

Photo © Steve Finberg 1984

*Monarch*, a human-powered aircraft built by MIT students, glides over Hanscom Field on its record-setting flight Friday.

## MIT plane sets flight record

By Diana ben-Aaron

A group in the Department of Aeronautical and Astronautical Engineering set a record and may have captured a \$30,000 prize when its human-powered aircraft *Monarch* flew a triangular course in less than three minutes Friday morning.

Frank Scarabino, an MIT senior, successfully flew *Monarch* 1500 meters in two minutes, 49 seconds. Scarabino had piloted and powered the aircraft on 65 previous test flights.

He provided 75 percent of *Monarch's* in-flight power directly by pedalling a cycle attached by a shaft to the propeller, and supplied the remaining power by pedalling before he left the ground to charge nickel-cadmium batteries.

*Monarch* is a propeller-driven monoplane with a wingspan of 61 feet, made of aluminum tubing, styrofoam, and graphite composite and covered with Mylar, according to Sean Tavares '84, a student who worked on the project.

The pilot can turn, bank, and roll the plane by working the rudder and ailerons, Tavares said. Additionally, the pilot can alter the pitch of the propeller to maximize efficiency, he noted.

The group began work on *Monarch* in August, 1983, soon after the speed prize was established, according to John Langford, a graduate student in Aeronautics and Astronautics who co-directed the project. About 6200 man-hours of work has gone into the effort, Langford said.

The *Monarch* group also included Mark Drela, a graduate student in Aeronautics and Astronautics who was the other co-director of the project; former graduate students Scott Clifton and Stephen Finberg; MIT and Draper Laboratory employees Barbara Langford and John Flynn; alumni Rick Sheppe and Juan Cruz; and undergraduate Tidhar Shalom '87.

The speed prize is the third human-powered flight prize funded by British industrialist Henry Kremer and administered by the

Royal Aeronautical Society of London. *Monarch* is the fourth craft built by the Department of Aeronautics and Astronautics over the last 15 years in attempts to win the Kremer prizes.

A group in California led by Paul MacCready won the first (Please turn to page 9)

## Gray will not file an *amicus curiae* brief against Solomon Amendment

By Harold A. Stern

Last in a series

It is "unnecessary and undesirable" for MIT to file an *amicus curiae* brief with the Supreme Court opposing the Solomon Amendment, according to President Paul E. Gray '54.

MIT lawyers and independent legal experts advised Gray that the "arguments against the Solomon Amendment are by no means assured of carrying before the Supreme Court; the issues before the Court are likely to be resolved in favor of the government," according to Gray.

Although MIT will not replace the federal aid lost by those students who fail to register for the draft, a group of students is trying to set up a scholarship fund for the non-registrants.

Joseph Minato '84, a member of the student group, said Gray declined to submit a brief because other schools had already filed in opposition to the regulations, and because he did not think a brief with MIT's name on it would impress the Supreme Court.

Gray read the briefs submitted by the University of Minnesota and by Swarthmore College — "the brief filed by Minnesota was comprehensive, and addressed all of the issues; any brief MIT filed could not have improved upon the legal arguments."

Gray said there "is some public cost involved; the public understands the question little. Those who have heard of it at all see the

administrative view he just didn't really quite fit," Halfman said.

The ESG community was originally concerned that a faculty member willing to direct the program could not be found, Halfman said. "The ESG Director must be willing to spend 50 percent of his time on ESG. Primarily, he must be a tenured faculty member who has deep interest in undergraduate education and students and finds this kind of atmosphere challenging. Secondly, he should have a strong background in science and technology," Halfman said.

Holly B. Sweet, associate director of ESG, said, "The ESG director must be interested in student centered education and sympathetic to this. He must also like and respect students."

Halfman said ESG would have been shut down if a new director was not found. "Now there is no danger of ESG closing down. We're feeling good at this point. There was good will among the faculty for ESG," he added.

## Ergo publication might cease

By Charles P. Brown

*Ergo*, a weekly MIT student newspaper, might cease regular publication after its last issue of the academic year appears tomorrow, according to Lisa B. Jungherr '81, editor of *Ergo*.

"The main problem is the lack of writers," she said, adding that the problem "has been growing for several years." *Ergo* currently lists 29 people as staff members.

The staff will make a final decision in September after evaluating the personnel situation at that time.

Jungherr said a secondary problem was finding someone to replace her as editor.

Kevin B. Theobald G, production manager of *Ergo*, said, "We are not sure if there is someone qualified to be editor next year."

Jungherr said she would rather

not be editor of *Ergo* next year because the staff would prefer to have a student as editor, and because she does not want to spend so much time with the paper.

The *Ergo* staff has held several meetings over the past month to discuss the personnel problem, Jungherr said, but they have been unable to identify the cause of the lack of staff. Jungherr said the problems with recruitment could be related to increasing academic pressures on students at MIT, but "I really don't want to speculate on that."

Jungherr said *Ergo* plans to have a table at the Activities Midway during Residence and Orientation Week and to mail a copy of their summer issue to freshmen in an attempt to recruit new staff.

*Ergo* currently has no financial

problems, according to Jungherr. "We are solvent," she said.

The newspaper is published every Wednesday and is distributed at MIT, Harvard University, Boston University and Wellesley College.

## T stop to be renovated

By Ronald E. Becker

The Massachusetts Bay Transit Authority subway stop at Kendall Square will be renovated as part of a major construction project now underway.

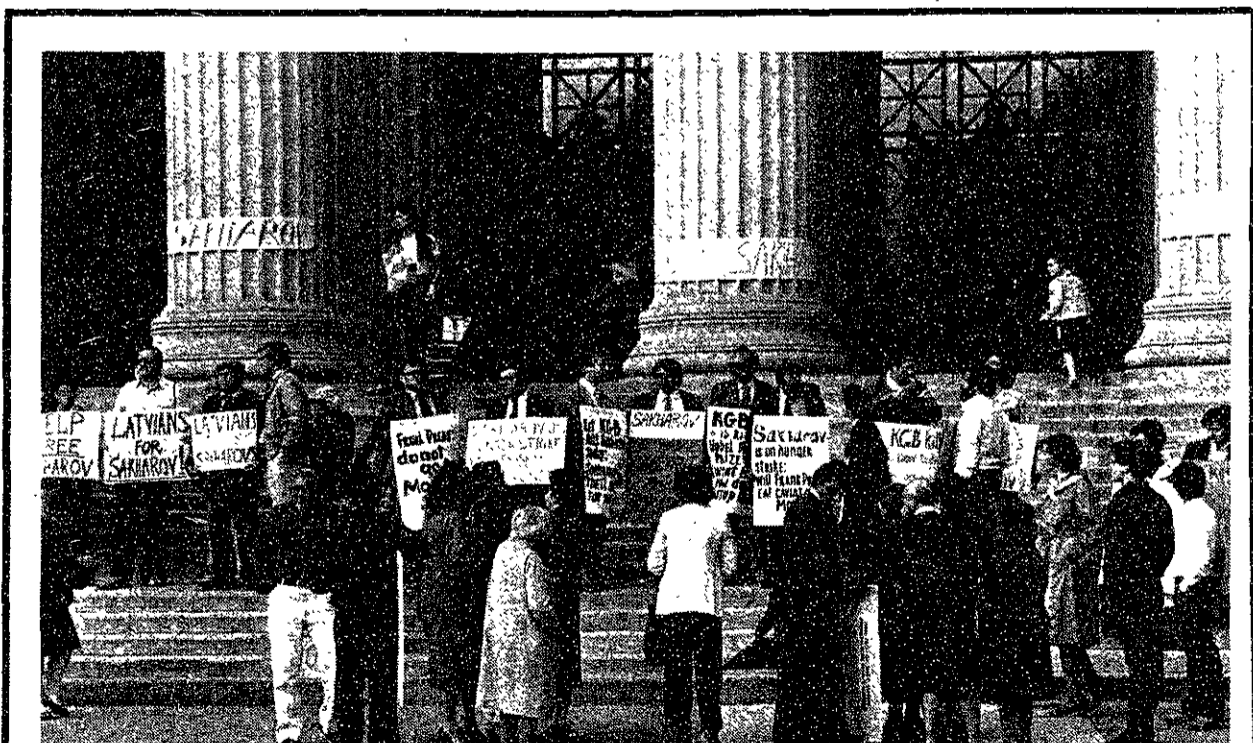
Construction will probably begin in early June, soon after MIT commencement ceremonies on June 4, according to Robert S. Remer, deputy executive director of the Cambridge Redevelopment Authority.

A short section of Main Street will be closed to traffic during

construction; however, Remer doesn't anticipate any problems for MIT students. "Any improvement would be favorable to MIT students," he said.

Train traffic will continue through the station and pedestrians will be allowed on the street. The station will be modernized and lengthened to accommodate longer trains. The Urban Mass Transport made a grant of \$13.2 million for the project.

The renovations are being (Please turn to page 2)



Tech Photo by Simson L. Garfinkel

Representatives of several international community groups, including Soviet American Students and Latvian community members, gathered in front of 77 Massachusetts Avenue Friday afternoon to protest the Soviet treatment of Russian scientist Andrei D. Sakharov and his family. Sakharov, a developer of the Soviet hydrogen bomb and a participant in the negotiations for the Nuclear Test Ban Treaty, received the 1975 Nobel Peace Prize. Moscow has internally exiled Sakharov in Gorky for the past five years. Seven days ago, Sakharov began a hunger strike after Moscow denied his wife life-saving medical treatments.

