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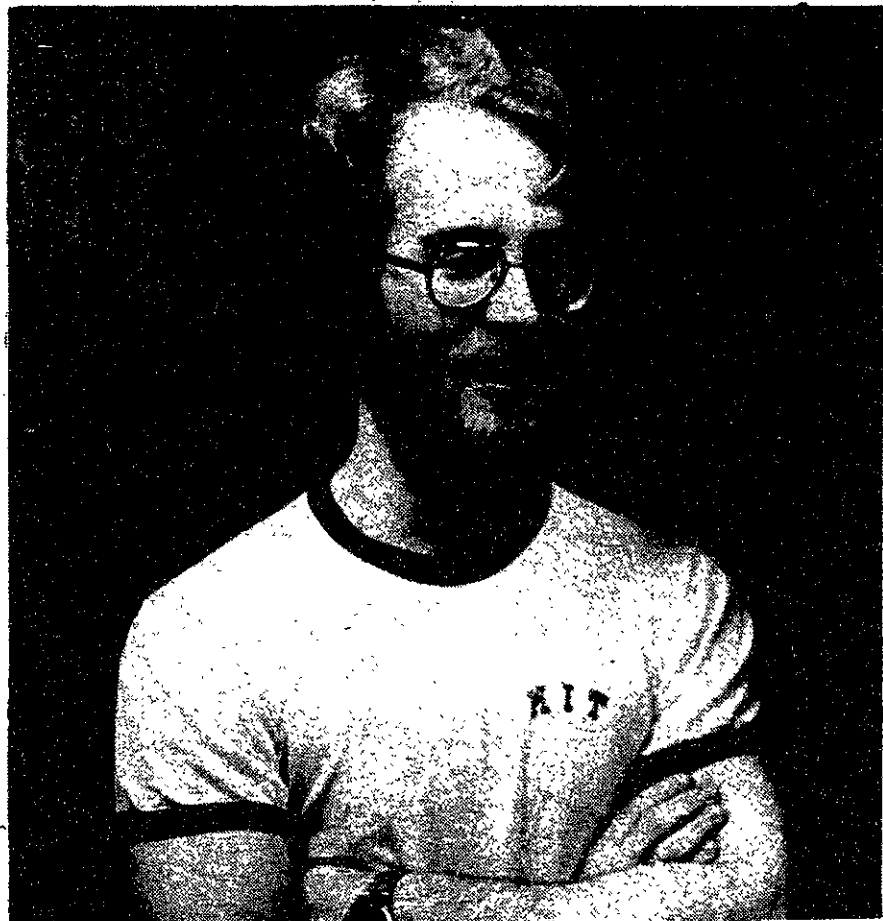
Volume 100, Number 14

The Tech

Centennial Volume

MIT
Cambridge
Massachusetts

Friday, April 4, 1980



GA Secretary-General Steve Forman (*The Tech* file photo)

UA candidates granted extension

By Richard Salz

Acting on a complaint by Undergraduate Association President (UAP) Jon Hakala '81 the General Assembly (GA) went into emergency session last night to discuss election procedure. They then passed a resolution giving all candidates until 4pm Monday to turn in their nominating petitions so they may revise their statements or resume.

Arnold Contreras '83 chaired the GA meeting and the emergency sessions following his white-ballot election as GA Floor Leader. Under the new GA by-laws approved two weeks ago, the Floor Leader chairs the GA for the twenty days previous to UAP/UAVP elections, and may not run for either office.

Four candidates had not turned in their statements by Wednesday's 4pm deadline. GA Secretary-General and election commissioner Steve Forman '80 contacted each of the candidates and informed them they had half an hour to turn in the missing material. After additional discussion, Hakala was given an extension to go to Harvard Square and retrieve his statement from a printer.

The statement of Hakala and David Lingelbach '83 was received by Forman after eight.

Forman then ruled that their statement and picture would not appear at the voting booth.

Under the new GA by-laws, any new business not appearing on the agenda may only be discussed at an emergency session. The GA must approve by a two-thirds majority to go into emergency session.

Speaking from the floor, Hakal "begged" the GA to go into emergency session. He said that if his picture were not to appear, "it would probably destroy my viability as a UAP candidate."

Forman will be contacting all class office and UAP/UAVP candidates today. All candidates may pick up their statements in the UA office, W20-401.

The GA also passed a resolution opposing the dormitory shift being considered by the administration. The resolution stated that the GA will "fight within reason" any attempt to move dormitory residents without their knowledge or approval.

The GA also voted to have the resolution put on the general election ballot as a referendum.

Contreras urged the Steering Committee members, as members of the various standing committees of the GA, to in turn use their influence and committees to fight the shift however possible. Short-

Vapor cloud causes evacuation

By Stephanie Pollack

The release of poisonous vapors from a train carrying phosphorous trichloride yesterday morning forced the temporary evacuation of over 17,000 people in Somerville and part of Cambridge in an area coming within blocks of the MIT campus.

In addition, precautions were taken on the east side of campus, according to Safety Office Director John Fresina. Windows were closed and air circulation systems were shut down in Eastgate, the Sloan School and other east campus buildings, and residents of East Campus and Senior House were asked to close their windows. Fresina noted that these steps were only precautions, because in the event of trouble "it would have helped if obvious things were done."

The train was struck by a yard

engine in the Somerville railyard on Washington Street at about 9am. The phosphorous trichloride, which forms hydrochloric acid when combined with water, spilled down an embankment. The first evacuation involved people in a 3/4 mile radius around the trainyard, with one of the boundaries being Main Street in Cambridge, near Kendall Square.

According to MIT Vice-President Constantine B. Simonides, MIT officials found out about the vapor cloud at about 11am, and monitored the situation all day. Simonides viewed the cloud from the start as a "potential hazard" and expected it to remain only that because the wind was not blowing toward MIT.

Both Simonides and Dean of the School of Science Robert Alberty agreed that "the most difficult period was right at first." Alberty, who is Chairman of the Council on Health and Safety, felt that "by twelve it was evident that it was no longer a crisis." Monitoring of the situation by both the Safety Office and the

Campus Patrol continued throughout the day, however.

Early in the day it was rumored that MIT might have to be evacuated, but Simonides said that this possibility was quickly ruled out. The Cambridge Police were contacted, and it was decided that evacuation would not be wise in light of the many problems it would cause.

Word of the toxic gas was spread on the MIT Cable System and Snow Hotline. A recorded message put on the Snow Hotline shortly after 11am stated that "it is not expected that the cloud will be a hazard to the campus." All of the academic departments were informed through the Emergency Communications Group, and plans were made to inform dormitory residents, if necessary, through the house managers and Campus Patrol.

The spilled phosphorous trichloride was cleaned up by "covering it with sand and wetting it down, allowing the chemical to vaporize in a controlled manner." At press time Somerville officials were considering allowing the evacuees to return to their homes.



Police barricaded Main from 1st to 6th Street today after a derailed railroad car spilled dangerous phosphorous trichloride. As the resulting cloud of lethal gas drifted in the direction of MIT, people were evacuated up to a point only two blocks from Senior House. (Photo by Matthew B. Alschuler)

Coop to offer alternate gown

By Steven Solnick

The Coop will offer students and faculty an alternative cap and gown in addition to the one traditionally purchased from the Cotrell and Leonard Co., according to Coop General Manager James Argeros.

Cotrell and Leonard is the target of a nationwide boycott being organized by the International Ladies' Garment Workers Union (ILGWU) in support of union workers who have been on strike there since August. The firm also faces charges of unfair labor practices before the National Labor Relations Board (NLRB).

Argeros said caps and gowns manufactured by McMillan-Ward were being offered "in response to the requests of the people we serve. Groups of students, faculty and others have expressed an interest in something other than Cotrell and Leonard

gowns."

The McMillan gowns will cost about 50 cents more than the Cotrell and Leonard product and will need to be ordered by students and faculty by mid-April. The order for Cotrell and Leonard gowns is due near the end of April.

Argeros said "McMillan has assured us that they can handle our needs. Time will tell. The ordering dates are very important to allow McMillan to perform." He added that the Coop called all ten companies on the list of alternate suppliers provided by the ILGWU and "some just manufactured choir gowns."

