

The Marine Corps celebrated its 206th birthday on Tuesday with a party in the Mezzanine Lounge. (Photo by Gerard Weatherby)

Teach-in speakers urge nuclear disarmament

By Andrew Washburn

The Union of Concerned Scientists held a convocation Wednesday in Room 26-100 as part of a nationwide effort to focus attention on the threat of nuclear war.

The capacity crowd heard from prominent advocates of disarmament who, during two sessions, focused on the effects of nuclear war and who urged actions aimed at averting such a conflict. The afternoon session was chaired by MIT Institute Professor Emeritus Victor F. Weisskopf, and Francis E. Low, MIT Provost, presided over the evening gathering.

The Union of Concerned Scientists sponsored Veteran's Day teach-ins at 151 campuses in 37

states. The Cambridge-based group claimed that each convocation drew substantial audiences. The MIT event was co-sponsored by the MIT Disarmament Study Group, the MIT Faculty Disarmament Group, and the MIT Chaplaincy.

The five-hour meeting focused on education, as many speakers cited the need to inform American citizens about the consequences of a nuclear exchange. Weisskopf, MIT Professor of Physics Bernard T. Feld, who is also editor in chief of *The Bulletin of Atomic Scientists*, and former Director of the US Arms Control and Disarmament Agency Paul Warnke each pointed to a need to convince national decision-makers of the existence of substantial incentives to place a freeze on the production of weapons.

Concern with a perceived sense of complacency regarding nuclear war was voiced throughout the convocation. Weisskopf responded to recent statements by Reagan Administration officials, saying, "We must not assume that nuclear war can be limited, survived, or won." Low expressed a similar concern, remarking that most people are "unwilling to face the terrible danger" which, if left unresolved, "will bring about the world's end." Quoting a statement made by former Soviet Premier Nikita Khrushchev 20 years

ago, MIT Professor of Nuclear Science David Rose '50 described the aftermath of a nuclear confrontation as "a world where the living would envy the dead."

The assumption that both the US and the USSR want to avoid nuclear conflict became a central theme of the teach-in. Several speakers, including Warnke and Rose, emphasized this mutual feeling as a clear signal that disarmament is within the realm of political possibility. Rose cited the root cause of the arms race as fear and lack of a sense of security by many countries, including the US and the USSR. Professor Feld reiterated his continuing support for a "no first use" agreement, noting the "overriding mutual demand for containment."

The evening convocation was disrupted momentarily as Provost Low attempted to introduce Paul Warnke. A young man jumped to the speaker's platform, handing Warnke a paper which he claimed was a subpoena for Warnke. Seizing the microphone, he claimed membership in the Mass Proletarian War Crimes Tribunal of US Imperialism and began to read the so-called subpoena while several others handed copies to the audience. Low took away the microphone and persuaded the protestor to leave as the crowd shouted for the protestor to allow Warnke to speak. The subpoena

(Please turn to page 3)

Professors cite harms of WI

By Tony Zamparutti

In anticipation of a discussion on the Whitehead Institute at the next faculty meeting on November 18, thirty-three professors have signed a letter expressing deep concerns about the proposed relationship between MIT and Whitehead.

The debate over the Whitehead Institute is "the biggest thing that's concerned MIT in my time here... in 28 years," said John Buchanan, Biology Professor, a co-author of the letter.

Although MIT delegates will be in the minority on the Whitehead Institute's board of directors,

Whitehead will greatly influence MIT's biology research. The Whitehead management would initiate searches for joint faculty members "primarily on the basis of their potential value to the research programs of that organization," according to the letter. "We believe that such a close tie [with Whitehead] would be contrary to the best interests and academic integrity of MIT."

"We're not against the Whitehead Institute by any means," said Buchanan, explaining that the group only opposes the current conditions of the agreement between Whitehead

and MIT. "We're anxious to have the Whitehead Institute here, but not under conditions that would threaten the academic freedom and traditions of MIT," Buchanan declared.

President Paul Gray '54 and Provost Francis Low declared that "the worries [about Whitehead] are based on worst-case scenarios that are not likely to materialize," in a letter sent to all faculty members. The letter included the proposed legal arrangement between MIT and the Whitehead Institute.

Buchanan discounted Gray's (Please turn to page 2)

Researcher is Spacelab finalist

By Burton Kaliski

Dr. Bryon K. Lichtenberg, a research technical staff member of the Center for Space Research at MIT, is a finalist for a research position aboard Spacelab I, according to Professor Laurence R. Young, director of the Man-Vehicle Laboratory in the MIT Department of Aeronautics and Astronautics.

Young is one of seventeen investigators selected by NASA for the Spacelab mission. Associate Professor Charles M. Oman and Edward A. Boughan of the Center for Space Research are also participating in the project.

According to Young, MIT and Canada's Defense and Civil Institute of Environmental Medicine (DCIEM) will conduct several experiments aboard Spacelab, which is scheduled to be carried into orbit by the Space Shuttle in 1983.

Lichtenberg said that there will be "several investigations on the effects of weightlessness on the inner ear." These include angular and linear accelerations of the head and the related head movements; leg reflexes in a hop-and-drop experiment which will test responses to falling; eye movements in response to acceleration; and awareness of position and motion in an environment without gravity.

Young explained that the otolith organ, the linear accelerometer of the inner ear, ceases to function in weightlessness, and the nervous system has to become adjusted to meaningless signals, which may lead to space motion sickness.

After a few days in space, he continued, the nervous system ignores the otolith and the astronaut depends on his vision to orient himself.