# Kendall to be changed



The Kendall Square T stop is due for renovation beginning in June.

(Continued from page 1)

made in conjunction with the other developments in Kendall Square. Boston Properties, a speculative development group based in Boston, is the developer for the 13-acre triangle.

The first office building built under this project was completed in 1980. Included in the development plans are a number of other office buildings and a 300 to 350 room hotel.

The MIT-affiliated Whitehead Institute building for biomedical research is one of the buildings that is being built under this plan.

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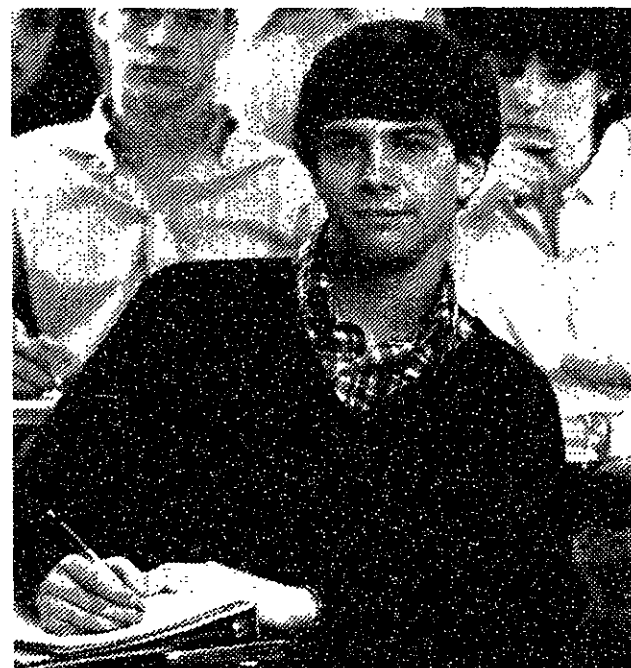
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# news roundup

## World

**Afghanistan concerned about security** — Afghanistan announced Sunday it will join six other nations in supporting the Soviet boycott of the 1984 Olympics. The Soviets have attributed their action to concerns about security at the games. In a poll conducted over the weekend by *USA TODAY*, 56% of Americans questioned said they believed the boycott is in retaliation for the US boycott of the 1980 summer Olympics in Moscow.

**Kidnapped couple called CIA spies** — The Eelam People's Revolutionary Army, a Tamil separatist organization, threatened Saturday to kill an American couple kidnapped earlier last week unless a \$2 million ransom in gold is paid and 20 political prisoners are released. A statement by the Marxist organization accused the couple, Stanley and Mary Allen of Akron Ohio, of being "engaged in intelligence gathering." Stanley Allen is officially employed by the Ruhlin Company of Columbus, Ohio, and is working on a US sponsored water project in Sri Lanka's Tamil Heartland. Sri Lankan president Junius Jaywardene has been quoted as saying his nation will not pay any ransom.

**Reagan's National Security Advisor defends use of covert action** — Robert C. McFarlane, national security advisor, said Sunday that covert action in Central America is an increasingly necessary "intermediate option of policy" between going to war and doing nothing when nations which are friendly to the United States are under attack. McFarlane has said that the public needs to be informed there is a "gray area" between "total war" and "total peace." Congress has criticized covert actions in Central America, in part as a response to the discovery that the CIA has been involved in the mining of Nicaraguan harbors.

## Nation

**Some like it dense** — Philip Abrams, the number two official at the Department of Housing and Urban Development, has attributed the overcrowded housing situation among Hispanic families to "a cultural preference." Abrams, in an interview last week, stated that overcrowding was "a characteristic of Hispanic communities, irrelevant to their social [and] economic conditions." When asked if poverty might affect housing choices, Abrams said "I don't think so. I'm told that they don't mind and they prefer, some prefer, doubling up." Abrams said his remarks were based on a briefing from HUD research office officials. In a later interview, he acknowledged that income might be a factor in housing choices.

## Campus

**Senior House suffering from rash of thefts** — A thief entered the Senior House pinball room through an unlocked back door and broke into two video game coin boxes sometime between 2 a.m. and noon Sunday, according to House President Steven T. Lentz '86. The theft is the latest in a rash of crimes centered around Senior House, including the theft of a camera and a portable stereo from Runkle entry earlier last week. Four intruders have been apprehended in Senior House since September.

## Sports

**Celtics knock out Knicks, 121-104** — The Boston Celtics, led by Larry Bird, defeated the New York Knicks Sunday in Game 7 of their Eastern Conference semifinal series. Bird burned the Knicks with 39 points, 12 rebounds, and 10 assists. Tonight the Celtics will take on the Milwaukee Bucks.

## Weather

**And you thought it was spring** — Today and tomorrow will be unseasonably cold, with intermittent sunshine and a chance of rain.  
Amy Gorin

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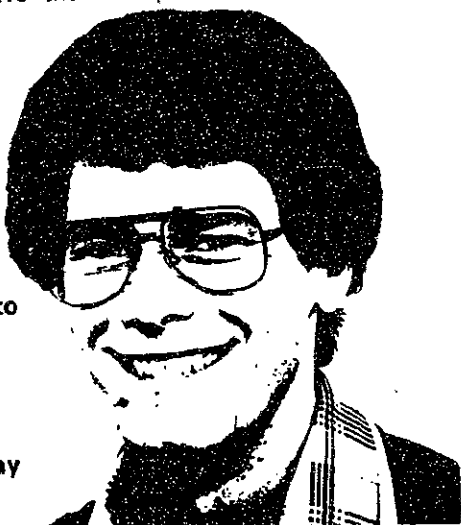
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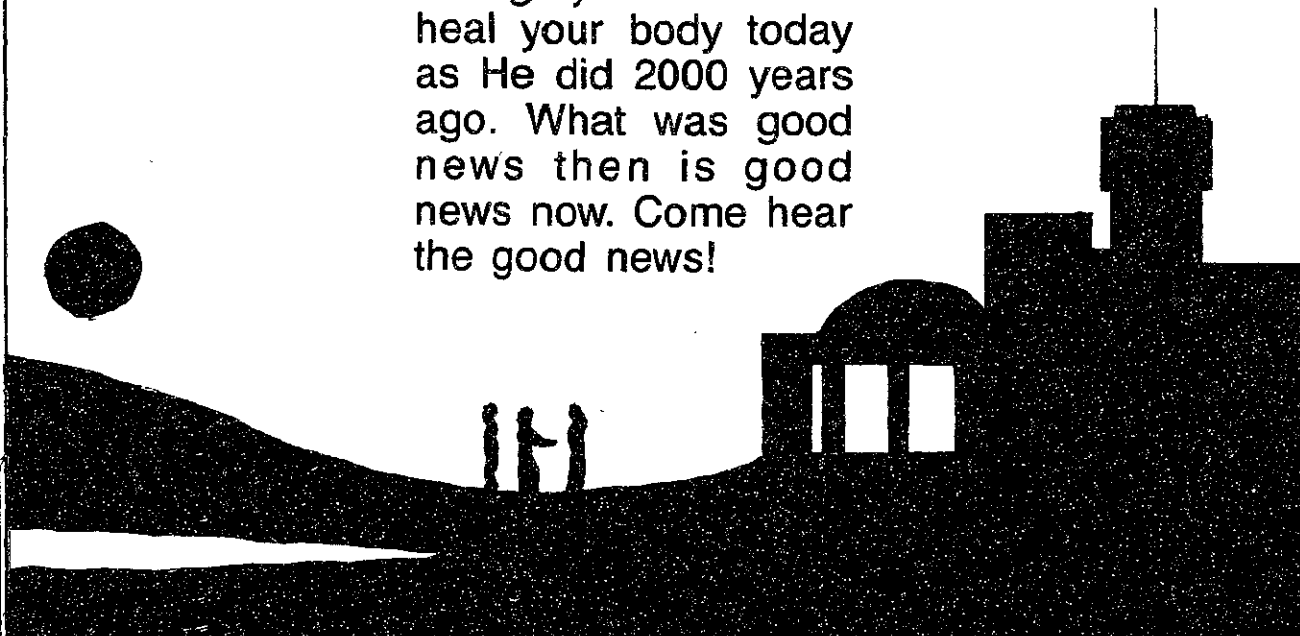
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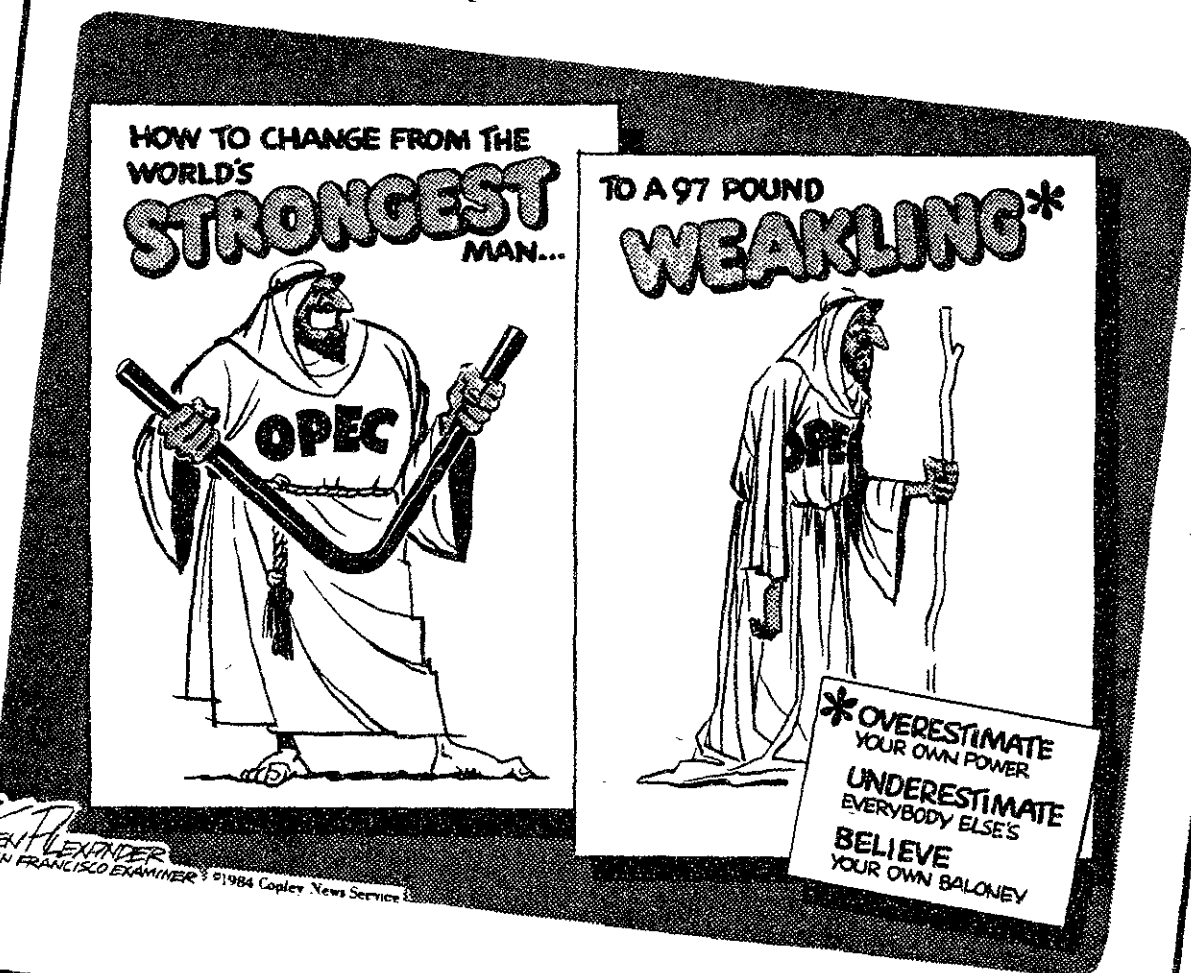
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# Opinion