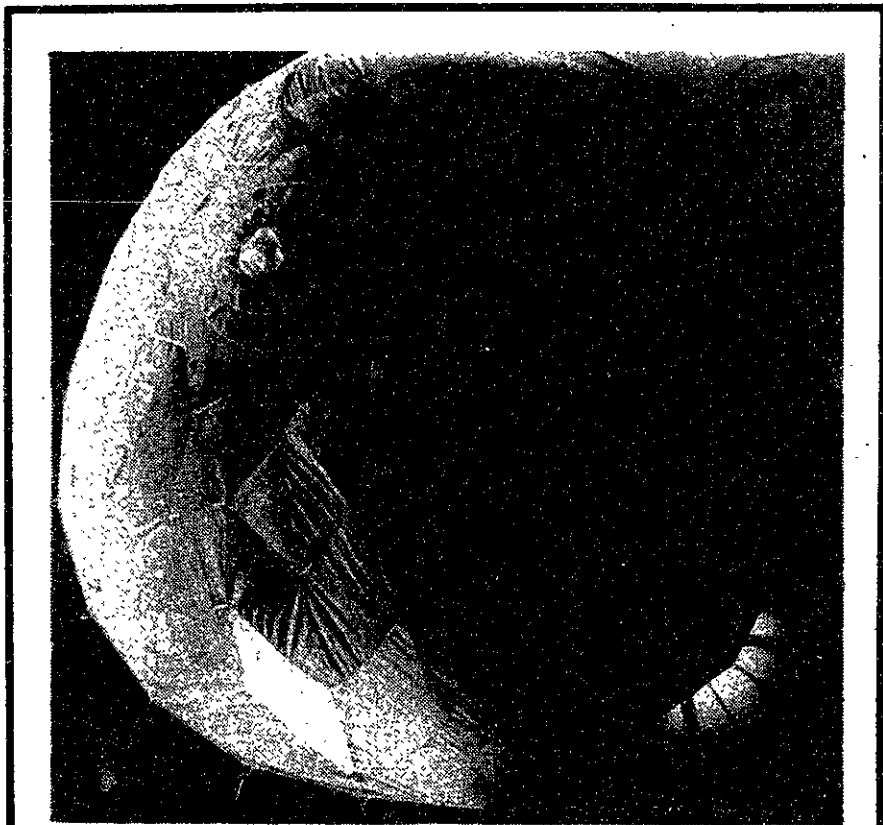
Tony Harden, vice-president and general manager of Cotrell and Leonard, said he would "not like to comment" on the Coop's action. Referring to the case before the NLRB, he declared,

"We categorically deny any and all charges... This is a case of a big union after a small corporation. They have slandered us with lies in the various news media."

The Cotrell and Leonard case comes before the NLRB on May 27.

Michael Winston, ILGWU Educational Director, said the Union was "not satisfied" with the Coop's action. "We feel it is repugnant for any students or faculty to wear a cap and gown manufactured by scab labor," he said.

Winston added that the ILGWU would continue campaigning for a total boycott through student and faculty contacts. He left open the possibility that the ILGWU would organize "informational picket lines" at MIT and Harvard's commencements.



Lobby 7's guest and protector, *The Green Parachute* drops in on MIT students. (Photo by Matthew B. Alschuler)

news roundup

World

Inflation strikes Toronto store — Tamam Yamani, 28, couldn't resist buying a \$200 pair of sandals at a Toronto, Canada, shoe store. She then bought two pairs of bedroom slippers at \$60 each. She finally bought two more pair of sandals, reaching a total bill of \$1043 before her husband, Sheik Ahmed Zaki Yamani, oil minister of Saudi Arabia, said enough.

Nation

Brown bows out — California Governor Jerry Brown has conceded defeat in the presidential election, following his poor showing in the Wisconsin primary this week. He had received a total of one delegate for the entire primary season so far. Said Brown, "I've got something to say and something to do, but most imporetratlly, I've got a lot to learn."

Local

Scientologist request denied — Suffolk County Superior Court Judge Samuel Adams said Wednesday he wants to look at records allegedly taken from the Boston offices of the Church of Scientology by former church employees before he acts on the the church's demand for these documents. The documents, along with several "E-meters" were given to the court in connection with a \$200 million federal suit being filed against the church by a former member.

By Rich Salz

Weather

Cloudy and cool this morning with rain by afternoon. Easterly winds should keep highs in the upper 40's. Rain tonight, heavy at times, with mild lows in the low 40's. Rain ending near noontime Saturday. Highs near 52 will be reached early and the temperature may fall during the afternoon. Cooler Saturday night with lows in the upper 30's. Chance of precipitation near 100 percent today and tonight, decreasing to 30 percent by Saturday evening.

—By James Franklin

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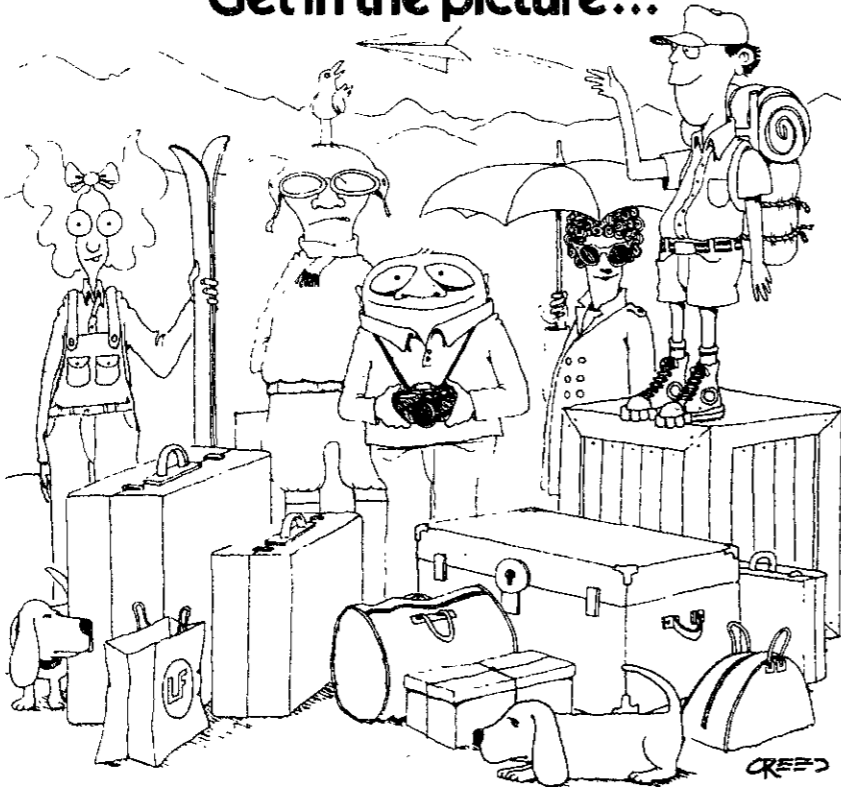
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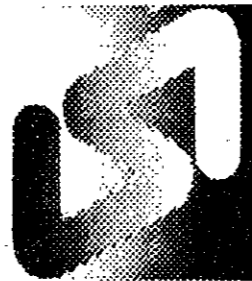
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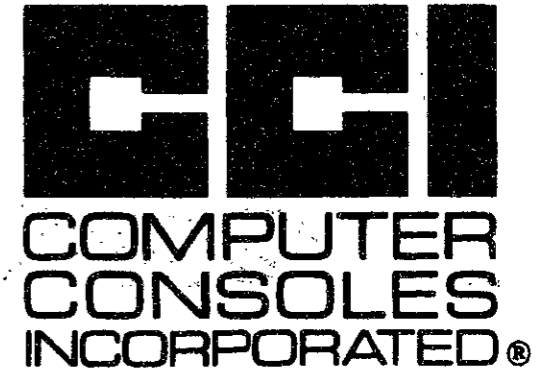
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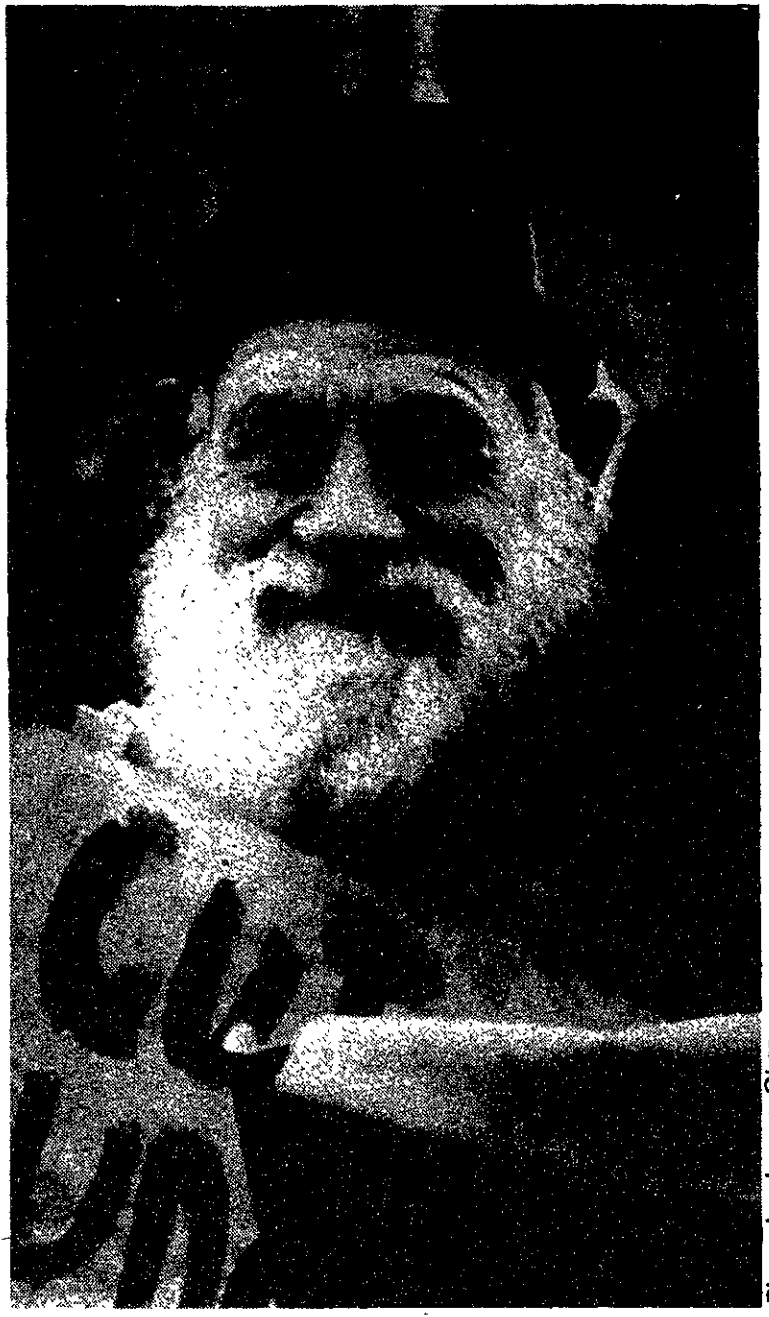