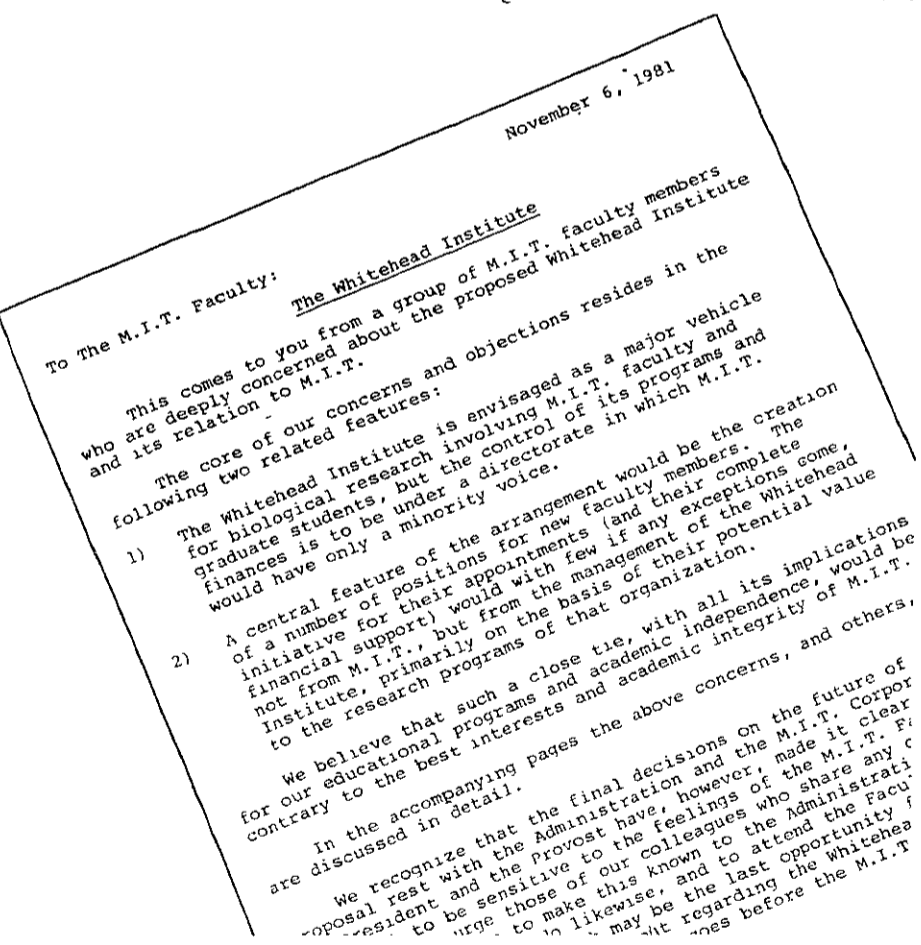
One way to test this effect, Young described, is the rotating dome experiment. "A large dome rotates parallel to your line of sight," simulating the feeling that you are turning, since there is no gravity as a point of reference.

Lichtenberg and one other American are finalists for one of two payload specialist positions on Spacelab I. The other payload specialist will represent the European half of the project. There will also be two pilots and two mission specialists aboard the spacecraft.

Lichtenberg began training three years ago and still has two years of work with flight equipment to complete. When planning for the project began in 1977, several potential researchers were nominated for the mission. After a two-hour interview, six were chosen for further training. "We spent a week in Houston and two months later they interviewed us again," this time about specific parts of the experiments, Lichtenberg continued. He and Michael Lampton of Berkeley were named finalists, and started a five-year training program, with one of them to eventually become a member of Spacelab I crew. The European Space Agency is the primary source of funding for the Spacelab project.



Working on MIT Professor Laurence Young's Spacelab experiment are (top to bottom) Young, Robert Renshaw, and Dr. Byron K. Lichtenberg (Photo courtesy NASA)



inside

MIT's Director of Career Planning and Placement predicts 1982 will be a slow year for MIT graduates, although the national outlook, as seen by the College Placement Council, is optimistic. **Page 2**

Over one hundred scientists summoned to Washington by National Academy of Sciences President Frank Ross last month agreed that an increase in research investment would further President Reagan's goals. **Page 5**

The water polo team's third place finish in the New England Championships killed the squad's hopes for a trip to the Coastals. **Page 8**

Turning in their "best performance in recent history," the cross country team placed seventh at the New England Championships. **Page 8**

Weatherall sees fall

By Sam Cable

Although most college graduates, especially those with degrees in engineering and other technical fields, can expect an increase in employment opportunities this year, according to a report released in October by the College Placement Council, Robert K. Weatherall, Director of the Career Planning and Placement Office at MIT, said he feels this year will be slow for MIT graduates.

Fears of a possible recession are causing firms to make "slightly fewer offers" this year, he said.

WI faulted

(Continued from page 1)

and Low's allegation, saying "any time you draw up a legal contract you draw it up for a worst case scenario." He noted that the group of dissenting professors had contacted a lawyer about the planned agreement with the Whitehead Institute.

The Executive Board of the MIT Corporation reviewed the Whitehead proposal during its meeting on November 6 and "is unanimously prepared to proceed with recommendation to the Corporation" if the faculty approves the plan, according to the letter by Gray and Low.

The highly critical letter declared that the new faculty members, who will hold joint positions at MIT and Whitehead, "would not be selected with respect to educational needs, but rather in response to research directions desired by" Whitehead.

