President Kennedy's assassination.

Humor-prone Bing, more than mildly amused at the brief kaleidoscopic confrontation with Onassis who had Valentino-attired Jackie clinging to his arm, observed:

"I was very surprised that Mr. Onassis recognized me after all these years. The last time we saw Paris together it was at Maxim's for lunch. Maria made it a threesome. So much has happened since our teste-a-tete ten years ago. Actually Mr. Onassis and I exchanged hellos then I fled! I had to go home and put my dog out."

Maturity has mellowed a quality that Bing used to be famous for — namely



BRIDGEPORT, CONN. D. 81,633

To Mary Rove, FYI

MAY 23 1973

Nem England Newscli

22 to Vie Tomorrow for Jenny Lind Title

entered the competition to be-come Jenny Lind for 1973, part of the Silver Jubilee Barnum Fes-of the Redeemer choir in New Kathleen Marie Fiore,

The real Jenny Lind was P.T. Barnum's "Swedish nightingale," a vocal discovery he promoted to the toast of two continents. The annual festival commemorating showman Barnum, a former Bridgeport mayor, features singing by both a Jenny Lind chosen here and one chosen in Sweden who emulate the original operatic singer.

Of the 22 girls competing from Connecticut schools or Connecticut families, a few have untrained natural voices, and a few have studied and won operatic kudos as high as finalists in the Metro-politan Opera auditions.

Some Sing in Choirs

In between, there are girls who sing in church choirs, a graduate city planner, public-schools mu-sic teacher, a grocery cashier, a babysitter, hairstylist, settlementhouse arts leader and several young married housewives.

Six former finalists in the Jenny Lind auditions of other years have returned to try again for the title, and for a \$1,000 scholarship and singing tour of Sweden that go to the winner. A \$500 scholar-ship is awarded the alternate Jenny Lind.

Warnaco, Inc., an apparel man-facturer, the People's Savings ufacturer, the People's Savings bank of Bridgeport and the Barnum Festival society sponsor the

scholarships and concert tour. studie The 1972 Jenny Lind, Krystyn Hanson of Hartford, will attend level.

the Thursday auditions. Jenny Lind competitors who did well other years and are returning include Jaye Webster Green of Philadelphia, Lydia Anne Kowalski of Fairfield, Mrs. Evelyn Gerry Fuchs of South Norwalk, Stephanie Mary Conte of New Haven and Carol Ann Hudak of West Hartford.

Finalist in 1967

Miss Kowalski is one of the arliest former finalists, from 967. She is the graduate city lanner whose master's was earliest 1967. planner earned on a HUD fellowship at Massachusetts Institute of Technology. She earned a music and drama degree earlier at Indiana university and was a special student at Boston Conservatory of Music. She is soloist at St. Thom-as Aquinas church, in Fairfield, where she lives with her par-ents, Mr. and Mrs. Leon Paul Kowalski at 510 Sasco Hill road, Eairfield Fairfield.

three-time former finalist during high school is Mrs. Eve-lyn Gerry Fuchs of Norwalk, whose parents, Mr. and Mrs. Glenn Gerry, live in Westport. A newlywed, Mrs. Fuchs has a hume life between working as A newlywed, Mrs. Fuchs has a busy life between working as cashier at Grand Union in West-port and singing with groups ranging from the Westport Uni-tarian Church, Madrigal Singers and Trinity Chorale. For two years she was leading soprano with the University of Bridgeport opera workshop. opera workshop. Miss Conte, a graduate of Hartt College of Music who received the professional certificate in opera in 1972, was also a Gianni DiAngelo singing contest finalist and first runner-up in the Miss New Haven pageant that year, and a Jenny Lind finalist in 1970. She is receptionist at WAVZ radio to support her musical and dramatic studies, and she has appeared in a dozen operas, some with the New Ha-ven Opera Company of which she is a member. She and hen parents, Mr. and Mrs. Alexander Conte, live at 78 Sheffield ave-nue, New Haven.

of the Silver Jubilee Barnum Fes-tival. Contestants will audition all af-ternoon Thursday before a final hard Arts Center of the Univer-sity of Bridgeport, according to Mrs. Dorothy Thurmond, con-test chairman. The call set and Mrs. Armand Simone of Music Cubs. She is the daughter of Music C Mr. and Mrs. Armand Simone of Astoria, N.Y.