Photo by James Oker

In spite of strong winds, over 30,000 protesters gathered in Washington, DC,

on Saturday, March 22, to protest Jimmy Carter's proposed draft registration. After Gathering in the Ellipse, Protesters were instructed in conduct for the march on the Capitol Building, as well as being coached in various slogans. At the Capitol, Prominent politicians such as former New York Congresswoman Bella Abzug, and people active in past anti-war movements, such as David Dellinger spoke. In addition, the crowd was entertained by the likes of folksinger Peter Yarrow, of Peter Paul & Mary, and the 1980 Broadway cast of "Hair."



Photo by Kevin G. Osborn



Photo by James Oker



Photo by Kevin G. Osborn

opinion

Steve Solnick

History with tunnel vision

If an alien civilization were to visit Earth for one day each year, what sort of view would they get of our world? Conversely, if each of us was to read the newspaper only on his or her birthday, what image would we have of the world around us? I decided to find out.

The following world history is based only on the front pages of the *New York Times* for each March 29 since I was born.

1961: "US and Seven Allies warn Communists to keep their hands off Laos or risk "appropriate retaliatory action."; US Deficit in 1962 put at \$2.8 billion after President Kennedy revises Eisenhower's budget.

1962: An agreement was reached with steel workers which includes no wage increase; "US helps Vietnam in Test of Strategy Against Guerrillas" in Operation Sunrise, the first comprehensive plan to "pacify" South Vietnam.

1963: "FCC Moves to Limit Number of Ads on TV and Radio."

1964: Scores perish as "one of history's mightiest quakes" hits Alaska; UN peacekeeping force arrives in Cyprus (where the peace was kept for no more than a decade); Faisal takes control in Saudi Arabia.

1965: 370 die in Chile quake (a bad two years for earthquakes); Martin Luther King calls for a total boycott of Alabama items; US Ambassador to Vietnam recalled for policy discussions; US destroyers patrol South Vietnamese coast.

1966: France plans to withdraw from NATO(!); 13 KKK men arrested; Consumer Price Index up 0.5 percent; South Vietnamese Premier moves to curb unrest.

1967: 20 Latin American nations announce plan to form Common Market by 1985(!); UN Secretary General Thant calls for ceasefire in Vietnam; Senate reports shortage of bombs in Vietnam.

1968: First US F-111 downed in Vietnam; Violence halts Memphis protest march led by Martin Luther King.

1969: Dwight D. Eisenhower dies at 78; Big 4 (US, USSR, Great Britain, France) move for Mideast Peace and call the present situation "highly dangerous" and "deteriorating".

1970: Vietnamese troops crossed into Cambodia for the second time in the war; US announces its troops may also cross the Cambodian border; Democratic National Chairman predicts the GOP will outspend his party 5-1 in the 1972 elections.

1971: 33 GI's were killed south of Da Nang.

1972: House rejects every attempt to stiffen Clean Water Bill; Pakistan admits it got jets for war against India from Arabs; George Meany tells Price Commission "Phase II failed America."

1973: Secretary of Defense Eliot Richardson maintains President has full authority to continue bombing Cambodia; The last American troops pull out of Vietnam after "more the eight years of intense involvement" — one Western official comments, "The thing is, there's still a war on."; James McCord links John Mitchell to Watergate; Grumman and Fuller win Space Shuttle contracts.

1974: Kissinger fails to negotiate SALT II; Watergate affair said to cast "spectre" over SALT talks.

1975: "Da Nang comes under shellfire, Disintegration of South Vietnamese Army feared, A Billion in (US) Weapons Abandoned"; Investigation reveals murder of King Faisal was carefully planned.

1976: Transit workers authorize April 1 strike (they didn't strike); Poll shows Carter "has translated his primary victory into an extraordinarily broad and diverse base of support"; Rutgers loses in NCAA final after undefeated season.

1977: Death toll hits 574 in collision of 747's at Tenerife; Carter "honors campaign promise" and orders Pentagon to review other-than-honorable discharges from Vietnam war.

1978: Fear more severe inflation rate than Carter Administration predicted: 8.5 percent; Begin sends Sadat letter with appeal to renew contracts; Carter cheered in Caracas.

1979: Arabs split on reaction to Mideast peace treaty; "Radiation is Released in Accident at Nuclear Power Plant in Pennsylvania".

1980: "US plans to Order Punitive Measures Against Iran Soon"; Israel envoy in Cairo "socially ostracized"; MTA obtains writ forbidding NYC transit strike (they struck).

* * * *

How time flies.

The Tech

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feedback

Reactor article inaccurate

To the Editor:

Following the old tradition of poorly researched articles on nuclear energy issues, Agnes Huang of *The Tech* recently wrote a piece on the MIT Nuclear Research Reactor. The opening paragraph stated "more than 80-0,000 students attending 41 colleges, including MIT, run an increased risk of nuclear contamination..." She then stated that the two main risks were the

highly-enriched uranium used and the fact that students come into "close contact with nuclear reactors." The article was a fine example of poor journalism.

It is quite apparent from the column that the author made no attempt to speak to personnel at the Nuclear Reactor Lab. Had she done so, she would have found out several things. For one, all reactor operators have to undergo training and must be

qualified and licensed by passing practical and written examinations. Her implications that research reactors are not always handled by "experts" is not founded.

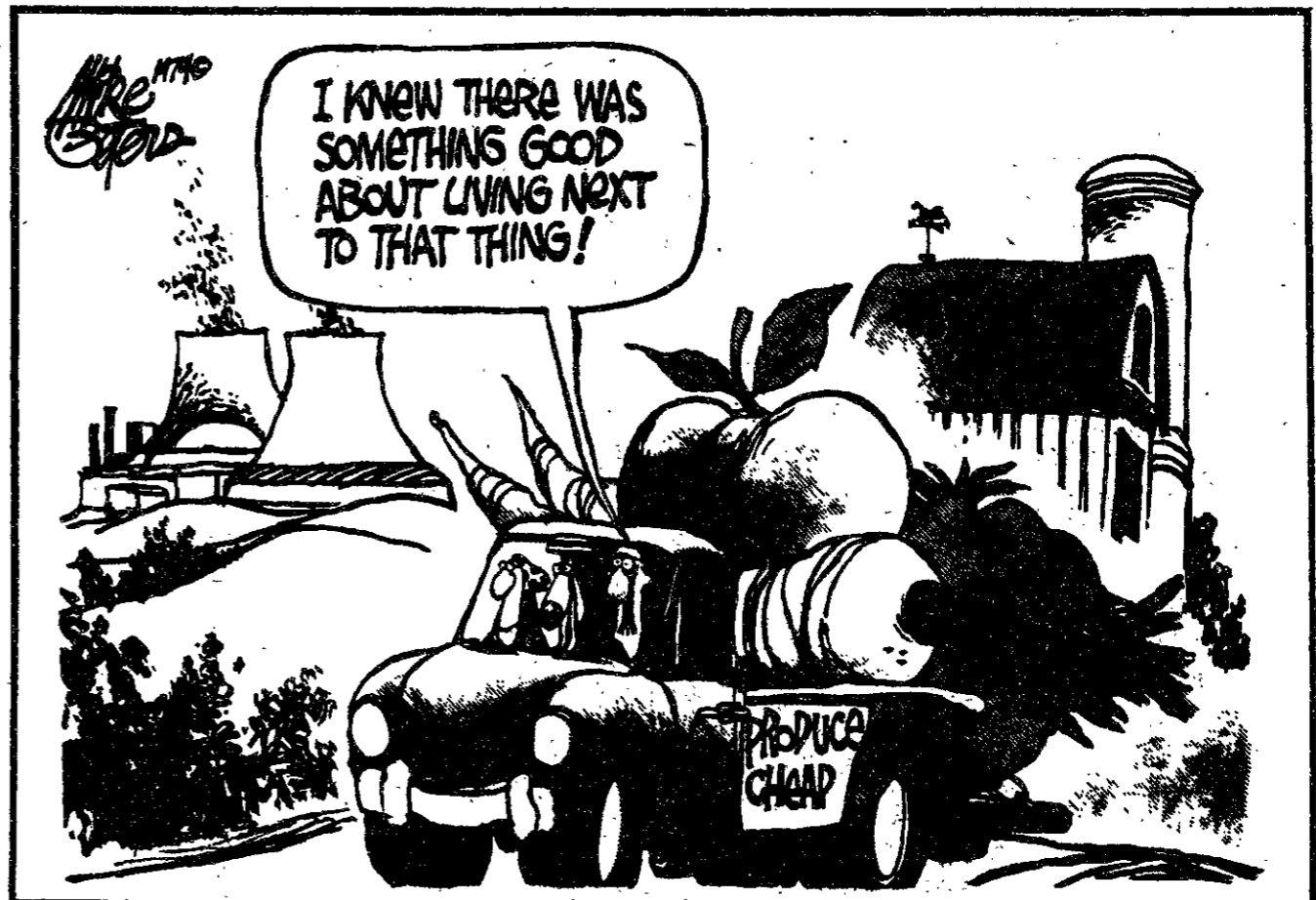
If she had bothered to ask someone at the Lab she would have found that the form and quantity of the enriched uranium makes it inaccessible and inadequate for diversion to other purposes.