Noting that arrangements similar to Whitehead could develop in the future, the letter states "MIT should resolve that such links with satellite organizations should occur only when the responsibility of all parts of MIT remains firmly in its hands."

He observed, however, that MIT students have been "sought after hungrily" for many years and even during the recession year of 1975, MIT students "didn't feel the pinch too badly."

Weatherall indicated that he was optimistic about the employment outlook. "I'm bullish, except for a small anxiety about this year," he said.

According to the College Placement Council, sixty percent of the companies surveyed were predicting improved economic conditions for the first half of 1982.

Weatherall said that most graduates with scientific degrees will go to graduate school. He noted that oil companies are especially interested in students with degrees in geology and geophysics.

He indicated that most students do not seem to realize many companies' desires for graduate degrees in engineering. "If anything, there has been a drop in the number of graduate degrees," he said.

Employers plan to hire twelve percent more graduates with bachelor's degrees in engineering next year, as well as twenty-three percent more graduates with degrees in the sciences, and five percent more with degrees in liberal arts.

FOREIGN STUDENTS

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news roundup

Nation

Shuttle to return early — The space shuttle must return no later than Saturday afternoon because of a problem in one of the three fuel cells. NASA had planned a five day mission for the shuttle, which launched at 10:10am Thursday. Mission planners believe that hydrogen and oxygen gas are pooling in the malfunctioning fuel cell and might explode.

Stockman will not resign — "The President asked me to stay on the team," said David Stockman after a meeting yesterday with Reagan during which Stockman offered his resignation. Stockman said he strongly believed in the Administration's policies and that his comments in the *Atlantic Monthly* were taken out of context. According to the article, Stockman said that "we didn't think it all the way through" and that "we didn't add up all the numbers" when forming the Reagan Administration's economic policies.

First Trident submarine launched yesterday — The first Trident ballistic-missile submarine was launched yesterday morning in Groton, Connecticut. The submarine, commissioned the USS Ohio, is the largest submarine ever built by the US Navy. The boat is 560 feet long, 42 feet wide and will carry 24 nuclear missiles.

Local

Baby boom for unwed mothers — In Boston last year, one of every three babies were born to unwed mothers. Most experts have attributed the increase in premarital births to the fact that women are now waiting longer before marrying.

Bottle bill override to hit Senate — Proponents of the bottle bill in Massachusetts won a major victory Tuesday when the House of Representatives voted to override Governor Edward King's veto of the bottle bill. The bill is now being heavily lobbied in the Senate.

Jerri-Lynn Scofield, Tony Zamparutti, and Ken Snow

Weather

Lots of sunshine in store for New England during this upcoming autumn weekend. Today winds will be light easterly with sunshine and highs near 50. Tonight will be clear and not so cold with lows in the upper 30's. Saturday will duplicate today with highs again near 50, and Sunday will be a bit warmer with continued sunny skies and highs in the lower 50's.

James Franklin

Speakers urge disarmament

(Continued from page 1)

charged, in part, that Warnke was the "articulate and well-kept prostitute for [the] Wall Street masters."

Throughout the convocation, the speakers described a wide range of actions they claimed would effect a halt to the arms race. Feld urged a campaign to secure a new national administration in the 1984 election. Warnke urged serious arms talks conducted in good faith and advocated adherence to the principles of the unratified SALT II Agreement, a treaty he helped negotiate and toward which he characterized the Reagan Administration's attitude as "schizoid." Warnke also rebuked Reagan for a "soft-headed approach to arms control," which was failing to remove the incentives for a first strike.

Asserting the root cause of any arms buildup as national insecurity, Rose proposed a plan for uniform international availability of individual opportunity to be achieved through a large scale redistribution of wealth, claiming that this action would remove desperation and internal unrest in many of the less developed countries. This removal would increase the sense of personal security, he claimed, and thereby end the "external unrest and development of client states" that are a source of arms proliferation.

Also speaking were Institute Professor and Nobel Laureate Paul A. Samuelson, Joseph McHugh of Business Alert to Nuclear War, and the Massachusetts State Senator George Bachrach. Samuelson contended

that "economic prosperity does not require and does not benefit from military expenditures" and suggested the economy would not suffer from a shift of tax dollars from defense to other government activities such as public works. McHugh emphasized the high cost of the "war industry" and cited the damage inflicted on business by inflation resulting from "deficits due to increased military spending and tax cuts."

Some of the convocation's other speakers recommended actions that could be conducted on an individual level. Representing the High Technology Professionals for Peace, Warren Davis described high technology employment as "a trap" into which eager graduates fall, only to discover that their work was being used for military ends. These jobs, he asserted, can be discovered through a dissemination of information to those considering high technology employment. Davis warned students especially of jobs requiring security clearances, contending that secrecy stunts normal intellectual and academic growth which would otherwise allow professionals to exercise influence on the work in which they are involved.

Cambridge City Councilor and State Representative Sandra Graham urged people to take "an activist stand," citing the success of the Cambridge City Council in its efforts to educate Cambridge residents about the effects of nuclear conflict. Jerome Grosman, President of the Council for a Livable World, called for "mass political actions" which would seize control of public

policy issues back from "intimidating technocrats."

Dr. Henry Abraham, Harvard Medical School Professor and Secretary of Physicians for Social Responsibility, opened the afternoon session with a slide presentation portraying the medical consequences of a nuclear explosion. Using pictures and survivors' accounts from Hiroshima and Nagasaki, Abraham pointed to the destruction, physical and social, that would occur in a nuclear exchange today.