Guest Column/Paul Boutin

## Some rights which are close to home

It seems that every issue of this paper carries at least two columns or letters addressing "rights". Various writers insist that we either have or do not have one right or another. I thought it was time to do some checking. Rather than debate heavy issues like school prayer or pornography, I thought I would report on the legality of some of the activities we all hold near and dear to our hearts.

• You do not have the right to equip your car with a killer burglar alarm that goes off whenever the wind changes direction. According to local ordinance, the owner of a car who allows the alarm to sound for more than 15 minutes is subject to a fine and may have his car impounded. I'm sure I will get a note from the owner of the black BMW in the Westgate lot about his right to protect his property, but the next time he wakes up everybody in Next House on a Saturday morning he can argue with the Boston police. Perhaps BMW should re-

place the alarm on the car with one surgically implanted in the owner's skull. That would bring him running quickly, I'm sure.

• You do not have the right to write all over every single poster, sign, and notice in the Institute. However amusing or important your comments or grammatical corrections are, rest assured that those who posted the sign do not care, and neither do the rest of us. There is a law against defacement of property other than your own, and I would just once like to read the notices in Lobby 7 without having to parse them out from under the graffiti.

I suppose I should include the writing in the Student Center bathrooms while I'm at it. Do the restroom revolutionaries really think that they can change my political beliefs while I'm on the throne?

Granted, stallroom flaming takes the boredom out of going to the bathroom, but graffiti on posted announcements isn't fun. (Please turn to page 5)

# The Tech

Volume 104, Number 25

Tuesday, May 15, 1984

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The Tech ISSN 0148-9607 is published Tuesdays and Fridays during the academic year (except during MIT vacations), Wednesdays during January, and alternate Tuesdays during the summer for \$12.00 per year Third Class by The Tech, 84 Massachusetts Ave., Room W20-483, Cambridge, MA 02139. Third Class postage paid at Boston, MA. Non-Profit Org. Permit No. 58720. POSTMASTER: Please send all address changes to our mailing address: The Tech, PO Box 29, MIT Branch, Cambridge, MA 02139. Telephone: (617) 253-1541. Advertising, subscription, and typesetting rates available. Entire contents © 1984 The Tech. Printed by Charles River Publishing, Inc.

## UA leaders explain actions

To the Editor:

Despite past differences between the Office of the Undergraduate Association President and *The Tech*, we realize and appreciate the prophetic role of the media in relation to government. Although we appreciate *The Tech* specifying the issues it believes the UA Council should address, we do not feel the criticisms of the particular agenda items are usually constructive. Finally, you should remember that although we have been involved in student government in the past and have spent time familiarizing ourselves with our duties and the issues concerning students, we have been in office only slightly over a month.

To the question of why we have not chosen to discuss the more "substantial" issues, it should be clarified that we do not set the agenda for the UA Council meetings. There is an agenda committee charged with that responsibility to which suggestions can be made; simply write a suggestion down and leave it at the Undergraduate Association office. The general consensus is that to prevent flaming at the UA Council meetings, an agenda will be composed including some background information on the issues and a resolution will be prepared to ensure that debate will remain germane to the topic. Because of the necessity of gaining background information through research, sufficient time is required to present a coherent resolution which will facilitate constructive debate. We attempted to choose items which we felt that the newly elected Council would be prepared to consider without extensive background material.

Topics such as "Course VI overcrowding, forced commons, and Institute budget cuts" require significant amounts of research to be able to have intelligent debate eventually resulting in an effective resolution. Research in these areas is being pursued. We have obtained copies of the Report of the Treasurer and have arranged for questions to be answered regarding particular items we identify. Also, we have met with the Director of Housing and Food

Services inquiring about responses to student discontent with the existing dining services and mandatory commons programs. We are accumulating literature and reports on the Course VI overcrowding problem; in addition we plan to investigate how other universities are dealing with similar problems. We would like to recognize all of the alternatives, hoping in the end to formulate an informed and comprehensive decision.

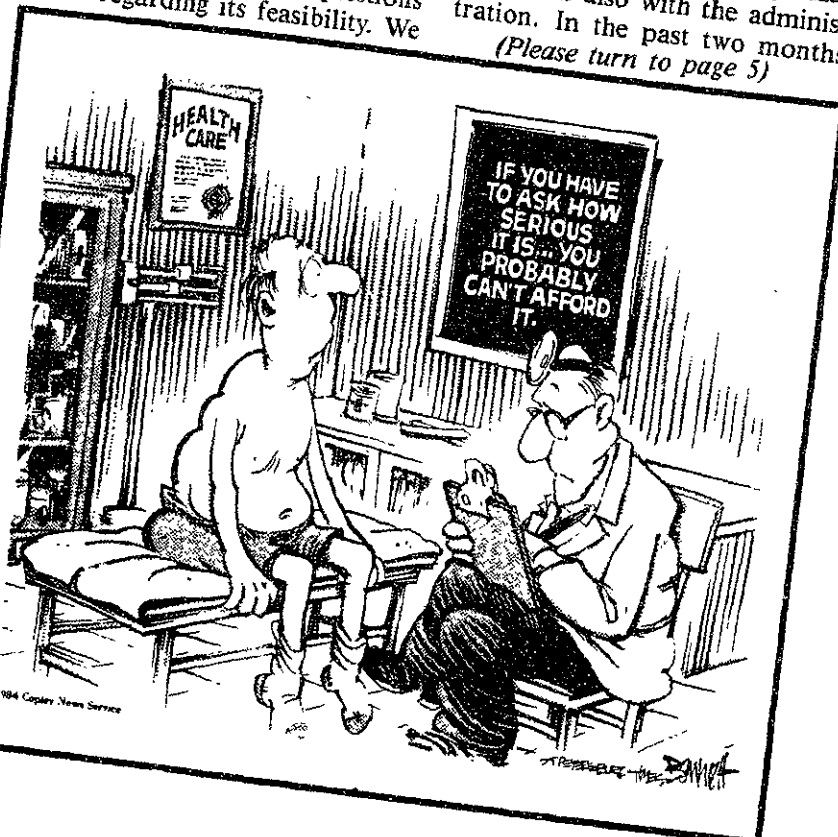
We have found through our interactions with many different members of the administration that students can influence the administration's decisions if we do not assume an unnecessarily adversarial position and if we present thoughtful, informed, and intelligent proposals, suggestions, arguments, and criticisms. Often in the past the UA Council has hastily drawn ill-informed conclusions on important issues, thereby losing respect in the eyes of the MIT community, both students and administration. We are fighting to eliminate the ghost of the ineffective General Assembly while attempting to gain credibility and respect. Now we would like to elaborate on what we have pursued and made progress on.