Her implications that 800,000 students run higher risks of contamination is likewise ill-founded. Had she bothered to do a little research she would have found that radiation levels inside the Student Center result in higher exposures than standing outside the MIT reactor containment. This is because the MIT reactor is adequately shielded. On the other hand, the Student Center was built during the open-air nuclear weapons testing days and is high in Cs-137 content and other isotopes. In addition, the concrete walls are good sources of naturally occurring radon gas, an alpha particle emitter.

I suspect that working on *The Tech* in the Student Center is far more hazardous from a radiological viewpoint than walking by the MIT research reactor day in and day out. I would recommend to *The Tech* that you do a better research job in the future before printing such articles.

Alan Lazarus
 Peggy Richardson
 UASO

Donald A. Dube G



Opinion

feedback

Off-campus residents ignored

To the Editor:

It was with considerable dismay that I read Steven Solnick's article on the front page of the March 18 *Tech* concerning the 1980-81 student budget. According to the article, the room and portion of the student budget is being increased only 4% relative to the current year, principally because under the new dining

plan the board cost will be "heavily subsidized" by the Institute.

Fine. What about the 47% of us who live off campus?

With the consumer price index currently increasing at an annual rate of 18%, a 4% increase in the room and board allowance doesn't cut it. One might argue that undergraduates who live off

campus do so entirely by choice. However, the MIT dormitory system is capable of accommodating only half of the student body. Furthermore, two distinct classes of undergraduates — transfer and re-admitted students — are so low on the housing priority list as to be virtually excluded from campus housing.

Should the Institute continue to calculate student budgets on the basis of dorm and commons rates, while holding down these rates with increasingly heavy subsidies, then off campus dwellers, who must pay the going prices for rent, utilities, and groceries, would be paying a disproportionate share of the Institute's expenses.

I don't begrudge dorm residents their "luck" — the furor over mandatory commons necessitates the quotes — nor do I mean to impugn the fairness of MIT's financial aid structure, which is the fairest I've ever seen or heard about. With an eye to preserving its inherent equity, I propose a simple solution. A separate student budget, one which reflects the real costs of food, heat, and housing, should be prepared for students residing off campus.

William K. Stewart '81

Improve student protests

To the Editor:

In the past, the MIT administration has appeared to listen to students through joint, student faculty investigation committees. However these committees are generally handpicked by the administration and their decisions are often completely ignored.

The committee to choose the new DSA recommended three candidates. After these candidates were rejected by the administration's upper echelons, the committee was dissolved. Paul Gray and Constantine Simonides picked the new Dean themselves. All but one of the students on the Dining Review were vehemently against forced commons. These opinions were again ignored.

Once again we are beset with an administration bent on achieving its aim despite nearly unanimous opposition from the students. A move of the entire East Campus and Senior House populations to west campus has been proposed.

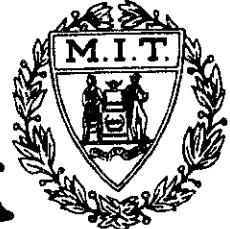
Perhaps the student body's protests would not be ignored if they contained a real threat to the administration. We are not powerless. If our position is not considered thoughtfully we will write to all incoming freshmen discouraging them from matriculating. We will telephone prominent alumni asking them to withhold their donations. We urge the residents of East Campus and Senior House to picket all upcoming alumni fund raising dinners. Maybe some visible protest will force the administration to listen.

Eric Oelkers East Campus President
Eric Hughson East Campus Treasurer

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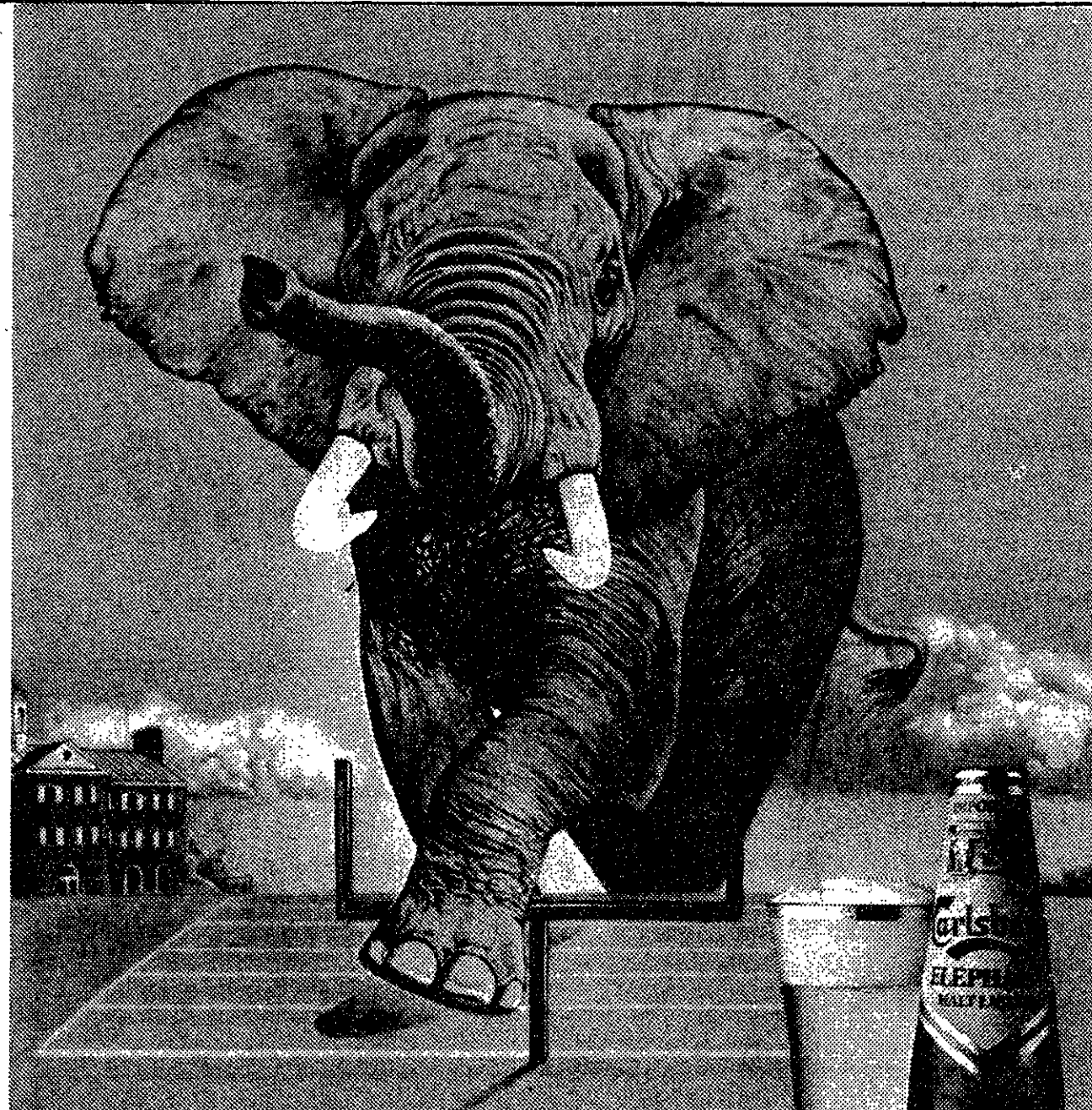
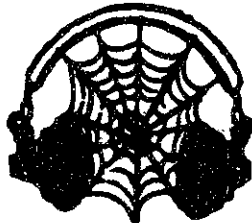
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VODKA PERVERTS VIEWS ON RABBITS



TBM-7 Robert Foxworth stars as a troubled detective assigned to

The Black Marble, by Joseph Wambaugh, directed by Harold Becker. Starring Robert Foxworth and Paula Prentiss. Opens in Boston April 13.