The speakers answered questions from a sympathetic audience after each talk. In response to one observation that MIT depends on substantial revenue from Department of Defense contracts, Feld asserted that "MIT must tighten its belt" and work to secure "an administration that favors university research."

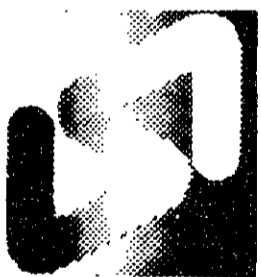
notes

The MIT Musical Theatre Guild will be holding a meeting for anyone interested in coordinating music, acting, or dance workshops during IAP on Monday, November 16 at 7pm in Room 453 of the Student Center. Any questions, call 253-6294.

* * * *

A **semiformal dance** will be held in the MIT Sala de Puerto Rico on Saturday, November 14, 8-12 midnight, featuring the Sherman Marcus Band. Refreshments served, \$5 per person. Sponsored by the MIT Ballroom Dance Club.

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Ahmed Farah, Oxfam's Africa project director will speak on Oxfam's effort to fight famine in Somalia in Room 4-159 at 7:30pm

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INTERVIEWING on CAMPUS

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opinion

Stephanie Pollack

The Project

Friday, 9pm

At this hour, most normal people are eating, drinking, dancing, seeing a movie, breaking the law, or otherwise enjoying themselves. Most MIT students are tooling.

I am staring at a black screen filled with green letters, secretly hoping for the machine to crash. Not being familiar with the system, I would have to abandon the project.

No such luck. As the night wears on, the words on the screen miraculously arrange themselves into comprehensible sentences and paragraphs. People in various states of intoxication wander by and chat briefly. The 24-Hour Coffeehouse proves its usefulness several times.

Saturday, 5am

The first batch of editing is finished, and the sun has risen. Massive amounts of work remain to be completed, but the effort requires extensive reading and I will fall asleep if I have to deal with black words on white paper. The time has come to take a nap.

The Institute is beautiful early in the morning. The sub-freezing temperatures of the previous evening have moderated considerably, making my down jacket uncomfortably bulky and warm. The opportunity to pause and admire the silence and the dew glistening on Kresge Oval is almost adequate compensation for the fatigue.

Saturday, 11am

Four hours of sleep and one shower later, I am back in my prison. After rushing to avoid delaying the two people who are to join in the work today, I am more than mildly upset to find the office empty. The two show up early in the afternoon, just as I am leaving to get lunch.

Research always takes longer than it should. After two hours of work in the morning and four in the afternoon, the investigation is less than half complete. No one in their right mind would spend two evenings of one weekend on any project, however. This time, the break consists of dinner at a Central Square Chinese restaurant and a visit to Fidler on the Roof.

Sunday, 1am

While the research is interesting, working alone is difficult and staying awake is almost impossible. Luckily, the mice keep me company. At this point I can recognize each of the three that live in the office.

Eight hours later the work due at 10am is far from complete. An hour-long nap has proven useless and my motivation has completely evaporated. The mice will have to live without me for a few hours.

Sunday, 1pm

The time has come to crack down— this project must be finished by seven o'clock Tuesday morning and I have big plans to get some sleep and perhaps go to class before then. By midnight I have reluctantly conceded that both activities will have to wait until later in the week.

Monday, 9am

Fitting in three hours of sleep required skipping a shower. I might have chosen to allocate my time differently had I known that the next cleansing would be Wednesday morning.

As the day wore on, the pace of work slowed, our minds and bodies protesting the abusive treatment we have been giving them. People came and went, the sun set and rose, junk food appeared and was consumed. Work has now expanded past the available time, and even the optimist in the group concedes that the deadline has been missed.

Tuesday, noon

Half of the work that was due five hours earlier has just been completed and we break for lunch. The large cup of Andy's chili is the first thing resembling real food I have eaten since Saturday night. My stomach does not appreciate the offering.

Five hours more and the entire project is finished. Four days in isolation have ruined my appearance, destroyed my stomach, and worn me out entirely. The saga's ending, however, is happy one: the celebration includes five shots of Jack Daniels and twelve hours of sleep.



feedback

Protest isn't meet the press

To the Editor:

This letter is a response to Kevin Smith's column on the Bush protest, which to me embodied the elitist, conceited, self-righteous attitude which permeates this campus. How dare he call the protestors "childish losers" just because the few he talked with lacked the technical background to win a debate on the spur of the moment? Does this mean they have no right to their opinions? If the answer is yes, as Mr. Smith seems to believe, then the only people that should have a say in policymaking are those with expertise in the specific policy area. Never mind that the so-called "ignorant" people are the ones that must live with the results, taking the risks and suffering the consequences of the "expert's" mistakes.

Every movement has its slogans and catch-phrases. Their use does not imply ignorance of the real issues. The protestor who used the phrase "great cover-up" and failed to name specific mutation incidents did not prove her ignorance; during the crowded, energetic protest she probably did not want to take the time to have

a detailed, philosophical discussion with some conservative nerd who could just as easily read her position in the flyer— which he admitted she handed him. (Incidentally, Mr. Smith is probably unaware of the undeniable link between the nuclear power and weapons industries in both their development and fuel/waste cycles; this would explain why he called the woman "uninformed" and "foolish to make those comparisons"). After all, the rally was an emotionally charged display of public discontent, not a "meet the press" session.