The proposal to establish a café on the Walker veranda has been investigated and questions arose regarding its feasibility. We

will not elaborate on those here but instead discuss the prospects for complete renovations and restorations of the Student Center and Walker Memorial rather than piecemeal and temporary remedies. A student space evaluation has been undertaken by Association of Student Activities and through cooperation with the appropriate offices and organizations, hopefully a variety of alternatives can be drawn up and studied. This project will also be undertaken because of the two year transition for the establishment of new positions affecting student activities and student facilities.

Plans for an Oktoberfest next fall are being worked on and will be finalized over the summer involving people from the UA Council, UA Social Council, and the Student Center Committee. This demonstrates the increased communication between organizations. Ideally, the UA Council should be the focal point for the flow of information with Committee chairmen and specific organizations reporting their activities to it or seeking representative opinion from it as necessary. We have also increased communication and enhanced understanding not only with student organizations, but also with the administration. In the past two months

(Please turn to page 5)



# opinion



## Which rights are right

(Continued from page 4)

ny at all. How would you like to spend an hour drawing a poster only to find "out of proportion and perspective" written on it the next day? Graffiti should be left to juvenile delinquents; they are funnier than frustrated geniuses.

● You do not have the right to pull malicious computer hacks just because you figured how to do them. Am I allowed to pick your pocket just because I'm good at it? Should anybody who finds a way to beat the Student Center Coffeehouse accounting system be allowed to go free? I have had endless arguments with both hackers and anti-hackers over this, but the Massachusetts legislature has finally taken my side. Malicious hacking is now punishable by a fine of up to fifteen thousand dollars. Think about that the next time you want to modify some class's object library. "It was just a hack" will not hold water in court anymore.

● You do have the right to criticize other student activities incessantly, even in print. I have

often been incensed by the self-important denunciations that appear in this newspaper, but, really, what can be done about it? Sure, *The Tech* has a nasty habit of telling the Student Center Committee, the Lecture Series Committee, the Musical Theatre Guild, *Technique* and especially the Undergraduate Association Council what to do and how to do it. Sure, none of the armchair critics at *The Tech* are going to join *Technique* or write a musical next year. They will still be here, criticizing the same activities they did last year and getting the last word on any replies. But that is what newspapers have always done and will always do.

I know it really pisses people off when they are attacked in print by people who hardly know what they are talking about, but that's freedom of speech, and there is no fair way to censor it. I was ready to decapitate one of these evil columnist types myself, but he suggested that I write my own column instead. I hate to remind you, but this is MIT, and you can do that here.

## feedback

### Interphase leader explains program

To the Editor:

The following is a response to Simson L. Garfinkel's column on Project Interphase:

Dear Simson,

I read with interest your open letter to President Paul E. Gray '54 on Project Interphase. While there is much in the column that is correct, let me clear up some obvious errors by briefly describing what Project Interphase is all about. The program seeks to ensure success of minority students at MIT by improving the academic and social skills of a selected group of minority students who are invited to attend. The criteria for selection include: prior student experience in summer programs like this; the quality of the high school from which the student comes (has it been able to provide exposure to labs, lecture, and other academic opportunities *i.e.* high quality educational services?); the competitive academic environment from which the student comes; the social environment from which the student comes (is it like MIT?); the aca-

demical record of the student's personality *i.e.* maybe the student is a bit too shy.

An examination of these selection criteria then provides some of the reasons why we have a Project Interphase — to eliminate potential stumbling blocks before the MIT semester begins so that students will not feel inadequate about themselves or MIT. Should it be available to all students? Certainly a program like this would be of value to many students. Is the program "remedial"? If by remedial you mean "to correct or improve one's skills in a particular area" then, yes, it is remedial. In that vein, I would hope that all of our lives are remedial. But, if by remedial you infer that these students are so far behind that they must have a program like this to, in some way, bring them up to the same levels of academic and social competency as other MIT students, then, no, Project Interphase is not remedial. Finally, much of the curriculum for Project Interphase emanates from the Departments of Physics,

Math, Chemistry, and the Writing Center. I am sure they would welcome your comments about the curriculum.

Dr. William D. McLaurin  
Director, Project Interphase

## feedback

### Bexley residents want fire permit

To the Editor:

It has been a tradition for at least the last four years at Bexley Hall to hold a cookout, "The Beast Roast," each spring in the Bexley courtyard. Although this involves having an open fire, the Cambridge Fire Department has issued fire permits for this purpose in the past without incident.

This year, however, with less than a week to go before the event, we found out through our own inquiries that the MIT Safety Office is now in charge of issuing fire permits on campus. After being repeatedly deflected through the well-established MIT bureaucracy, we discovered that the Safety Office is unwilling to grant our request for a fire permit to be used in the usual location: the Bexley courtyard. It seems unusual that the Cambridge Fire Department has been willing to grant our requests in the past but MIT's own Safety Office is now unwilling. In addition, we cannot see how their action is being responsive to the wants of the students.

Furthermore, we feel that denying a fire permit to Bexley the

week following the Senior House Steer Roast is discriminatory. When this was mentioned to the Office of the Dean for Student Affairs, we were told that it was unlikely that the Steer Roast would be allowed to occur in the Senior House courtyard in years to come.

If there had ever been a problem with these events in the past, we could understand the rationale for such fire regulations. To our knowledge there has never been any problem with an uncontrolled fire at these events, and we feel that these new fire regula-

tions are completely without justification.

Although these regulations may only directly affect the future outdoor parties at Senior House and Bexley, we feel that the forced relocation of Steer Roast and Beast Roast will be felt throughout the campus. We will be circulating a petition among MIT students voicing our disapproval of the new policies regarding fires at outdoor parties. In addition, petitions will be made available at the Bexley and Senior House desks.

Twenty-six residents of Bexley Hall

### UAC actions defended

(Continued from page 4)

we have established working relationships with many administrators, attempting to fulfill our duty of acting as a liaison between students, student government, and the administration. In particular, we have been communicating often with the Student Center Committee beginning in mid-April, attempting to promote the understanding and trust which has been lacking in the past. Because of this, we were better prepared to deal with recent events and look forward to establishing relationships which will mutually beneficial in the future.

Now a few comments regarding the last UA Council meeting when the Alcohol Policy Committee resolution was passed. We have contacted the chairman of the committee, Dean Leo Osgood, and the chairmen of the InterFraternity Conference and the Dormitory Council to arrange a meeting of the committee. We will be studying alcohol use policies on other campuses across the nation to gain insight into the MIT problem and possible solutions. The decisions and discussions of this committee will be communicated to the UA Council and representative opinion will be solicited on a regular basis.

The reasons for choosing the Alcohol Policy Committee as an agenda topic are that it was something we could have an ef-

fect on since it was in the preliminary stages, it is a topic of interest to students at MIT, and it is something which at this time does not involve extensive research. Therefore, it could be dealt with in a reasonable amount of time and discussed later as necessary. Debate of a truly substantial issue or one which has been discussed in other forums would require presentations by groups involved and could result in a flaming session (which the General Assembly was notorious for) with no tangible outcome or benefits. A debate of a controversial issue would also merit more than a single UA Council meeting due to the sensitive nature and possible ramifications.

Lastly, we would like to thank *The Tech* for referring to the UA Council as "MIT's sole organ of student government" in the May 8th editorial, despite the Council's predecessor's past ineffectiveness. However, we would also like to point out that although the UA Council's predecessors have at times seemed less than competent, the UA General Committees and the Association of Student Activities often were able to continue to perform their functions, thus exemplifying the strength of the Undergraduate Association.

David M. Libby '85  
UA President  
Stephanie L. Scheidler '85  
UA Vice President

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

**Columns** are usually written by members of *The Tech* staff and represent the opinion of the author, and not necessarily that of the newspaper.

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

All submissions should be typed, double spaced, on a 57-character line and bear the authors' signatures. Unsigned letters will not be printed, but authors' names may be withheld upon request. *The Tech* reserves the right to edit or condense all letters.



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# The Tech

MIT  
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Massachusetts

## SUMMER 1984 PUBLICATION SCHEDULE

Regularly scheduled publication will end on Friday, May 18.