Joseph Wambaugh made his reputation writing sensitive novels about men who are called upon to witness savage cruelties as a normal part of their working lives. *The Black Marble*, adapted from his latest novel, tells the story of one of these men, Sergeant Valnikov (Robert Foxworth), a burnt-out Los Angeles cop of Russian background who drinks heavily and has nightmares about vivisectioned rabbits.

Valnikov is assigned a new partner, Sergeant Natalie Zimmerman (Paula Prentiss), and together they set out to investigate a dog-napping case. At first, the hard-nosed Natalie dismisses Valnikov as a "loony-tunes" drunk, but soon she becomes attracted to him. The unlikely couple go to dinner at a Russian restaurant, get drunk on Russian vodka, and retire to the sensitive Russian's apartment, where he reveals the secret reasons behind his nightmares and heavy drinking. He tells Natalie of his fear of drawing "the black marble," of being a loser who has to spend his life working amidst the cold-blooded savagery of the criminal world. Morning comes and Natalie regains her sobriety and better judgement. The short-lived love affair is over.

The story of the dog-napper (Harry Dean Stanton) is interwoven with the love story in an attempt to provide some comic relief. Valnikov rescues the pooch after a series of extraordinary coincidences, and Natalie gives up a Hawaiian vacation with her boyfriend because she's found she's



investigate the kidnapping of a show

really in love with Valnikov: for once, he hasn't drawn the black marble.

The people who will pay to see this schlock are the ones who are going to draw the black marble. They're going to wait through a surprisingly boring movie for a few laughs, or at least some good acting or an exciting scene or two. Well, they're in for a big let-down.

The Black Marble is billed as a "comic" love story. The opening scene has Foxworth drunk in church and falling down on the church's front steps with his pants down to his ankles, while a careful of well-dressed churchgoers drives up. Yuk, yuk. Other scenes throughout the movie also attempt this exaggerated, burlesque humor; almost all of the jokes fail, leaving the viewer embarrassed for the director, actors, and anyone else unfortunate enough to be involved with the film.

Harold Becker's direction is largely to blame for the lame humor. His direction suffers in other ways. There is a striking lack of consistency from scene to scene. Those involving Stanton are grossly exaggerated in the style of old gangster movies, while those with Foxworth and Prentiss are low-key.

Other parts of the movie are interminably dull: we watch patiently as Foxworth translates first one, then two, and yet three Russian folksongs for Prentiss, and this only minutes after Foxworth's Russian brother tells Prentiss about his Russian heritage. Wambaugh's screenplay and Becker's direction place undue emphasis upon Foxworth's "Russianness". Instead of seeing a rich cultural heritage as a possible explanation for the policeman's sensitivity, we are bored silly.

The Black Marble is an interesting film because of all it tries to do. It tries to show the demoralization of a police detective who investigates dog-nappings and child murders for a living. It tries to make a statement about losing and being a loser. But it is a feeble attempt, full of sophomoric humor and mediocre direction. As NBC's *Laugh-In's* Arte Johnson used to say: "Very interesting... but stupid."


Boring, too.

Jim Sutton



dog, in *The Black Marble*.

JOVEN CUBANO



Rescata las raíces...

El 3er Contingente de la Brigada Antonio Maceo se prepara a partir de Cuba el verano próximo por tres semanas. En él puede participar todo joven cubano que haya salido de Cuba antes de los 18 años (o que sea hijo de padres cubanos) y que no haya participado en actividades contrarrevolucionarias. Debe además apoyar los siguientes tres puntos:

- El levantamiento del bloqueo a Cuba impuesto por los Estados Unidos
- La normalización de relaciones entre Estados Unidos y Cuba
- El cese a las acciones hostiles dirigidas a Cuba por parte de los Estados Unidos y de miembros de las comunidades cubanas en el exterior

El Contingente trabajará una semana en la construcción de viviendas para obreros de la Textilería Arguanabón. Las dos semanas restantes hará un recorrido de la isla, contando con tiempo libre, sobre todo en la Ciudad de La Habana.

Para mayor información envíenos el siguiente cupón:

Brigada Antonio Maceo
PO Box 813/Astor Station
Boston, MA 02123

Nombre _____
Dirección _____
Teléfono _____

IRWIN SIZER AWARD NOMINATIONS SOUGHT

Nominations are being sought for the IRWIN SIZER AWARD, established by the Graduate Student Council in 1975 to honor Irwin Sizer, former Dean of the Graduate School from 1967 to 1975, presently President of the Health Science Fund and Consultant to the Resource Development Office. The Award is presented for "the most significant improvement to MIT education", to encourage innovations and excellence in MIT academic programs. The recipient of this Award, selected by a committee of the Graduate Student Council in closed session, will receive a plaque and a cash award of \$150. Any person or group in the Institute community is eligible, though in any year the Award Committee may decide to give no award.

Nominations may be made by letter, should include references and/or supporting material, and be submitted to the Graduate Student Council Office, Walker Bldg., Room 50-222, no later than April 18, 1980.

Previous Awards have been given to the leaders of the Writing Program (1975), Independent Activities Program (1976), Undergraduate Research Opportunities Program (1977), the Innovation Center at Sloan (1978), and the Office of Minority Education (1979).

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Lutheran-Episcopal
Meditation and Reading of the Passion
12 Noon in MIT chapel

Catholic Veneration of the Cross,
Reading of the Passion and
Communion Service 3 pm MIT Chapel

FROM ASHES TO EASTER

First Celebration of Easter MIT Chapel Holy Saturday Evening 11:30 p.m.
Second Celebration of Easter MIT Chapel Easter Sunday Morning 9 a.m.
Third Celebration of Easter MIT Chapel Easter Sunday Morning 12 noon.
(above are Catholic)



ARTS

ON THE TOWN

MIT

The MIT Shakespeare Ensemble will present **All-American Scenes Night**, April 4 & 5 at 8pm in room 9-150. Admission is free.

The MIT Musical Theater Guild presents **Tech Show 1980**, a science fiction tale entitled *There's No Space Like Home*. Set on an asteroid in the 28th century, this story of love and adventure tries to answer the age-old question, "What do androids do for fun?" Performances are April 11, 12, 13, 18, 19, & 20 at 8pm in the Sala de Puerto Rico. Tickets are \$3.50, \$2.50 with MIT ID. For information, call 253-6294.

The MIT Chamber Players will perform Telemann's *Concerto in D-major for Piccolo, Trumpet, Two Oboes and Continuo*, and other works. April 9, 8pm in room 10-250. Admission is free.

Chapel Concert: Sarah Cunningham, viola da gamba. April 10, MIT Chapel, noon, free.

MOVIES

This week's LSC lineup:

Wizards Fri. at 6, 8:30 and 11 in 26-100.
Wuthering Heights (classic) Fri. at 7:30 in 10-250.

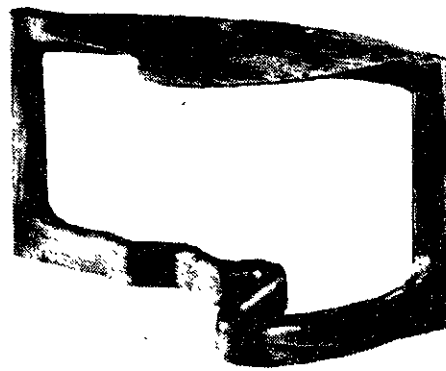
Hooper Sat at 7 and 9:30 in 26-100.

The Man in the Glass Booth Sun. at 6:30 and 9:30 in 26-100.

The MIT Film/Video Section presents *Intimate Video*, works documenting intimacy in the presence of a video camera. April 7, 7pm, first floor of building E21. For information, call 253-1606.

Beginning April 9, **Off the Wall** will commence daily screenings (beginning at 6pm each day) of all available 1980 Oscar-nominated Animated, Live Action and Documentary short films. Balloting will be conducted in the theater to compare the people's choice to that of the Academy. The entire program will play until April 25.

Art
An exhibit of works by **Andrew Tavarelli**, "Recent Pastel Fans," is on display in Hayden Corridor Gallery until May 11.



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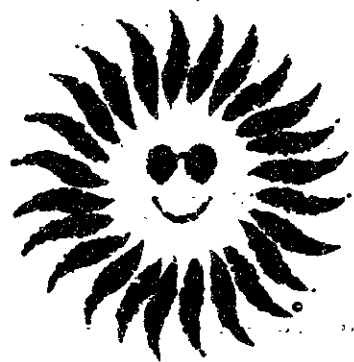
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Boston Technologies, Inc. (BTI) has several analyst positions open for the summer. Graduate students are preferred, but truly outstanding seniors will be considered. Positions are open in the following areas:

- Economics
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- Energy Engineering

BTI is located in Central Square in Cambridge and performs consulting services for both government and industry, with work concentrated in the Departments of Energy and Commerce. Applicants are encouraged to submit a resume and a transcript of undergraduate and graduate work to:

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Boston Technologies, Inc.
675 Massachusetts Avenue
Cambridge, MA 02130



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Orders for cap and gown rentals for graduation exercises June 2, 1980 must be placed by

SATURDAY MAY 3, 1980

for orders from the traditional Tech resource

If you wish to place your order with an alternate resource your deadline is

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The deposit will be refunded when regalia is returned.