I would like to inform Mr. Smith that there are many "left-

wingers" (myself included) who consider themselves "concerned, informed and rational." Mr. Smith attacked the protest by ridiculing a few of the participants. All he achieved was to provide a self-indulgent forum for his own smug, narrow outlook. I realize it was on the "opinion" page, so all I can say is that his type of attitude is destructive to a pluralistic society. Mr. Smith must be informed that views differing from his own are not any less "legitimate" than his, and non-technically oriented people are not necessarily ignorant of the facts of an issue.

Mary A. Munson '82

APO neutral on Queen

To the Editor:

Stephanie Pollack's column in last Friday's issue of *The Tech* implied that Alpha Phi Omega was opposed to the Homecoming Queen contest. In fact, APO tried to remain scrupulously neutral in the controversy which surrounded the contest and the voting procedure, despite the fact that many of our members had strong personal feelings on the

matter. It is disturbing that at least one member of the MIT community didn't see it that way; hopefully this will set the record straight.

Roger H. Goun '82
UMOC Chairman

Due to an early copy deadline Letters to the Editor for the November 17 issue must be submitted to *The Tech* by tomorrow.

The Tech

Brian J. Glass '82 — Chairman
Stephanie L. Pollack '82 — Editor-in-Chief
Jon von Zelowitz '82 — Managing Editor
Richard W. Epstein '83 — Business Manager
Volume 101, Number 49
Friday, November 13, 1981

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Summit addresses cuts in research funding

By Tom Lored

Almost one hundred scientists from universities, national laboratories and industry gathered in Washington DC on October 26 and 27 for a budget summit. The summit was called by Frank Press, president of the National Academy of Sciences and MIT Professor, in response to President Reagan's September announcement of additional 12 percent across-the-board reductions in spending for various federal agencies, including many that sponsor scientific research.

Press called the summit for the purpose of "sorting fact from rumor," according to *Science* magazine. Several representatives from Reagan's Administration were present to discuss the proposed cuts, including White House Science Advisor George A. Keyworth and Fred Knedouri of the Office of Management and Budget.

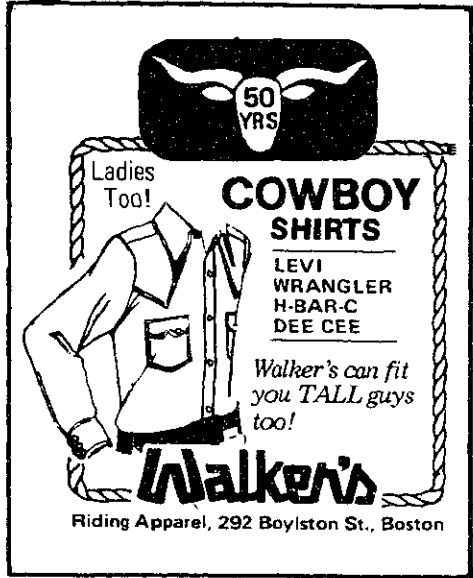
Reagan's representatives told summit participants that there will be less money for research this year and in years to come until the economy begins to improve. Knedouri summarized the Administration's position on the proposed cuts, explaining "The Administration has a radically different attitude toward the budget. We've established [dollar] targets and will not lie passively by and just watch them erode."

Knedouri tried to assure scientists that the "science cuts are not mindless," adding that they are necessary because Congress did not pass all of Reagan's original cuts.

Press emphasized the desire that budget cuts be "rational" and "informed." Some scientists present argued for an advisory role for science, while others felt that scientists should participate directly in the budget process. Several participants did not want to accept the cuts since science

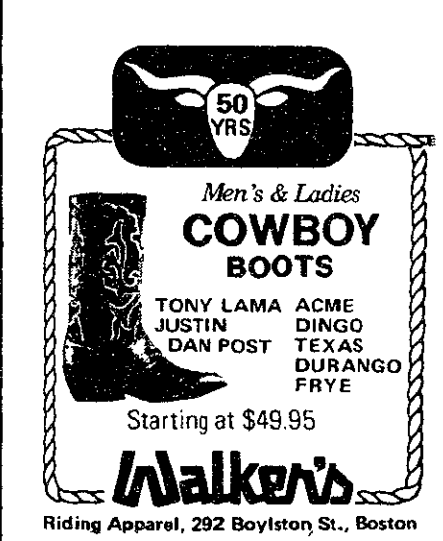
can contribute to the goals of national security and a strong economy. Many scientists expressed fears that these cuts would discourage young people from starting careers in research.

The scientists' positions were officially presented to the Administration and to Congress in a communique on October 27. The summit concluded that "Because of the important relationships between research, technology and the goals of the Administration's economic program — a sound economy and strong national security — it could be argued that investments in research should be increased, not decreased, in the decade ahead."



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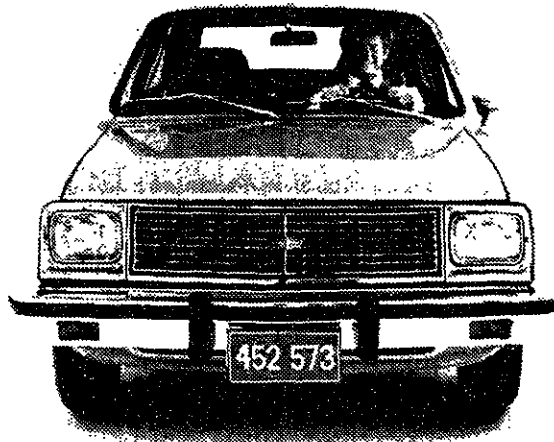
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Fiddler under the Dome

ARTS

Fiddler on the Roof, presented by the MIT Musical Theater Guild.