Mrs. Lucia Ann Monahan, of 600 Riverside drive, Fairfield, is a Barrington, R.I., college graduate with hopes of con-tinuing toward the master's in voice at Westminster Choir colvoice at westminster Choir col-lege. She sang in all-Connecticut and all-Eastern high school choirs and earned a scholarship to sing with the New York Choral society, in which she sang a small solo at Carnegie Hall. She teaches privately in Eastrieid and coaches the Good Fairfield and coaches the Good News Singers at Black Rock Congregational church. Her parents are Mr. and Mrs. Wilbur Ritzman Flug.

Another Yale Student

June Anderson, daughter of Mrs. Zelma Anderson, daugner of Mrs. Zelma Anderson of Wal-lingford, is the other Yale music student who won the Gianna D'Angelo contest in 1968 and was the youngest finalist ever to be chosen in the National Metro-colitan Opera auditions She was politan Opera auditions. She was named outstanding high-school musician in Connecticut in 1970 by Hartford Symphony and Aetna Life and Casualty, and among other scholarships and fellowships, received one to the Fontainebleau au Ecole des Beaux-Arts, in France during 1972.

Three of the contestants have Three of the contestants have studied singing only with private teachers, below the college of 37 Myanos road, New Canaan,

Mary Ann Katherine Nelson, daughter of Mr. and Mrs. Law-rence Nelson of 400 Hill Brook lane, Fairfield, has eight years of pione three ware been the of piano, three years each of voice and modern dance behind her, and also studies pottery with a view to apprenticeship to a professional potter. She also does volunteer work teaching ceramics for mentally retarded children.

Bullard-Havens Grad

Rosemarie Nancy Ann Mar-tucci, daughter of Mr. and Mrs. Alfred Martucci of 293 Old Town road, Bridgeport, is a Bullard Havens graduate cosmetologist who has won awards in hair-styling and bowling and has studied dance since she was two. In spite of the lack of formal voice training, she has been an active performer with Polka Dot Playhouse, at the Klein Memorial Fathers' club shows the past ten years, and at the recent Republican dance at the Knights of Columbus.

Louise Guion, daughter of Mr. Louise Guion, daughter of Mr. and Mrs. H. G. Guion of Lit-chfield, is doing the Barnum contest as part of her senior high school independent study. She has had a year each of theory, piano and dance, and two years of voice training, as well as being in a church choir, school glee club and a proschool glee club and a pro-duction of Noyes Hudde in Waterbury. She works as a babysitter as she looks forward to continuing studies at Manhattanville college. Other competitors are pursu-ing more formal preparation for a music career. Susan Catherine a music career. Susan Catherine Drude, daughter of Mr. and Mrs. Robert E. Drude, of Gran-by, spent four and a half years at studying music at Indiana university and is now being taught by a Hartford Conservatory faculty member.

Some 22 girls who fancy hav-ing voices like nightingales have scholarship at Yale Music MacWalters, of the Metropolitan Randolph-Macon Woman's

Barbara Sherburne, of 213 Lenox avenue, Bridgeport, earn-ed a BA in voice from West Virginia Wesleyan college, winning scholarships in music and honors in conducting. She also spent a summer at a vocal in-stitute in Freiburg, Germany and expects to pursue the master's degree in either conducting or voice, or both. At present, she is a secretary at Burndy Corp. in Norwalk. Her mother, Mrs. Bernice H.

avenue, Norwalk. Won Fellowship Sheila R. Wall, of New Haven, is the daughter of Mr. and Mrs. James E. Wall, of Garland, Tex-as. She has won the Alpha Lambda Delta Kathryn Sisson Fellowship for 1973 for graduate studies at Yale. Opera is her goal, and she has been rec-ognized by inclusion in Who's Who in American Colleges and Universities for 1972. She sings in Trinity choir Chamber Singin Trinity choir Chamber Singers.

music from lege, receiving the Kiwanis award for vocal music, mem-bership in the all-state choirs,

bachelor's degree from Southern Connecticut State college and spent three years as a theater major. She has been a music teacher in the New Haven Public schools but hopes to enter graduate school in voice. She has been asked to join the York as an apprentice, to debut in the role of Michele in Bizet's Barbara Sherburne, of the state of Davids She was a mem-ber of Davids (1990) voyards, Massachusetts In-stitute of Technology's opera workshop, and was a soloist in the BU chorus. She was a mem-ber of Dean's Hosts and honor society. She hones for a career society. She hopes for a career in opera.