Rentals will be ready May 27

All caps and gowns must be returned immediately following exercises and no later than June 4, 1980.

sports

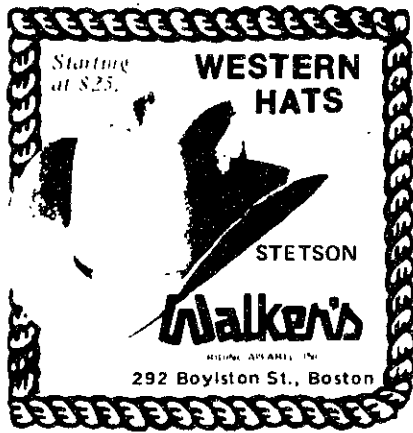
IM basketball standings

A-1		B-3	
Baker Bashi-Bazouk	7-1	Erectors	6-1
Theta Chi A	7-1	Reducing Agents	6-1
Burton A	6-2	Alpha Delta Pi	6-1
Lambda Chi A	5-3	Fiji B	3-3
DU A	4-4	F-Entry Vigilantes	3-3
TDC A	3-5	ESE	2-5
Kappa Sigma	3-5	Hillel	1-6
Chem Eng	1-7	PKT	0-7
Pi Lambda Phi	1-7	B-4	
A-2		PSK Commandos	5-0
Chocolate City	7-0	Baker Chulos	5-2
SAE A	5-2	Post-Glacial Rebounders	4-2
Fiji A	5-2	Heimlich Maneuver	4-2
Betas A	4-3	Washington Senators	4-3
Withered Stump	4-3	Pooners	3-4
Baker Bucky Sims	2-5	SAE B	1-6
AEPi	1-6	The Drunken Dunkers	0-7
Sig Ep	0-7	Mass Pike	B-5
B-1		The Magicians	5-1
Random Errors	6-0	PBE B	4-2
Nuclear Engineering	5-1	Delts	4-3
First East	3-3	Kappa Sigma B	3-4
WHO	3-3	Beast from the East	3-4
Sigma Chi B	3-3	Brads	1-6
Meteorology	1-5	Wilhelmus	0-5
Sig Ep B	0-6	B-6	
B-2		TEP	7-0
E. Snails	6-1	Death Merchants	5-2
Coalition	6-1	North-C	5-2
Hydros	4-2	Phi Sigma Kappa	4-3
Sloan Grease	4-3	Bio Rhythms	3-4
Deke B	2-4	Johnson Brothers	3-4
Zete Devils	2-5	Meteorology II	1-6
Burton Third	2-5	Lofton's Llamas	0-7
Vega	1-6		

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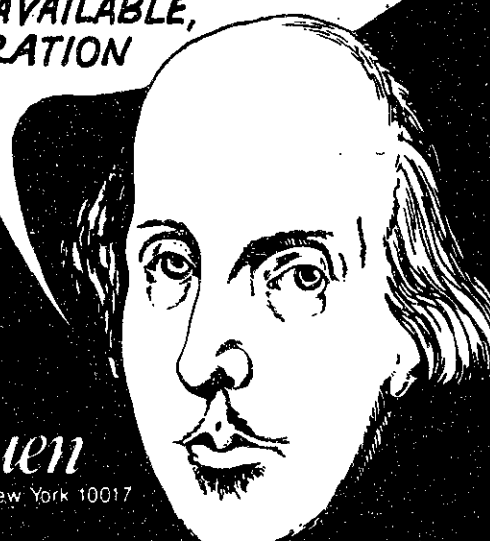
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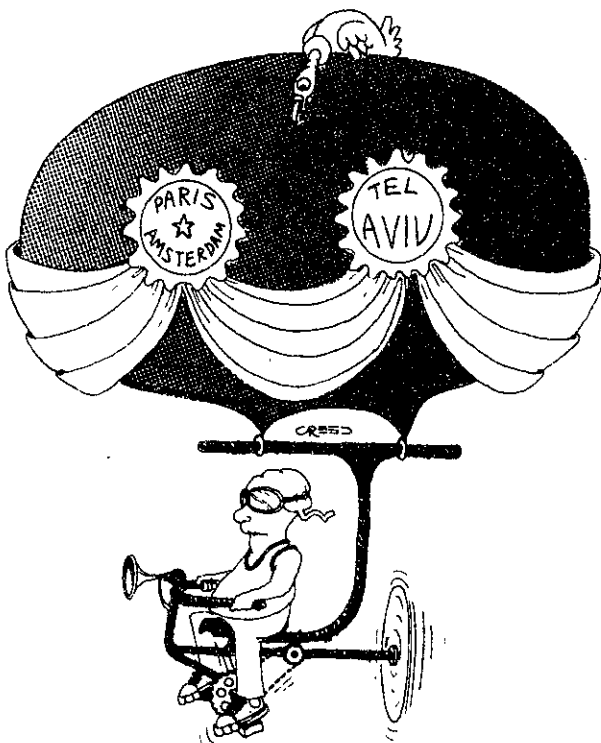
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PROGRAMS IN AERONAUTICS AND ASTRONAUTICS

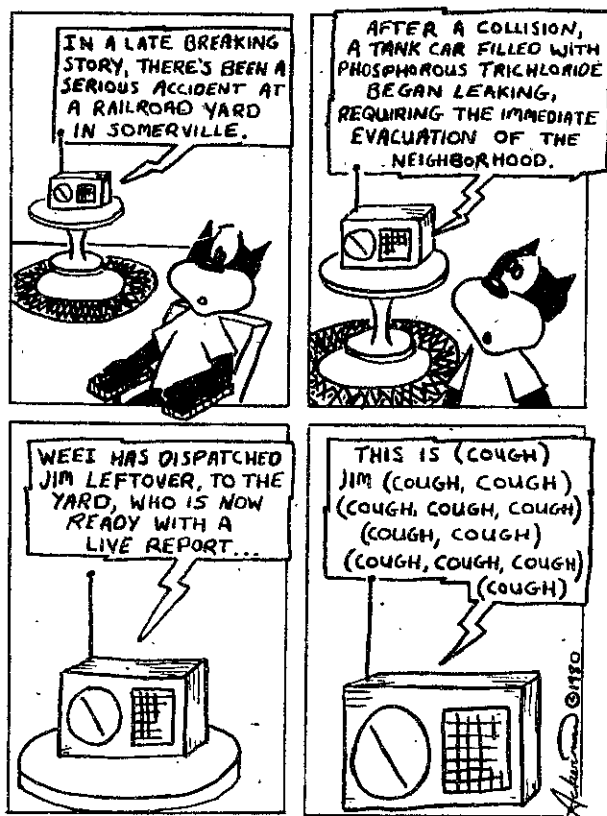
- Energy Conversion and Propulsion
- Fluid Mechanics
- Instrumentation, Guidance and Control
- Structures, Materials and Aeroelasticity
- Systems: Aeronautical Systems
- Flight Transportation
- Space Systems
- Biomedical Engineering
- AVIONICS PROGRAM

FACILITIES AND RESEARCH IN PROGRESS

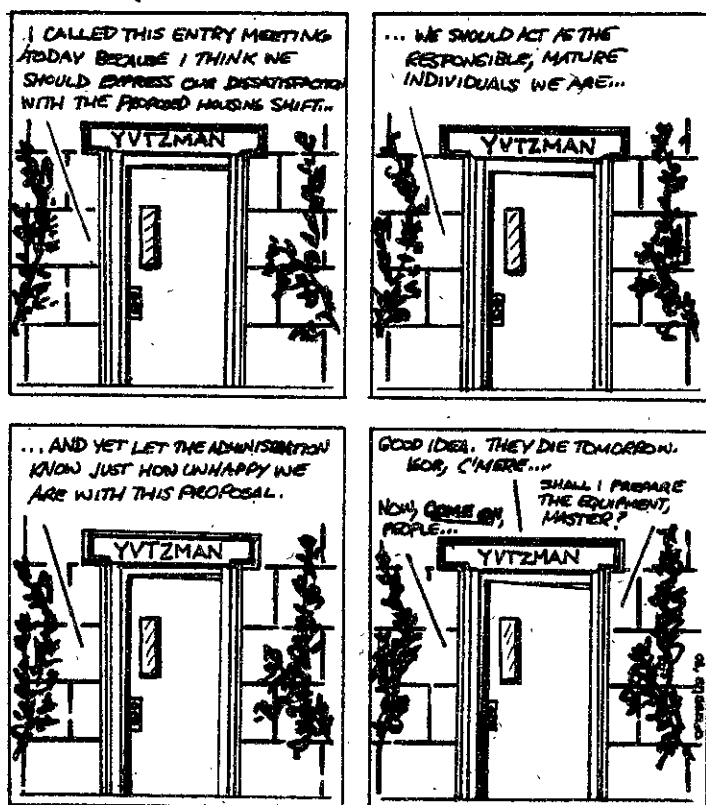
- Acoustic Wind Tunnel
- Aerophysics Wind Tunnels: Supersonic, Hypersonic; Magnetic Balance
- Aircraft: Dynamics Simulator, Glider
- Composite Materials and Structures: Fabrication and Testing
- Experimental Projects Laboratory
- Flight Transportation: Boeing 707 Cockpit; Airline Computer Scheduling
- Fluid Mechanics Lab: Nucleation Studies; Molecular Beam; Solar Cells
- Laser Lab: Optical Gyroscope, Laser Applications
- Man-Vehicle Lab: Spacelab-I Experiment on Motion Sickness; Sled Demonstration; Visually-Induced Sensations
- Propulsion Lab: Research Compressor; Magneto-hydrodynamics; 3-D Computational Fluid Dynamics
- Space Systems Lab: Space Construction; Space Industrialization; Solar Power Satellites
- Wright Brothers Wind Tunnel: Boundary Layer Studies; Wind Effects on Buildings