Fiddler on the Roof, this year's Musical Theatre Guild fall production, is weaker than past fall MTG productions, but is still worth seeing. It is characterized by generally good acting, but the technical side of the performance is not handled with MTG's usual finesse.

A fiddler on the roof may indeed be an unusual sight in most parts of the world, but not in Anatevka, a small Jewish community whose long-standing traditions are being broken down by the social changes sweeping pre-revolutionary Russia. The story is that of Tevye, the milkman, and his five daughters. The traditional background of the family breaks down more and more as the three oldest daughters take husbands. The first refuses her father's choice of husband and asks to marry another. The second asks only for his blessing, and the third leaves behind both family and faith to marry an outsider.

Joedy Leister, playing the role of Tevye, starts off slowly, then improves as the play progresses. At first he appears as a fairly weak character, with an unconvincing accent. In the early scenes, Leister seems a bit unsure of himself and the part is carried through mainly by the humor in the lines. Not until the second act do Tevye's emotions project enough to make him the powerfully moving character the role was meant to portray. His character finally fills out in the scene where he sings "Do You Love Me" with his wife, and for the first time is able to project his emotions at a level which hits more powerfully than his dry, witty comments on life. This change in character had a large effect on the continuity of the production. Breaking it into two parts, the first act brought out the comical portions, and the second act revealed the tragic nature of the plot. This



Photo by Gerard Weatherby

play should indeed get more serious as it progresses, but the change should be more gradual, rather than chiefly occurring over the intermission.

Tevye's daughters are all played. Tzeitel, the oldest, played by Janet Grzywacz G., is an emotionally powerful character. The way she handles Motel, her intended husband, in both words and gestures shows clearly who will eventually be the boss in that household. She handles herself well, portraying a set of emotions ranging from defiance to joy. The second daughter, Hodel (Melinda Blair French) is charming in the way she moves about the stage. During her duet with Perchik (Christopher Esolen), she glides across the floor with the grace of a ballerina. She is the best singer in the company, as demonstrated in the song "Far From the Home I Love" which she sings at a railway station before leaving to

join her husband in Siberia. Chava, played by Lisa Ann MacClusky, is convincing in her display of deep feeling when pleading with her father for acceptance after marrying out of the faith.

Motel, played by David Smith '85, is an excellent wimp. It is easy to empathize with his anxieties as he works up the courage to ask Tevye for Tzeitel's hand.

Linda Shaffir '82, plays the perfect hen-picking mother — when Golda is on the stage, all hands are busy by her orders. Tevye has almost as much trouble dealing with her as he does with his own emotions; she is the only person on the stage who can dominate him for any length of time. Yente, the matchmaker, seems as though she could go on talking forever. She is portrayed by Bonnie Derman '84, as quintessential gossip, constantly spreading all manner of trivia throughout the town.

Guy Consolmagno '84, plays a somewhat feeble rabbi who seems ready to agree with anyone about almost anything. This interpretation is fairly humorous, but it is unconvincing when he makes the decision for the villagers to pack up their things and move at the end of the play. The ghost of Fruham Sarah, played by Natalie Lorenz '84, appears as more of a humorous character than a scary one in Tevye's dream. Towering ten feet high, she comes out onto the stage with all of the grace possible for an actress riding on top of an actor's shoulders. As for the fiddler, he plays beautifully, but someone should loan him an old, faded fiddle, because the one he uses is the brightest thing on the stage visually as well as acoustically.

The set was one of the worst I have ever seen at a MTG production. One cloth building front sagged when it was down, and hung obtrusively in the air when it was up. All of the rooms in which scenes took place opened into the center of town, so that no matter where the scene took place, some sense of the town's center was fused into it.

On the whole, the show is well staged. With the exception of the dream scene the production was well blocked. The dance scenes involving the chorus, however, still needed a little polish as of last Saturday's performance. They were characterized by sporadic clumsiness, and at least one dancer was out of step.

In general, the performance was good, but not up to the standards usually maintained by the Musical Theater Guild.

Although a good distance from being perfect, *Fiddler on the Roof* is an enjoyable timeout from the daily grind. The final performances will be given tonight and tomorrow evening at Kresge at 8pm. So *nu*, what are you waiting for... go out and buy tickets!

Tom Grycewicz

Napoleon, Original production by Abel Gance, reconstructed by Kevin Brownlow and Francis Ford Coppola. Showing tonight through Sunday at the Metropolitan Center.

Can you imagine if someone found a previously unknown Shakespeare play in a dusty attic? This is the only analogy I can make to the discovery of the 1927 silent film, *Napoleon vu par gance* (Napoleon seen by Gance). Abel Gance made this film in France just before the era of sound, when no one wanted to see silents anymore. Now we know better.

The film was painstakingly reconstructed by Kevin Brownlow, who found pieces of it in archives all over the world. Francis Ford Coppola co-opted it, and commissioned his father to write the original score. Carmine Coppola has been touring America and is currently in Boston with an orchestra until Saturday.

Napoleon is unique. Many movies have been labelled 'epic,' but this film truly is. Its power is astonishing, overwhelming. It just won't fit on a small screen.

We open the film with a battle — Napoleon and his schoolmates in a snowball fight. The little boy who plays Napoleon is incredibly intense. Even then, people knew that he was going places. The scene is full of foreshadowing — nothing that happens in Napoleon's life is accident; he is fated to become the leader of his country.