**Monday, June 4, Commencement Day**

**Tuesday, June 19**

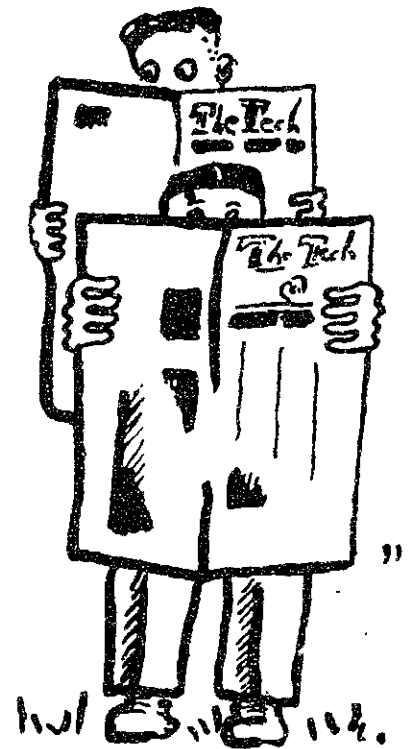
**Tuesday, July 3**

**Tuesday, July 17**

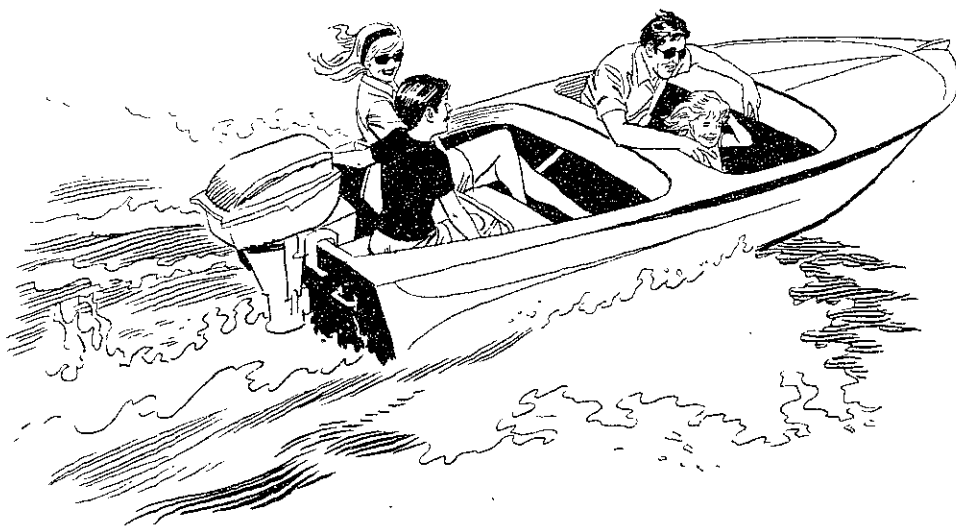
**Tuesday, July 31**

special color issue mailed to all incoming freshmen

**Tuesday, August 14**



Regular Tuesday/Friday publication will resume at the beginning of R/O, Friday August 31, 1984.

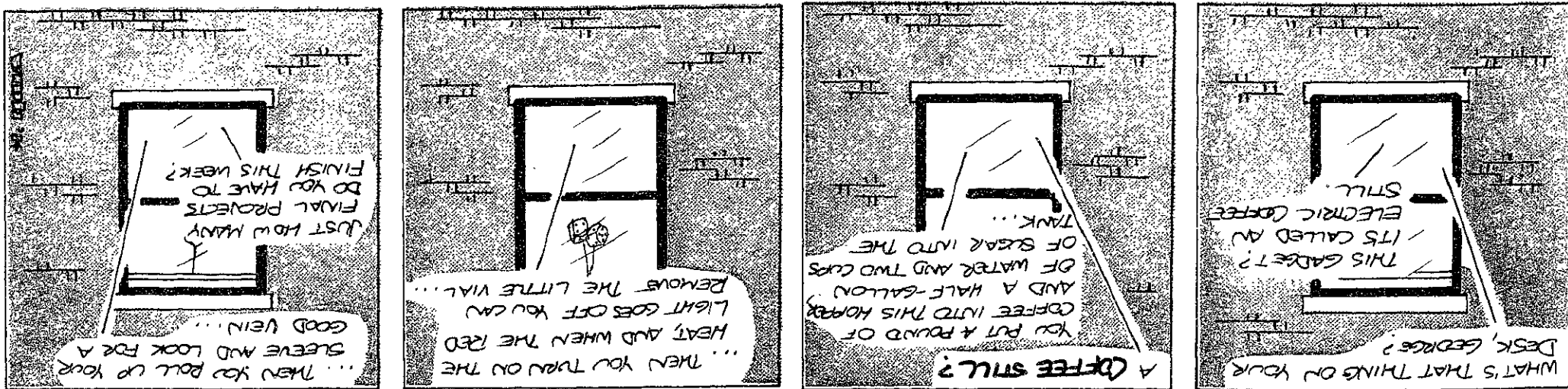


For *The Tech*, the summer is a time for planning and organization, an opportunity to make up for lost time, work with new staff, and get into top shape for the new year. Stop by anytime to find out what you can do for *The Tech*.

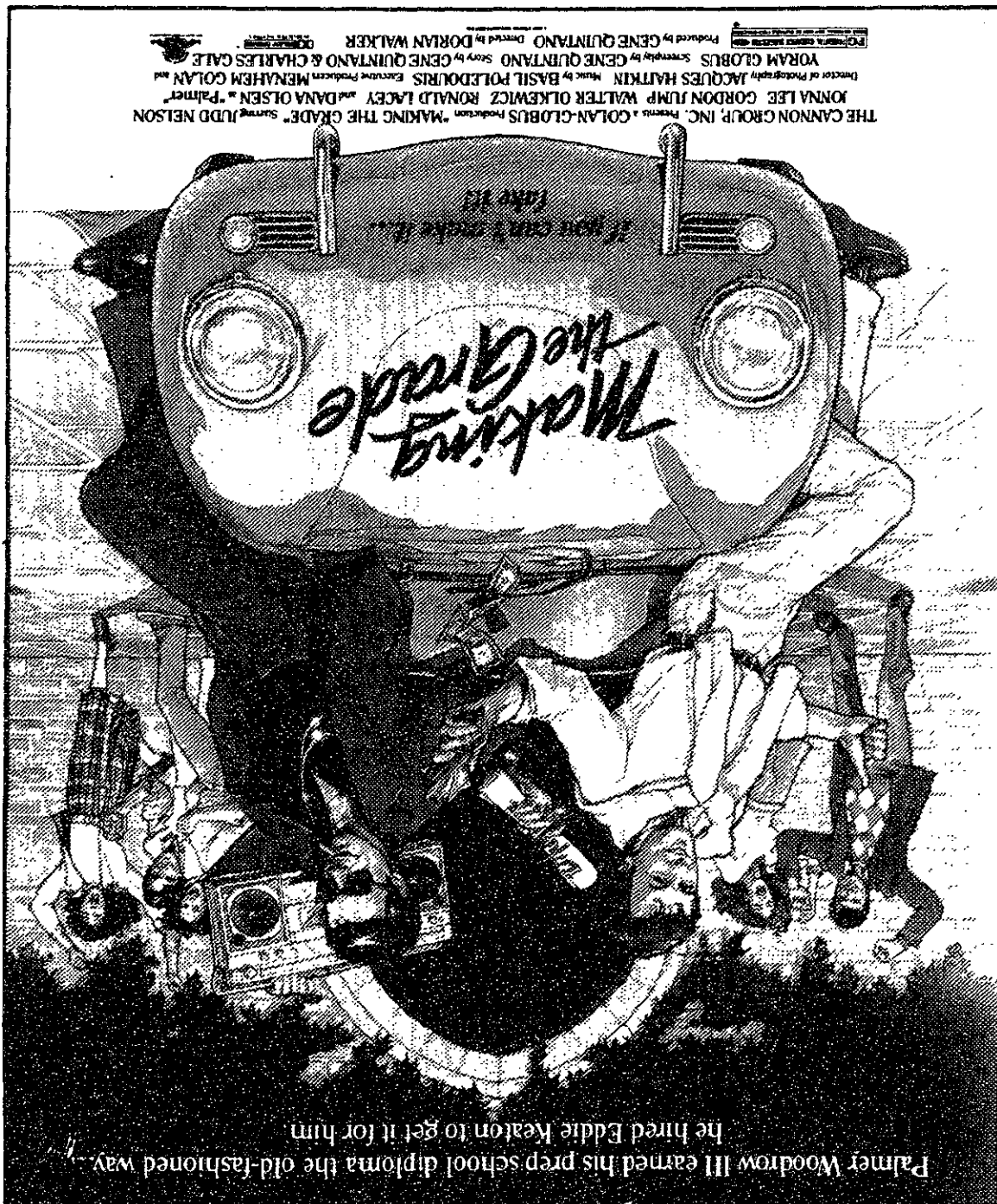
The summer is a chance to explore new areas that you have to exclude from your busy semester of coursework. *The Tech* has over 100 years of experience in journalism, newspaper design, photography, and typography. If you are going to be on campus this summer, stop by anytime to find out what *The Tech* can do for you.

COMICS

Outside Looking In By V. Michael Bove



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notices

Listings

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

Tuesday, May 15

Join the World Affairs Council of Boston for an evening in French Canada featuring French food and film presentation on Quebec. Will be held in the Council Rotunda at 22 Battery-march St., at 6 p.m. Admission \$6, students \$3, new members free. Call 482-1740 for more information or reservations.

Mount Auburn Hospital will offer an "Alzheimer's Workshop," presented by Daniel Asnes, M.D., director of Psychiatric Consultation Liaison Services at Mount Auburn Hospital. The program will be held in the cafeteria, 330 Mount Auburn Street, Cambridge, at 7:30 p.m. Fee: \$3. Those over 65 will be admitted free. For more information call 492-3500, ext. 1766.

Wednesday, May 16

Paul E. Gray '54, President of MIT, will give a Lowell Lecture on "Science and a Liberal Education" at the Cambridge Forum, 3 Church Street, Harvard Square at 8 p.m. Free.

John Scallon, U.S. Ambassador-Designate to Poland, will examine Poland fifteen months after the official suspension of martial law — Has Solidarity been crushed? Sponsored by the World Affairs Council of Boston in the Council Rotunda at 22 Battery-march St., at 6 p.m. Reception/program \$6, members \$3, students \$2. Call 482-1740 for more info or reservations.

Mount Auburn Hospital will offer a program on "TMJ (Temporomandibular Joint Syndrome)" presented by Walter Guralnick, D.M.D., and David Keith, D.M.D., Harvard School of Dental Medicine, Mass. General Hospital. The program will be held in the cafeteria, 330 Mount Auburn Street, Cambridge, at 7:30 p.m. Fee:\$3. Please call 492-3500, extension 1766, for more information.