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Sick Puppies
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STOP THE MX MISSILE

The danger of nuclear war is again increasing.

SALT II has been submerged and new nuclear weapons systems are being actively promoted. Negotiations for the control of nuclear arms have been suspended, both between the superpowers and among their allies in Europe. Plans proceed to place nuclear missiles in Europe threatening Moscow, and in the USSR threatening Europe. Out of the White House and Pentagon come proposals for the use of nuclear weapons in the exigencies of distant combat. In these times of symbolic confrontation, the deployment by the United States of the giant new MX Missile System would be an unmitigated disaster.

The MX decreases, rather than increases, America's security:

1. **Both the U.S. and the USSR are presently capable of mutual annihilation.** The Pentagon claims the mobile MX Missile System is needed to replace our current "vulnerable" Minuteman II land-based missiles. The Minuteman II carries only a quarter of the total U.S. nuclear strategic strength. The bulk of our explosive power is carried by our untargetable submarines, almost two-thirds of which are safely hidden somewhere under the ocean at any time, and by our bombers, about half of which are on constant high alert. Thus, even if we imagine the Minuteman force completely eliminated, the U.S. would still have *four thousand* nuclear weapons — each larger than that which wrecked Hiroshima — ready to retaliate against the Soviet Union. This is far more than enough to destroy 75% of Russia's industry and kill 50% of her citizens. On the other hand, 70% of the Soviet's own nuclear retaliatory force is in fixed land-based systems, which will be fully vulnerable in the face of so powerful a potential first-strike force as the MX Missile.

True, even with all its land-based missiles destroyed, the Soviet Union could still lay waste the U.S. with its fewer submarine-based missiles at sea. However, the high accuracy of the MX Missile begins to threaten the Soviet missile force with a plausible American first-strike capability. The Soviet response will likely be a policy of launch-on-warning. This strategy on either side is fearful, since a mere warning, false or real, might launch the entire arsenal of threatened ICBM's. But it will appear a logical necessity against the first-strike threat posed by the MX. A world in which both sides deploy first strike forces will be seriously unstable in times of crisis, since each side would perceive some advantage in attacking first. The outcome would be an unmatched mutual catastrophe for the people of both nations and of the world.

2. **The MX Missile System would not deter an attack as claimed.** Quite the opposite: Unfettered by the stalled SALT II agreement, the Soviets can load 20 to 40 warheads on each of their large missiles, enough to destroy the 4600 shelters of the present MX scheme by using only a few hundred of their two thousand missiles.

Because of its vulnerability to attack by sufficiently large numbers of Soviet missiles, deployment of the MX Missile System would induce the buildup of Soviet missile forces beyond the present treaty limits. Even if SALT II were to be ratified, the threat posed by the MX would put strong pressures on the Soviets not to renew it when it would expire in 1985. With or without SALT, the MX will just about guarantee, in case of a nuclear war, a twenty-fold increase in nuclear damage in the U.S. and in

world wide fallout, since the MX system invites thousands of Soviet nuclear warheads. Their detonation on the ground would yield radioactive fallout over millions of square miles downwind (eastward) from Utah and Nevada. States all the way to the East Coast will be covered with lethal amounts of radioactive fallout. The grain producing Great Plains of the United States will be so contaminated as to be unusable for decades, even if there were any survivors to till them.

3. **Even if never used, the MX missile is a major environmental and economic hazard.** The Air Force plans to place in the fragile desert a project comparable to several hundred vast airport runway systems with thousands of miles of railroad track going nowhere, transporting missiles. The disruptive boom-town effects on life and work, the demands for big machinery and even on water, cement, and fuel, the permanent damage to a thin and unresilient ecology are obvious heavy prices for a useless and dangerous system. The Air Force calls it the biggest construction project in history; surely it is the biggest folly.

The Pentagon says that *MX will cost from 40 to 60 billion dollars*; Senator Proxmire predicts \$100 billion. The Navy has won a new strategic program, the Trident submarine, while the Air Force lost the B1 bomber. Can the Air Force enthusiasm for the MX be a move to maintain their piece of the strategic missions and the budget pie? Given our real defense needs: our need for heavy civil investment to revitalize our industrial capacity so that we may successfully compete with Japan and Germany; our need for new energy production and conservation technology, and for development of public transportation; our need for economically productive research and development: given all this, it is absurd to spend enormous sums of taxpayers' money for a weapons system which so endangers U.S. security.

The defense we really need

We must recognize the inescapable fact that we cannot solve conflicts among nations by firing or even brandishing nuclear weapons. We certainly cannot guarantee the U.S. gasoline supply by nuclear warfare. Until such time as these weapons can be eliminated by mutual agreement, both sides need to realize that

First use of nuclear weapons will lead to a nuclear holocaust.

The MX, as an effective first-strike weapon, will seriously increase the risk of nuclear war. The present danger stems from attempts by American as well as by Russian militarists to introduce new nuclear delivery systems capable of upsetting the precarious deterrent balance.

In this climate of crisis, let us not yield to the excited campaign to legitimize the use of nuclear weapons. As a first step, *reject the MX while it is still in its billion-dollar cradle*. We have weapons in plenty. What we need are sensible long-range economic policies and prudent, steady diplomacy. We must ratify the SALT II treaty, complete the Comprehensive Test Ban Treaty, initiate negotiations to ban anti-satellite weapons, and begin to reduce nuclear arsenals.

Write, call, visit and petition the President, members of Congress, your governor, and your state legislators; send them copies of this message. Reproduce it in your community and church newspapers. Form your own **Stop the MX** group.

Initiated by J. King, E. Bell, B. Feld, P. Morrison, S. Paradise, K. Tsipis, J. Dennis, D. Mellinger '83 and the Disarmament Study Group and the Faculty Disarmament Coalition.

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For further information, contact either:

Disarmament Study Group
Munroe 512
3 Ames St.
Cambridge, MA 02139

or

Faculty Disarmament Coalition
312 Memorial Drive
Cambridge, MA 02139

Upcoming activities:

- Tuesday, April 15 - DSG meeting, 5:30pm 7-102
- Friday, April 25 - Teach-In on the Arms Race
- Saturday, April 26 - March on Washington

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Theta Chi	3-3	LCA	3-2
TS Cobb	3-3	NADS	3-2
Main Betas	3-4	PSK	2-3
Son of Beast	2-4	Aero and Astro	1-5
The Whipmasters	2-4	ATO	0-5
Delt Dawg Shooters	0-7		
C-2		C-8	
Virjins C	7-0	Club Latino	6-0
Ryter's Riders	6-1	The Buttlickers	5-1
Intestinal Flu	4-3	CSC	4-2
KAOS	3-3	TDC	3-3
Kappa Sigma	2-5	KSA 1	2-4
Conner 3	2-5	La Casa	1-5
Vard House	2-5	Spartak	0-6
Die Tapferine Mause	1-5		
C-3		C-9	
Abusers	7-0	XMI Long Shots	6-0
The Soil Dynamics	6-1	Marvin Zindlers	4-2
DJ's Boys	5-2	Tappa Kegga Bru	3-2
Burton II	4-3	Sig Ep	3-3
Mac D	2-4	Nu Delta	3-3
PBE C	2-4	Burton 5 Smokers	1-4
Speds	1-6	KSA 2	1-5
The Space Invaders	0-7		
C-4		D-1	
Random Shots	5-0	Virjins	5-0
Sigma Chi	4-2	Ample Turnovers	5-0
F-Entry Vigilantes	4-2	Bruce	3-3
Chi Phi	3-2	First East	2-3
TDC Clones	2-3	Coble's Creepers	2-4
AEPI	1-5	Bay of Pigs	1-4
Conner 5	0-5	CBG's	1-5
C-5		D-2	
Fizzle Chem	7-0	Mangled Baby Ducks	6-0
TDC Outhouse Orgy	6-1	Franco-Prussian Warriors	3-3
Compact Objects	4-3	EMOQ	3-3
Annexed Betas	3-3	XMI Dribblers	3-3
Conner 4 Stars	3-3	Tetazoo and Friends	2-4
Burton Third	1-5	WILG	0-6
Theta Xi	1-5		
Deke C	1-6		
C-6		D-3	
Desmond C	6-0	Burton 4 Players	5-1
ZBT	4-1	F-Entry Vigilantes	4-1
Stiff Boys	3-2	Conner Force	3-3
Mace	3-3	Theta Chi D	2-3
English House	1-4	Desmond House	1-4
Phi Kappa Sigma	1-4	Basket Cases	1-4
Burton One	0-6		

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An organizational meeting will be held Wednesday, April 9th, 8:00 p.m. in the Amdur Room, 6-231. Refreshments will be served. All are encouraged to attend. Call Pat Houghton at 494-8739 for more information.