The theme of fate runs through the film, giving it a mythical dimension. When Napoleon is stranded at sea, run out of his native Corsica, he is picked up by his brothers' boat, *Le Hasard* (Chance or Fate). He runs into Josephine many times, and when they finally meet we flash back through their previous encounters. Everything is according to a grand design.

The most stunning achievements of this film are technical: not the gizmo effects of a George Lucas but with a loftier purpose in mind. There are things in this film I've

never seen anywhere else, and this film is from 1927!

In one scene, we are at a ball. The camera swirls through the action with gaiety and abandon. It's stunning, dramatic and exhilarating. Over and over again, Gance finds visual metaphors like this.

In another dramatic scene, Napoleon is told of his destiny to conquer at the Convention, the center of the Revolution. The martyred ghosts of the cause tell him that the revolution will die if it is confined

to France and he must spread it throughout Europe. The images of the leaders flicker and fade hauntingly, chillingly accompanied by organ music.

There are so many grand moments like this, I could go on and on. However, I'll hold myself back and just mention the most extraordinary. Throughout the film, we are viewing one small screen. All of a sudden, the curtain unfolds and we have three screens! The vista is panoramic, and the audience lets out an audible gasp.

It's as if Gance's vision was too large for the small pictures of his day. The explosion of possibilities offered by the three adjacent images boggles the mind. He shows us three sides of the same event; or a closeup of Napoleon, surrounded by the clouds, looking like a god; or, most breathtakingly, a scene of pitched battle, the three screens tinted and one red, one white, one blue (the colors of the French flag) as the orchestra plays the *Marseillaise*. The audience bursts into cheers and it is over.

At this point, someone came to the stage and announced that Abel Gance had died at the age of 92 that evening. Gance had fortunately been aware of the film's rediscovery and its success in America. A vindication of his incredible vision, the greatness of *Napoleon* is an inspiration and a challenge to modern filmmakers, and to all of us.

Howard Oster



ARTS VIVA NAPOLEON ARTS

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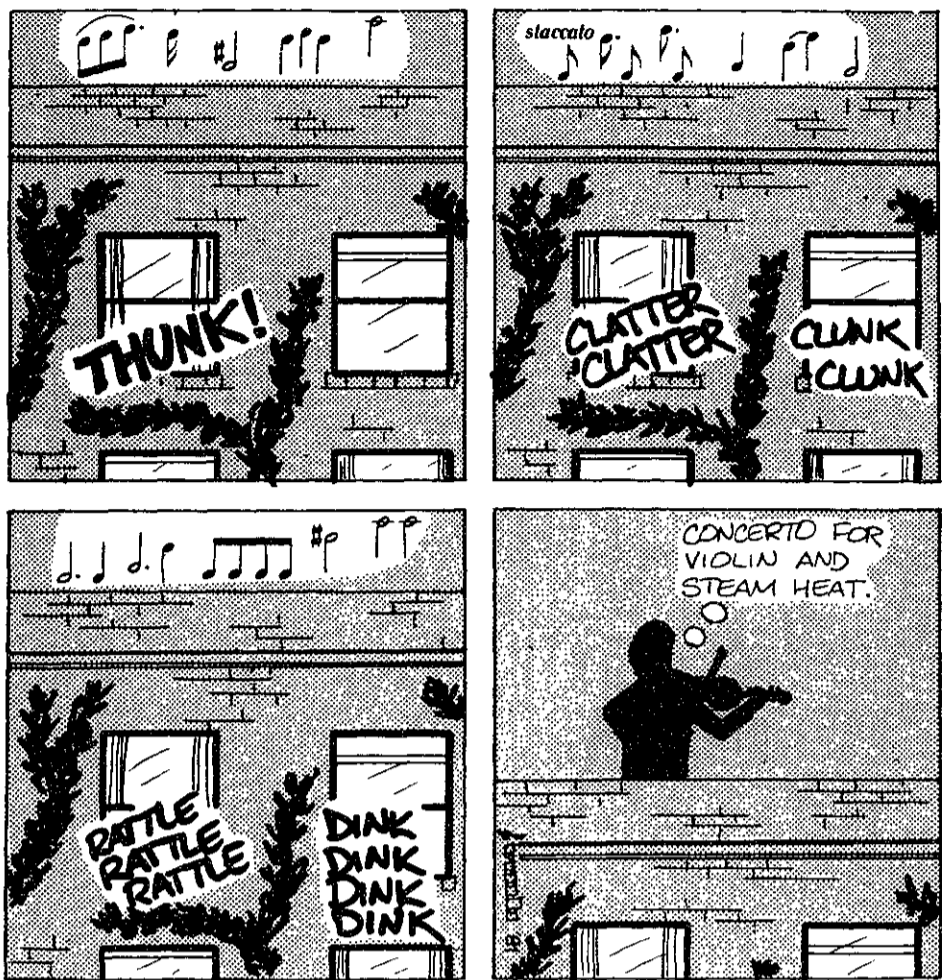
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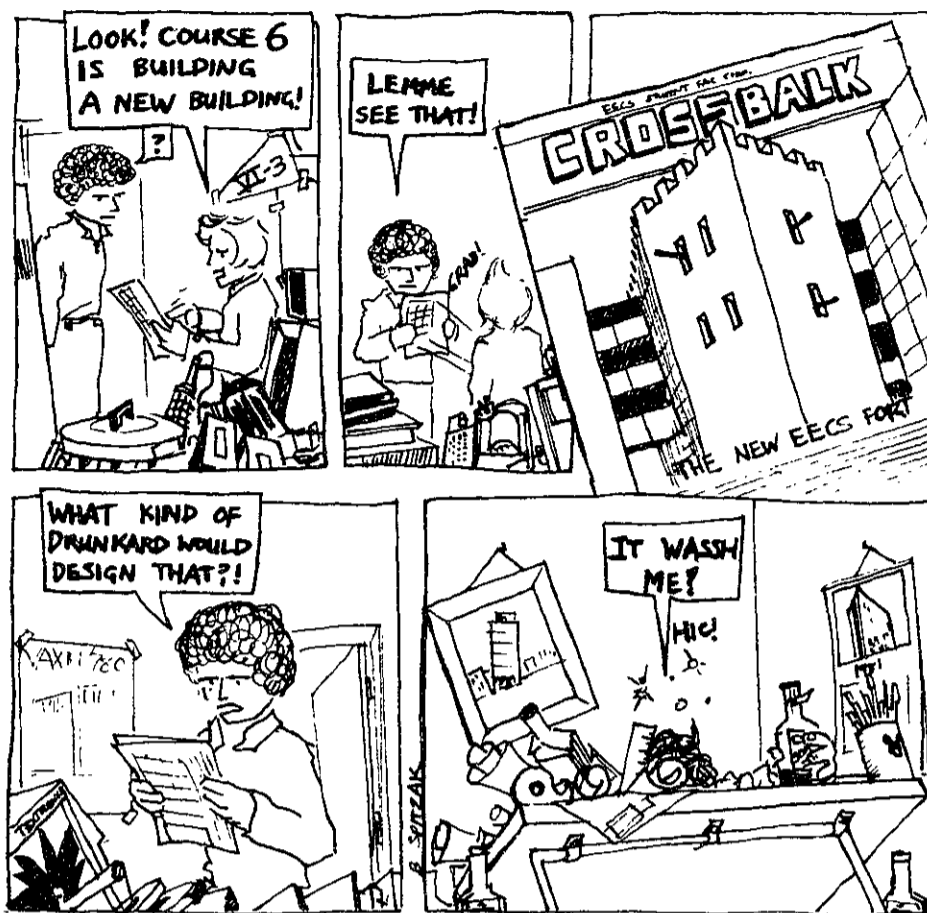
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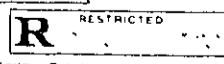
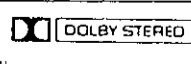
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sports