Four girls are from the University of Bridgeport.

also They are: Susan Mullis of l in- Mr. and Mrs. Clyde Mullis of nany Glen Roch, N. J., a 1973 Gradu-the ate in arts and sciences; Mimi con- Hess, whose parents are Mrs. At Gisela Hess of Highland Falls, y at N. Y. and Albert Hess of Brock-Her port N. Y. Detkin det for mother, Mrs. Bernice H. Sherburne, lives at 41 Wolfpit avenue, Norwalk. and Gena Rees, daughter of Mr.

Runner-Up In 1970

Miss Hudak, Bridgeport Jenny Lind runner-up in 1970, is a graduate of St. Joseph college in West Hartford where she now 1970, lives. She is mezzo-soprano soloist at Immanuel Congregational Church in Hartford and is con-tinuing voice studies at Hartt College of Music. She is the daughter of Mr. and Mrs. Rob-ert Hudak of 296 Daniels Farm road, Trumbull.

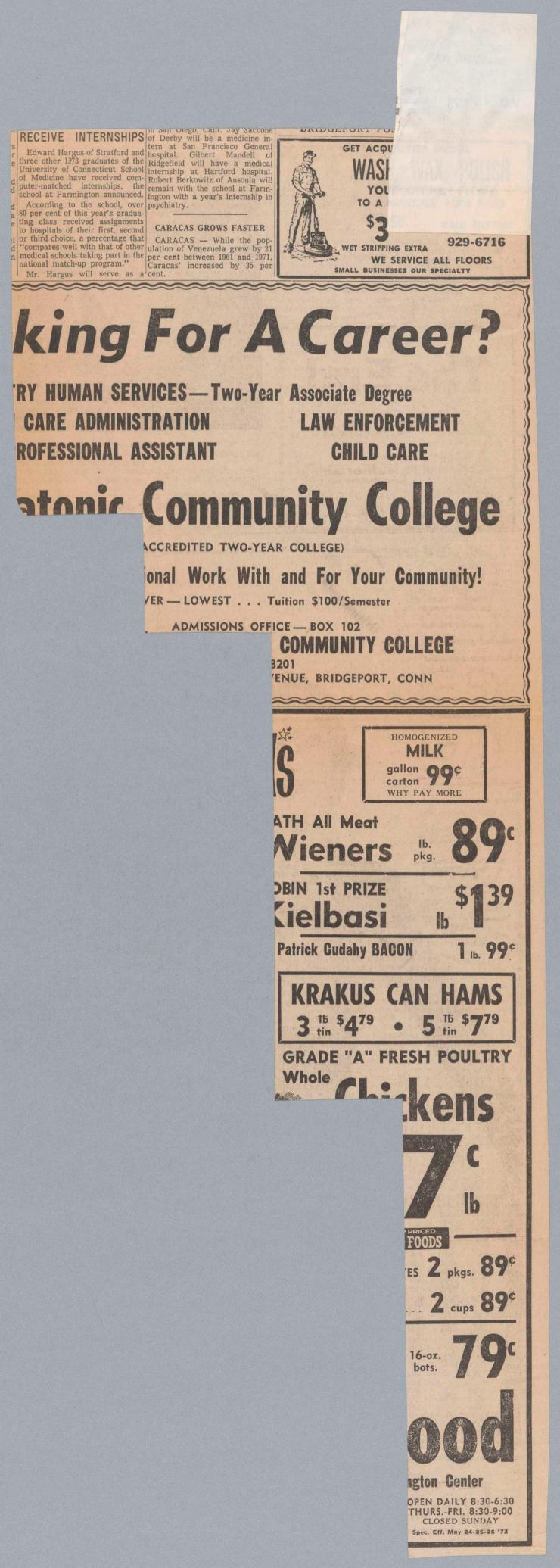
Miss Green; one of two out-of-state competitors this year by virtue of her winning a 1972 Jenny Lind finals position, is a music graduate of West Chester State college, in suburban Phila-delphia near where the young singer lives at 1518 North 26th street with her mother, Mrs. Gladys Green. She was in Concert, Bel Canto and Chamber choirs at West Chester and specialized in Renaissance music.