The MIT Dramashop will hold its final meeting at 7:30 p.m. in Kresge Auditorium, Rehearsal Room A. There will be an election of next year's officers, slides from this year's productions and plans for next year. Refreshments. If there are any questions, call Jeanette I. Mitrano, 3-2877,

Thursday, May 17

High Technology Professionals for Peace and MIT Desarmament Study Group are sponsoring a Benefit Chamber Music Concert to be held at 7:30 p.m. in MIT's Kresge Auditorium. Suggested donations is \$6, students and senior citizens, \$3. Refreshments will follow; all are welcome.

Friday, May 18

"Holography: Astonishing Real 3-D Laser Photography" featuring Stephen Benton, Associate Professor Media Technology at MIT, will be held at the MIT Club of Boston. The reception/dinner will begin at 6:30 p.m. Price: \$13 for club members and their guests; \$15 for non-members and their guests. For more information or to make reservations, call 965-7701.

Saturday, May 19

"Nuclear Issues and Our Families" will feature speaker Dr. Eric Chivian, staff psychiatrist at MIT and co-founder of International Physicians for the Prevention of Nuclear War. The forum will be held from noon to 4:30 p.m. at the Belmont High School, 221 Concord Avenue, Belmont.

Monday, May 21

China and the U.S.: Five Years After Normalization, with Patrick G. Maddox, Associate Director, John K. Fairbank Center for Asian Research, Harvard University. Sponsored by the World Affairs Council in the Council Rotunda, 22 Battery-march St., at 5:30 p.m. Wine/Cheese Reception/Program \$6, members \$3, students \$2. Call 482-1740 for more information or reservations.

A lecture-discussion entitled "The Ex-Spouse Relationship: How to Reduce Conflict and Strengthen the Remarriage" will be at 8 p.m. at the Institute for Remarriage and Stepfamilies, 259 Walnut St., Newtonville. Questions and answers, and discussion will follow. Free. For more information call 964-6933.

Tuesday, May 22

The NSA: America's Most Secret Intelligence Agency, with James Bamford, author of *The Puzzle Palace*. Sponsored by the World Affairs Council's Young Professionals Forum, at the Federal Club, 100 Federal St., Boston, at 6 p.m. Reception/Program \$8, members \$5. Call 482-1740 for more info or reservations.

Wednesday, May 23

David Riesman, co-author of the influential *The Lonely Crowd*, will give a Lowell Lecture on "Great Vocations: The Educator" at Cambridge Forum, 8 p.m., 3 Church Street, Harvard Square. Free.

Wednesday, May 30

Michael McElroy, Professor of Atmospheric Sciences at Harvard, will speak on "Are We Destroying the Atmosphere?" at the Cambridge Forum, 8 p.m., 3 Church Street, Harvard Square. Free.

Monday, June 4

Larry Burton, an experienced family therapist, will give a free lecture entitled "Making Relationships Work After Divorce." Suggestions will be offered for developing trustful relationships. The presentation will be at 8 p.m., at Riverside Family Institute offices, 259 Walnut St., Room 14, Newtonville. For more information, please call 964-6933.

Ongoing

A new exhibition is currently at the Isabella Stewart Gardner Museum, running through May 20. The exhibit, "An Eminent Horticulturist," will focus on Mrs. Gardner's lifelong interest in gardening and her love of flowers. The exhibition includes photographs, rare books on horticulture, Gardner's personal sketchbook, selected letters, and newspaper clippings. Contact Hope Coolidge, 566-1401.

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

The following exhibit is being held at the Margaret H. Compton Gallery from April 12 to September 29. **Ring the Banjar! The Banjo in America from Folklore to Factory** will exhibit more than 50 of the most beautiful and historically important American Instruments, dating from the mid-18th century to about 1940. Building 10, 1st floor. Monday through Friday 9 a.m. to 5 p.m. Free.

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

200 archaeological treasures from Israel, the result of recent excavations on land and in the waters off Haifa's coast, are being displayed in a major exhibit, "Crossroads of the Ancient World: Israel's Archaeological Heritage" from May 1 through July 31, 1984 at the Harvard Semitic Museum, 6 Divinity Avenue, Cambridge. Museum hours are Monday through Friday, 11 a.m. to 5 p.m., Saturday and Sunday from 1 p.m. to 5 p.m. Admission \$2.50 per person, \$1.50 senior citizens, children under 12, and students with I.D. Members free. Guided tours available by reservation at \$1.50 per person for groups of 10 or more. For further information, call 459-3123.

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

For guidelines, write to Younger Scholars Guidelines CN, Rm. 426, The National Endowment for the Humanities, Washington, D.C. 20506

**Black and White and SX-70 Photographs** taken in MIT laboratories by Scott Globus exhibited throughout the Institute. Displays in the Infinite Corridor near Lobby 7, and the Science, Humanities, Student Center and Engineering Libraries. Aesthetics.

Anthropology and Science in pictures. \* \* \* \*

A special exhibition of lithographs by 19th-century French artist Honore Daumier entitled "Daumier on Art and the Law," will be shown in the Trustman Art Gallery at Simmons College, 300 The Fenway, Boston from May 1 through June 4. Gallery hours are 10 a.m. to 4:30 p.m. weekdays, and admission is free. For more information call 738-2124.

Travel Trivia

Where is Europe's longest bridge?

ANSWER:  
Osland Island Bridge, Sweden is 19,882 feet long.

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# Flight group could win prize

(Continued from page 1)

Kremer prize, offered in 1959 for flying in a figure-eight pattern. In 1977, MacReady's group also won the second Kremer prize, for flying across the English Channel.

Because the contest rules allow only ten minutes from the time the pilot gets into the cockpit until he passes the starting line at a minimum altitude of two meters, Scarabino was only able to charge the batteries for seven minutes. A bid by MacReady's group to win the speed prize failed because his pilot took too long charging his batteries.

No minimum altitude was specified for the rest of the course, and Scarabino kept the plane about eight feet off the ground.

"The Royal Society took two months to reject MacReady's attempt [at the triangle speed record] in his plane, the *Bionic*

*Bat*, last September," Langford noted. He expects the Society will take "two weeks to two months" to process the *Monarch* group's claim. "If we win, we'll go to London to pick it up," he said.

Kremer and the Royal Society have offered further prizes of about \$7,500 apiece for each group to break the speed record by 5 percent or better, Tavares said. The rules stipulate that if the group wins the original speed prize, it may not win the additional prizes for breaking its own record within the next year, according to Langford.

This restriction will be suspended in the case of the group that set the original record breaking a new record set by another group, he noted.

Langford said the group plans to give a demonstration of *Monarch* later this week, and will keep it hangared thereafter until their claim to the Kremer prize is

confirmed.

"After that, we'll let those who've worked on it try to fly it, and if it survives — and that's a big 'if' — we may try to get a government contract to do some instrumental measurements on the aerodynamics. The plane could also go into a museum, or it could just get cut up," Langford said.

Low-speed flying is an area of increasing interest to the Office of Naval Research and NASA, according to Langford. Once the province of model airplane hobbyists, the aerodynamics of low speeds have found applications in the very high and very low altitude aircraft used by the military, he observed.

"There's a new low-speed flight lab at MIT, and we might join up with them, but we haven't identified any specific agencies or contracts for our work," Langford said.

# Gray: brief "undesirable"

(Continued from page 1)

openly express their support of a repeal if he is to succeed.

Minato said he thinks Gray will wait until the Supreme Court announces a decision before he lobbies before Congress.

Gray does not want to "call in favors" and then have them wasted if the Court ruled against the amendment, according to Minato.

"In getting things done in Congress, one possesses only a finite number of chips," Gray explained. "I will use whatever influence I might have with the

Massachusetts delegation — it is foolish to do anything right away."

Gray said he does not believe Congress will repeal the regulations. "They will go with their constituents; most men will not take a position on this issue that will alienate the majority of their constituents."

Although Gray is opposed to the Solomon amendment, he said he believes those who refuse to register for the draft are doing so "foolishly, because there is no draft, and if there is one, they will be given the opportunity to

register as a conscientious objector."

The statutes regarding conscientious objector status, however, will not automatically protect students from being drafted, Reynolds claimed.

Most draft boards in the past, according to Reynolds, interpreted the regulations as requiring that a conscientious objector "be against war in any form, someone who would not even defend the United States if attacked."

"There are very few non-registrants who can say that," Reynolds said.

## notices

### Announcements

Dr. Gray will hold open hours Tuesday, May 22, from 3:30 to 5:30 p.m. Members of the MIT community may schedule a fifteen-minute appointment on a first-come, first-served basis by calling 3-4665 or stopping by the reception area in Room 3-208 on May 22. This is the last session of open hours to be held this term.

International Student ID cards (ISIC) are now available in the office of Career Services, Room 12-170. The ISIC can be an invaluable asset to the student who will be studying or travelling abroad. Foreign students holding F-1 visas are also eligible for the ISIC. For more information contact: Marianne Ciarlo, Foreign Studies Coordinator, Office of Career Services and Preprofessional Advising, Room 12-170, ext. 3-4735.

The Jeffrey M. Frank Scholarship for 1984-85 is currently available through the Combined Jewish Philanthropies. Preference will be given to Jewish students from the greater Boston area. Please contact Lucy Van der Wiel or Lisa Oteri in the Student Financial Aid Office for further information.

All sophomores are expected to have completed a proposal form for a humanities, arts, and social sciences concentration before the end of this semester. Visit the concentration field advisor for the field of your choice. Further information and names of field advisors available in the Humanities Undergraduate Office, 14N-409, 253-4441.