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Sports

IM hockey standings

A League			
Metallurgy	5-0	Virjins	1-3
Puck-Ups	2-3	Baker's Dozen	0-5
Montreal Express	2-3		
EPS Coprolites	2-3	C-3 League	
SAE/LCA	2-3	Kappa Sigma	5-0
		Sig Ep	3-2
		Chi Phi	2-2-1
		ZBT	2-3
		Theta Chi	1-3-1
		LCA	1-4
C-1 League			
Locals	4-1		
Betas	3-1		
Phi Kappa Sigma	3-2		
Bratislava Bruins	3-2		
Hat Tricks	1-3-1		
Second West	0-4-1		
C-2 League			
Puckaneers	4-0		
Nuclear Eng.	3-2		
Delt Tripods	2-2		

Lacrosse defeats Tufts in NE opener

By Rich Auchus

Returning from a 2-2 Florida road trip, the MIT lacrosse team defeated Tufts 13-9 in its New England season opener in the rain at Steinbrenner Stadium. The victory marked the first victory for MIT lacrosse over Tufts since 1972.

Tufts scored the first goal of the afternoon, but midfielder Phil Macneil '80 countered with two goals in the first period and MIT never trailed again. In all, Macneil exploded for a total of eight goals and one assist. Bobby Clarke '81, playing in his first regular season game, cranked in two goals, and Manny Oliveria '81 and Paul Gault '81 added one goal apiece. Tom Garigan '81 led Tech in assists with three, Rob Tait '80 had two, and Hank Tremaine '80 and Earl Bartley '83 tallied one apiece. Goalie Adam Sapirstein '81, a transfer student from North Carolina, registered 15 saves.

Coach Walter Alessi was extremely pleased with the opening victory, after losing the top four scorers to graduation last year. Alessi says that the team's excel-

lent conditioning, speed, and tight defense will make up for lack of experience. The team runs fifty 50-yard sprints a day, and Alessi believes that "no team we play will be in better shape." The coach also indicated that he expects continued tough defense, led by captain Brian Abbanat, consistent goaltending from Sapirstein, and plenty of hustle

from the team in general. In addition, he claims that he has seen no MIT lacrosse player with a better offensive game than Macneil.

Alessi noted, however, that the team "would have to play better" to beat Amherst this weekend. This game will be a real test of the team's ability to capitalize on its strengths against stiff competition.

Metallurgy takes hockey title; Mont. Express 2nd

By Bob Host

Metallurgy won the A-league intramural hockey championship with a resounding 12-1 victory over Montreal Express last month and will represent MIT in an eight-school "extramural" tournament to be held at Babson College in the next two weeks.

Metallurgy, whose top scorer, Brad Hunter G, led all A-leaguers with 10 goals, defeated EPS Coprolites 8-4 in the semifinals, while Montreal Express topped Puck-Ups 5-1 to advance to the final game. The win for Metallurgy in the finals completed an

undefeated season.

In C-league competition (there was no B-league this year), Kappa Sigma defeated the Betas 3-1 for the title. In the semifinals, Kappa Sigma slammed the Puckaneers 8-2, while the Betas overcame Burton Third by the same score. In order to make the semifinals, however, the Betas first had to defeat the Locals, a team in their division that they did not play in the regular season. This playoff game was won by the Betas 5-3 after the Locals had jumped out to an early 3-2 lead.

Swimmers 18th in Division III

By Rich Auchus

The MIT men's swimming team placed 18th in the NCAA Division III National Championships at Washington and Jefferson University, tallying 27 points, the team's best showing in national competition since 1971.

John Schmitz '83 capped a brilliant season by making all-American in three events. Schmitz placed fifth in the 200-yard individual medley with a new MIT record time of 1:57.46 and eighth in the 400-yard individual medley in 4:16.90. Dave Erickson '82 also earned all-American status in three events. Erickson set a new MIT record in the 100-yd freestyle, placing ninth in 47.57; he finished eleventh in the 200-yd freestyle in 1:47.05. Schmitz and Erickson teamed up with Mark Huntzinger '81 and Bill Dawson

'82 to place tenth in the 800-yd freestyle relay. This all-American relay team set an MIT record of 7:09.36 in trials.

In addition, the 400-yd medley relay team of captain John Dieken '80, Chris Moss '80, Mark LaRow '82, and Erickson set an MIT record time of 3:39.06 and placed 14th. Josh Lindsey '80 finished 19th in one-meter diving and LaRow finished 26th in the 100-yd butterfly.

The tournament marked the conclusion of the most successful season in recent years for MIT swimming. Despite the graduation of such fine swimmers as Dieken and Moss, the many fine undergraduates and the superb coaching of John Benedick should help MIT swimming continue its strong performance in the future.

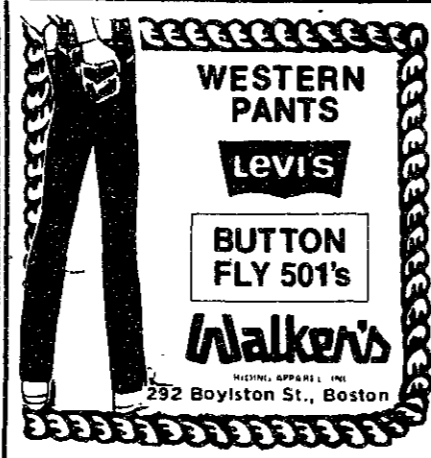
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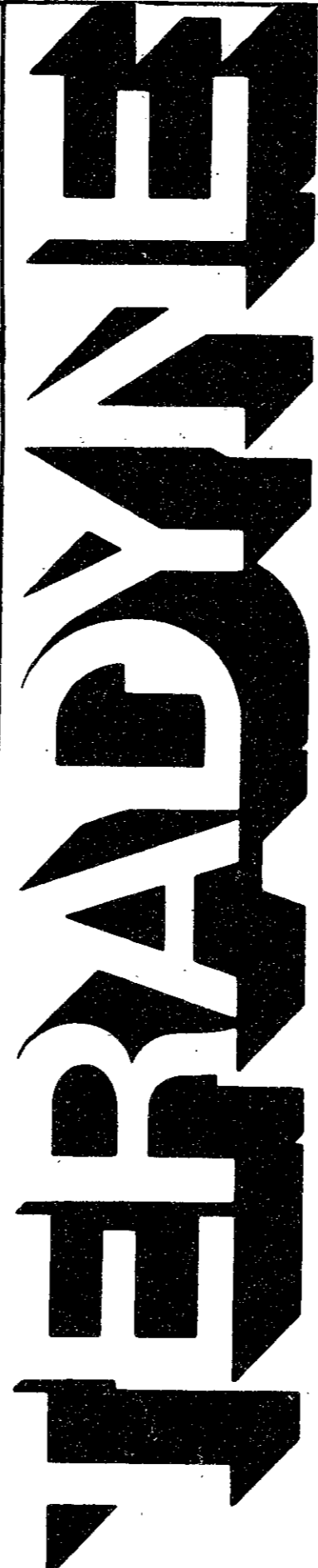


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The Official Class Jeweler will be in the lobby of building 10 on February 12, 13, 14 from 10am till 3pm and on Friday, February 15, 10am till 2pm. A deposit of \$30.00 is required. Make check payable to Dieges and Clust. Trade in on High School or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

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AWARDS NOMINATIONS

Stewart Awards

The William L. Stewart Awards are given to students in recognition of a single, outstanding contribution to a particular activity or event.

Send nominations to the Awards Committee, Room W20-345.

Compton Awards

The Karl Taylor Compton Awards are the highest awards given to students by the Institute community and reflect the belief that real excellence and devotion to the welfare of the MIT community in any area, with emphasis on lasting or sustained contributions to the MIT community as a whole, should be recognized.

Murphy Award

The James N. Murphy Award is given to an Institute employee whose spirit and loyalty exemplify inspired and dedicated service, especially with regard to students.

DEADLINE DATE: APRIL 11