In addition to Mrs. Fuchs, other young women are three married competitors for the singing title.

Contestant from Boston

Mrs. Joan Gombos Berninger of Boston, another Jenny Lind 1972 finalist, was the sec-ond-place choice in the 1972 New England Regional auditions of the Metropolitan Opera and is a June candidate for graduation from New England Confrom New England Con-servatory in Boston, where she has been a member of their opera theater, for which Boston university has admitted her as a special student next year. Her parents, Mr. and Mrs. John Gombos, live at 32 East Carver street, Huntington, L.I.

Mrs. Emelia Simone of New



SUNDAY HERALD ADVERTISER BOSTON, MASS, S. 521,285 TO Mary Rowe JUN 3 1973 England Newschip

Zumwalt Sees Poor Oil Scene

Admiral Elmo A. Zumwalt, chief of naval operations, declared yesterday at MIT that Russia believes that America's "Jugular vein" is her reliance on oil from the Middle East.

Zumwalt predicted that the Soviets will not engage the United States in costly land wars but instead will "take a slice at a time" by attempting to choke off the Mideast oil supply.

Within seven years, he said, the U.S. will be relying on half of its oil from that area of the world.

"The Middle East crisis will be an attempt by the Soviets to make importation of oil increasingly expensive in an effort to further harm the U.S. economy," he said.

In his speech, "Global Perspectives for the Coming Decade," Zumwalt linked the future survival of nations to their efforts in coping with the energy crisis.

He predicted that within three decades the world's energy resources will begin to be depleted despite the fact that 30 billion barrels of oil could be tapped off the northern Coast of Alaska.

"Extensive use of the seas will mean the eventual survival of mankind," Zumwalt said, predicting that large numbers of men will live for long periods underwater and "you will see a change from the hunting of seafood to the farming of seafood in the deep ocean."

Zumwalt emphasized the need for "meaningful strategic arms limitations" and disclosed that during the Cuban missile crisis he told President Kennedy that 300 million people would be killed if the missiles were launched.

The Russian Navy will exceed America's, he said, and by next year we will have reduced our fleet from 950 ships to 522. He said that he personally is committed to building more but smaller ships.

Zumwalt was the opening speaker at a convocation celebrating the 100th anniversary of the graduation of the first woman from MIT.

She was Ellen H. (Swallow) Richards, Class of 1871, who joined the faculty after graduation as chemistry professor and then married the chairman of the chemistry department.

MIT President Jerome Weisher announced that a chemistry department chair is being created in her memory

Zumwalt, considered a champion o women's rights in the Navy, predicter that women will fly Navy planes and work side by side with men aboard ship

tages.

According to the memo, special review established in each region to review and proce children are legally free for adoption.

The department's first priority will be to under age 12 who are free for adoption. Sec to locate adoptable youngsters aged 12 to 18.

Regional offices are expected to report all uncovered cases, document the number of cl to their parents or referred to the adoption unit and the number needing medical or psychiatric treatment.

Ted Hits Lag in U.S. Aid to Viet Children

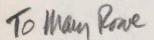
WASHINGTON (AP)—Sen. Edward M. Kennedy (D-Mass.), said yesterday that little progress had been made in fulfilling American commitments to help the orphans and children of Vietnam.

Kennedy, chairman of the Senate subcommittee on refugees, made public a letter to State Sec. William P. Rogers urging support for inter-country adoption agencies.

He accused U.S. Embassy officials in Saigon of delaying decisions on Vietnamese appeals for child welfare help and ignoring offers of international humanitarian assistance.

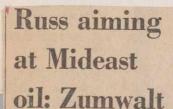
"Our country's heavy backlog of responsibilities in helping the many thousands of Vietnamese children who are fathered by Americans, and the hundreds of thousands more who are maimed or orphaned or abandoned or simply disadvantaged from the war, grows with each passing day," Kennedy said in a statement. 3 fa cool
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CHICAGO DAILY NEWS D. 434,489 SUN. 418,629

JUN 4 1973 Buffalles



CAMBRIDGE, Mass. (UPI) — The chief of U.S. naval operations, Adm. Elmo A. Zumwalt, says the Soviet Union is increasing its influence in the Middle East in hopes of interrupting the flow of Arab oil to the United States.