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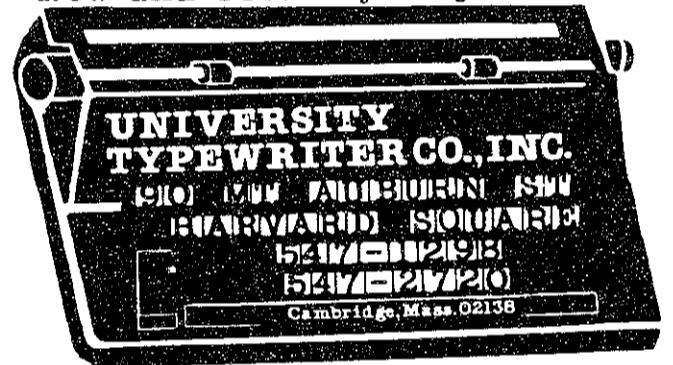
The 24th edition of *Serials in the MIT Libraries* is available. Prepayment is required. \$10.00; MIT staff and students, \$3.00. To order please send check payable to MIT, Office of the Director, Room 14S-216, MIT Libraries, Cambridge, MA 02139.

## OPENINGS FOR S.B. GRADUATES AT WEST COAST MANAGEMENT CONSULTING FIRM

Marakon Associates, a noted West Coast management consulting firm which regularly recruits at the Sloan School, is also interested in hiring some bachelor's level graduates. It is looking for self starters with strong conceptual, analytical, and inter-personal skills and an interest in business issues. Some course work in finance and business policy would be an asset. Further information about the firm is available at the Office of Career Services, Room 12-170. Candidates should write, enclosing a resume, to: Mr. Andy Eckert, Associate, Marakon Associates, 444 Market Street, San Francisco, CA 94111

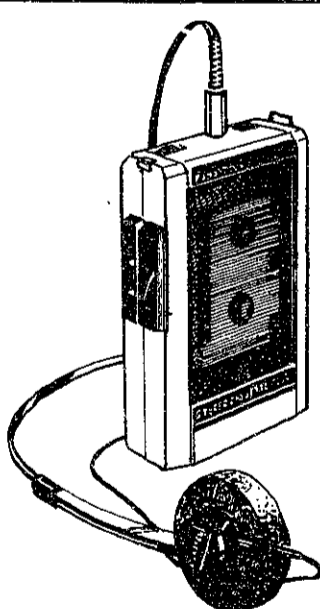
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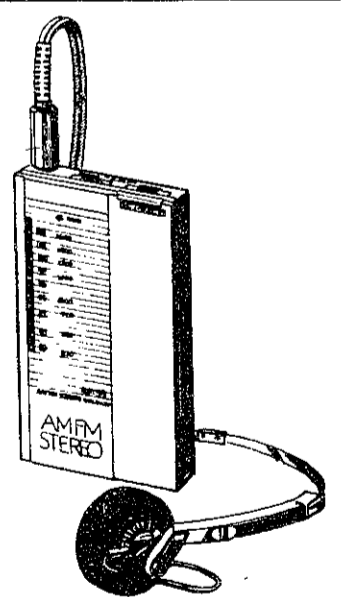


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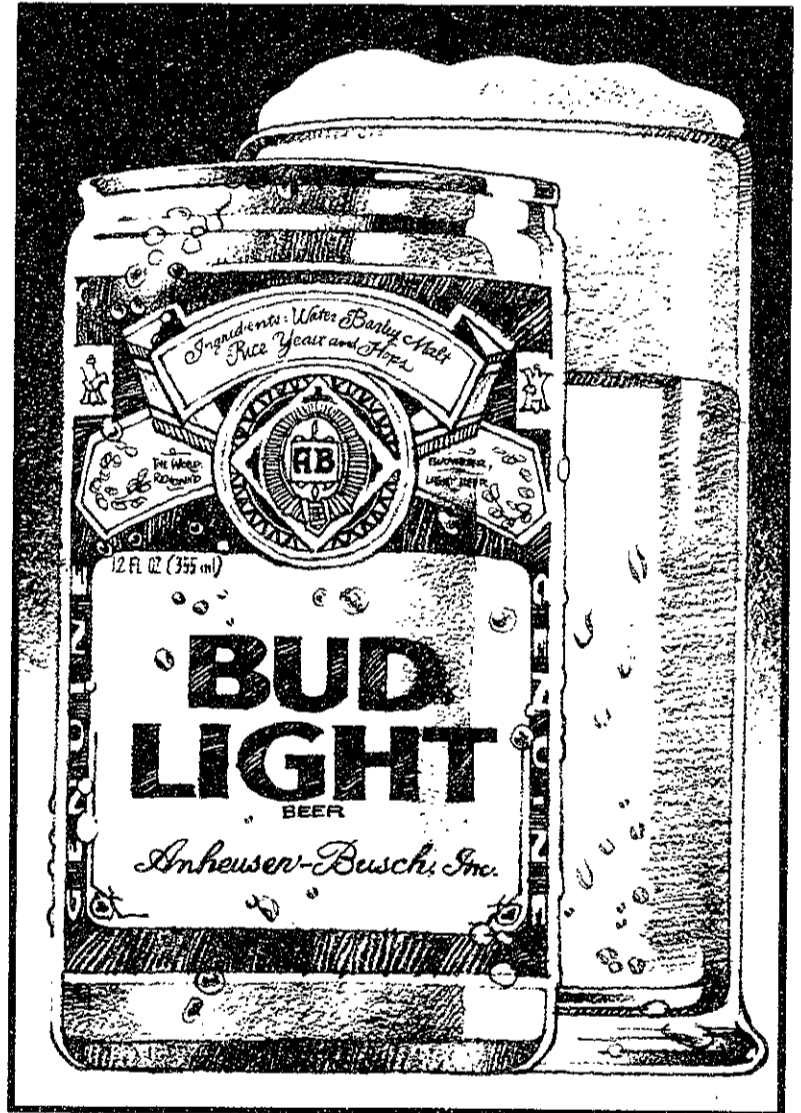
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# Novice crew first in regatta

(Continued from page 12)

Englands, leaving Wesleyan a boatlength behind at the finish line. Rowing in the first novice eight were Elizabeth Erskine '87, Bonnie Leonard '87, Katharine Moore '87, Marjolein van der Meulen '87, Mary McCartney '84, Jennie Kwo '86 and Tina Cortesi '87 with Jeri Ikeda '87 coxing.

The second novice eight had petitioned for an afternoon race and finished first, 20 seconds ahead of previously undefeated Simmons College. Eve Riskin '84 coxed the second eight, with rowers Susan Rowell '87, Denise Neirinckx '87, Kathleen Wienhold '85, Catherine Smith '85, Susa. McDermott '87, Yuki Kimura '86, Susan Tucker '87 and Cindy Boulanger '85. The MIT crew took the lead by the 500 meter mark and finished several boatlengths ahead of Simmons and third-place Wesleyan.

*Editor's note: Susan McDermott is the captain of the women's novice crew team.*

# notices

## Announcements

The Peace Corps is offering skill-training for programs utilizing the backgrounds of college graduates with mathematics and science minors. Peace Corps volunteer serve for two years. During their service they receive a generous living allowance, paid travel, training and health care. A post-service readjustment allowance of \$175 per month is paid to each volunteer. For information on Peace Corps service, call 223-6366 or 7366, or write PEACE CORPS, 1405 McCormack POCH, Boston, MA 02109

U.S. Student Pugwash has prepared a directory of **Science in Society Internships** for students who are interested in summer experience with various aspects of how science affects society. A copy of the directory is available in the Placement Office, Room 12-170. For more information on the directory or about MIT Student Pugwash, contact Robin at x3-6466.

**Women: Are you interested in radio?** Do you like jazz, R&B, and women's music? If you'd like to learn how to be an announcer and/or engineer on WMBR's "Musically Speaking" (Sundays 1-3 p.m.), call Melanie Berzon 494-8810 or 492-2777 x2300 and leave a message.

The Undergraduate Academic Support Office is making available to all departments, offices, living groups, and activities, **copies of the complete updated list of freshmen** (Class of 1988). The lists are available at a cost of \$4.25 in alphabetic or zip order at a cost of \$6. Orders should be placed in the UASO, 7-104, before May 16, 5 p.m.

"European Portraits," an exhibit of color photographs portraying the charm and character of the people of Europe will be on view at the French Library in Boston May 2-31. Library hours are Tuesday, Thursday, Friday, 10 a.m.-5 p.m.; Wednesday, 10 a.m.-7 p.m.; and Saturday 10 a.m.-2 p.m. Free and open to the public. For further information call 266-4351.

## QUALITY TYPESETTING ON CAMPUS

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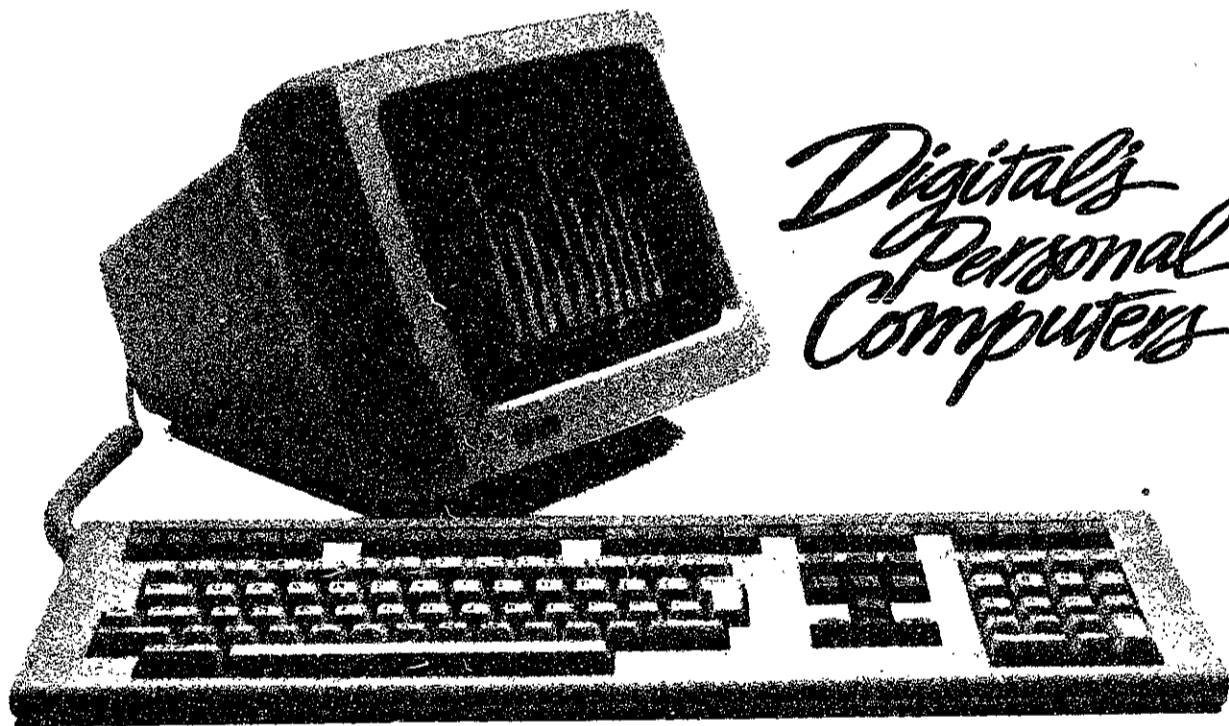
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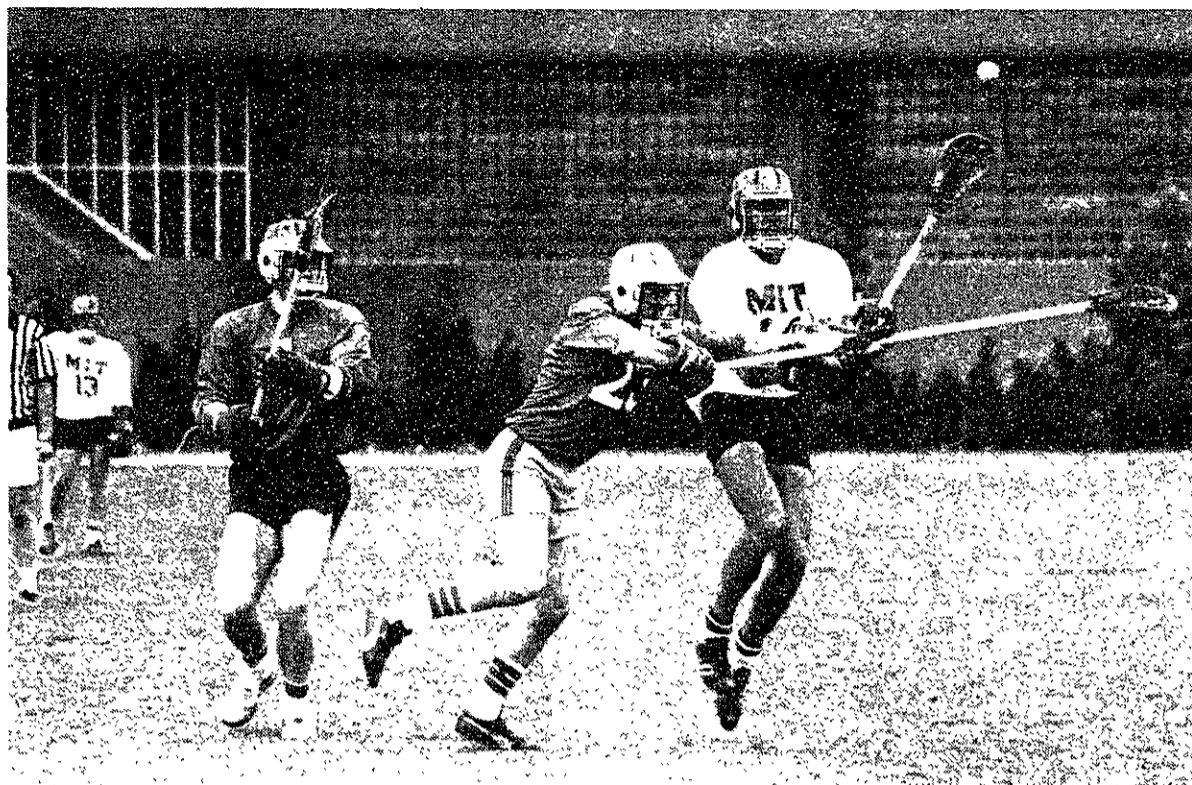
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# sports



The lacrosse team lost their annual game with an alumni team composed of former team members Saturday, 11 to 6. Tech photo by Willie Tsang

## Women's crew wins at regatta

By Susan McDermott

On Saturday, May 5, the women's varsity and novice crews pulled off several wins at the New England Invitational Regatta in Worcester. MIT raced Wesleyan University, University of Massachusetts, Simmons College, Connecticut College, University of New Hampshire, and other regional schools over a 2000-meter course.

The varsity eight placed first in their morning heat to qualify for the afternoon finals, despite a collision with the University of Massachusetts varsity eight which tore the bow off MIT's new carbon-fiber shell, the *Joe Landquist*. The boat was temporarily repaired with tape and a two-by-four and was used again in the afternoon.

The varsity almost pulled off a come-from-behind win in the fin-

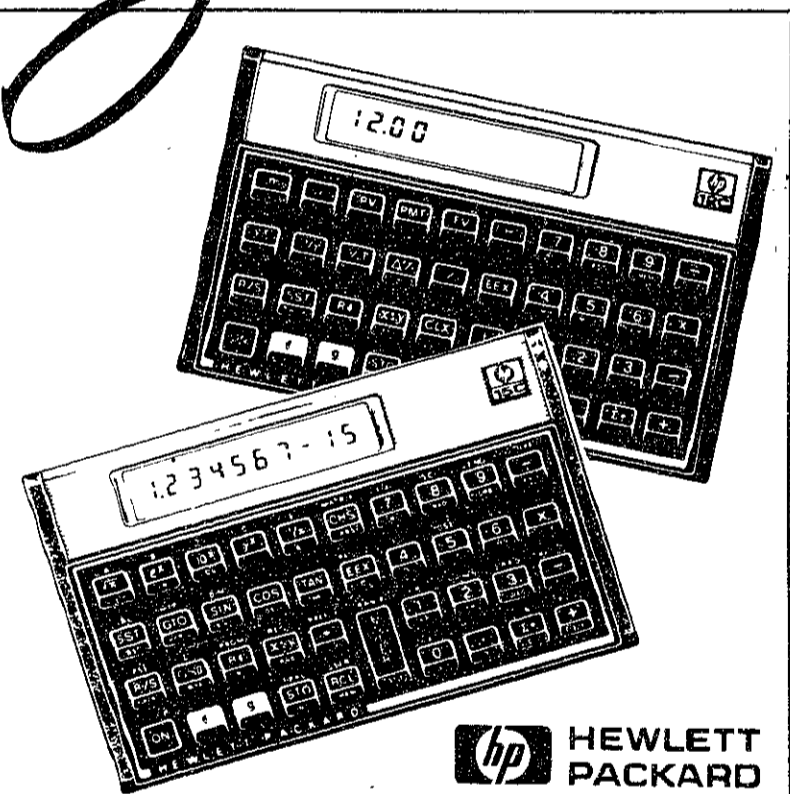
als, but lost to the University of New Hampshire by one second. The varsity crew consisted of Linda Mar '85 (cox), Elizabeth Bradley G, Ruth Fricker '85, Jocelyn Patterson '84, Linda Muri '85, Linda Siemer '84, Maureen Sybertz '85, Heidmarie Stefanyshyn '84, and Jeanne Simon '86.

Coach Mayrene Earle said the damage to the varsity boat "didn't hit the crew until the finals. They were missing the mental edge needed to win the race."

On May 13, still racing in the injured boat, the varsity finished second to Yale University by half a boatlength in the petite (second-level) finals of the Eastern Association of Women's Rowing Colleges Sprints.

The first novice eight easily won both its morning heat and the afternoon finals at the New (Please turn to page 11)

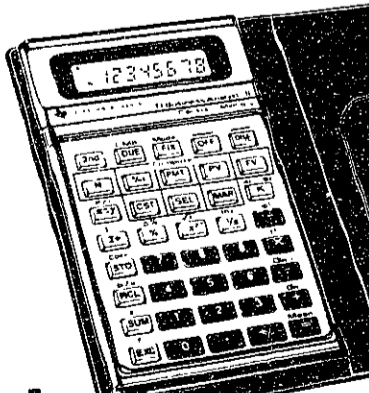
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