"This nation faces a very severe problem with regard to whether or not it's going to be possible to continue to import the oil from the Middle East, upon which we are beginning to be very dependent," Zumwalt said in a speech at the Massachusetts Institute of Technology.

"Within the last two or three years, this nation has shifted from a have to a have-not nation with regard to its energy supplies, and we've gone from 10 to 20 to 30 per cent of our oil coming in from overseas," he said. only 32" high. Inste utility room, baser bathroom. Washer cool down feature f press fabrics and temperature selectic special no iron care press fabrics and ea screen. Stack Rac Optional Extra.

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MAY 31 1973

To May Rowe

New England Newschip

M.I.T. Convocation Has Local Interest

When the Massachusetts Institute of Technology celebrates 100 years of women graduates at a centennial convocation for this purpose on June 2nd and 3rd at the famous university, Professor Maryalice Moore of 271 York St. will be attending as one of the women who have received a degree from the university since it graduated its first woman student, Ellen H. Swallow, in 1873. Miss Swallow, who later became Mrs. Richards, achieved world recognition as a teacher and authority on food and sanitary chemistry and was the founder of the home economics profession

the founder of the home economics profession. Mrs. Moore, who teaches chemistry at Stonehill College, has a particular link with Ellen Swallow Richards, since she was an Ellen Richards Fellow at M.I.T. from 1929 -1942, receiving her Ph.D. in 1943 for her thesis on Sugar Chemistry. The Ellen Richards Fellowship had been established by a group of Mrs. Richards' friends when she died in 1911 and has been used to help carry out research projects in Food and Sanitary Chemistry. Now over 700 women are registered for courses at M.I.T. and women professors are no

Now over 700 women are registered for courses at M.I.T. and women professors are no longer a novelty. The two-day convocation, sponsored by the Association of M.I.T. Alumnae, will not have to prove the need to educate women; it will concentrate on matters of interest to both men and women and probe issues of current and future international and national concern, as well as questions relating to a person's career selection, professional advancement, education, and personal development. Noted speakers and varied workshops will highlight the activities, and of special interest will be the Centennial Exhibition, which vill be on view at several ocations throughout the institute. This exhibition will provide a fascinating picture of the career accomplishments of M.I.T. alumnae, as well as glimpses of their student days. An overall view of the changes in Institute life as related to the coeds over the past 100 years will be part of the exhibit and there will be a panorama of the professional activities of living alumnee.



At International Week at the Hemenwa Lyons, Stephen Costello; Grade II–Ste –Sandra Pitts, Elizabeth Spence; Grade

Last week was celebrated as International Week by Grades 1 through 5 at the Hemenway School while the sixth grade class of the school was absent in order to go on an ecological study live-in week at the Cape Cod National Seashore Park. The international project grew from last year's successful in-depth study of Japan by the two third grades, who culminated their research by putting on an authentic Japanese tea ceremony.

This year several different countries were studied. The two first grades studied the United States, the two second grades learned about Mexico, the two third grades about England, the two fourth grades about Scotland, and the two fifth grades about Puerto Rico. Also during the week there was a special dessert served each day at the hot lunch program in honor of one of the countries studied. Monday honored American apply pie; Tuesday, a Mexican tortilla cookie; Wednesday, English layer cake with jam; Thursday, a Scottish Lorna Doone cookie; and Friday, pineapple to remind the children of Puerto Rico.

A visit to the gaily decorated ooms of the school proved a lelightful experience. Mrs. Vatalie Casco's first graders had

TO Mary Rowel

POST BRIDGEPORT, CONN. D. 81,633

JUN 4 1973

New England Newschip

ZUMWALT CAUTIONS ON MIDEAST OIL

CAMBRIDGE, Mass. (UPI) — Chief of the U.S. Naval Operations, Adm. Elmo A. Zumwalt, says the Soviet Union is bolstering its influence in the middle east in hopes of interrupting the flow of Arab oil to the United States.

"This nation faces a very severe problem with regard to whether or not it's going to be possible to continue to import the oil from the middle east, upon which we are beginning to be very dependent, Zumwalt said in a speech at the Massachusetts Institute of Technology Saturday.

"Within the last two or three years, this nation has shifted from a have to a have-not nation with regard to its energy supplies, and we've gone from 10 to 20 to 30 per cent of our oil coming in from overseas," he said.

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