Cross country 7th, Neves 14th in NE

By Rich Auchus

Last Saturday, the MIT cross-country team placed seventh in the 1981 New England Championships at Franklin Park. Thirty-six schools sent representatives to the tournament, and 28 fielded complete teams.

Paul Neves '83 paced Tech with a time of 24:25. Neves placed fourteenth overall and earned a spot on the All-New England Team. Bob Walmsley '84 completed the five-mile course in

24:45, and co-captain Jeff Lukas '82 followed in 24:47. Walmsley and Lukas placed 26 and 29 in the race, respectively. Colin Kerwin '82 and co-captain Bob Collins '82 were the fourth and fifth MIT runners to cross the finish line.

Coach Cliff West described the day as MIT's "best performance in recent history" at the New England. "A Division III school placing this high in a meet of this nature is quite an accomplishment," he added. Only

one Division III squad, Colby, placed higher than MIT. In addition, the times which Neves, Walmsley, and Lukas posted are the third, fourth, and fifth fastest in MIT history on the Franklin Park course.

The Engineers, 4-2 for the regular season, will race again this Saturday at Franklin Park. Saturday's race is the qualifying meet for the NCAA District II, Division III championships, to be held at Kenosha, Wisconsin, on the following Saturday. During the next two weeks, the 1981 team has an excellent opportunity to establish themselves as one of the best cross-country teams in MIT history.

Water polo takes third

By Brian A. Schultz

Last weekend, the water polo team competed in the New England Championships with the hope of gaining a bid to the Atlantic Coast Championships. The top two teams in the New England receive a bid to the Atlantic Coast tourney. Unfortunately, MIT finished just out of the running in third place.

According to coach John Benedick, the team's goal was to defeat Harvard, which would have qualified the team for the Coastals. At the end of the first half, this goal seemed attainable, with the Engineers trailing 7-6. However, four of the MIT players fouled out, and the Crimson pulled away to a 15-8 victory. In other matches in the tournament, the team lost to Brown University 15-2, and edged out Yale University 14-13. The team hoped for a "backdoor bid" since the Coastals are being held at the Coast Guard Academy in New London, Connecticut. There was a possibility that not all of the teams that qualified would actually be there, thus creating an open spot for MIT, but this was not to be.

This ends the season for the team, who performed very well in what was "definitely a building year," according to Benedick. With only one starter, John Friedman '83, and goalie Brett Hildebrand '84 returning from last year's squad, the prospects for a good season depended on improvement of the rest of the team. The team did an excellent job of pulling together, and were consistently ranked third in the New England coaches' poll. With "tremendous improvement from the entire team," especially Peter Kalish '83 and John Beltzer '84, a spot in the Coastal Championships was almost achieved. Prospects for the team in '82 look

good with plenty of experience gained in this season.



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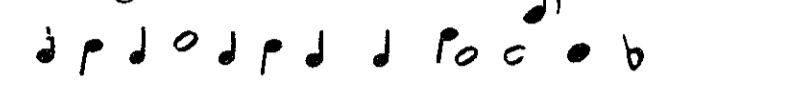


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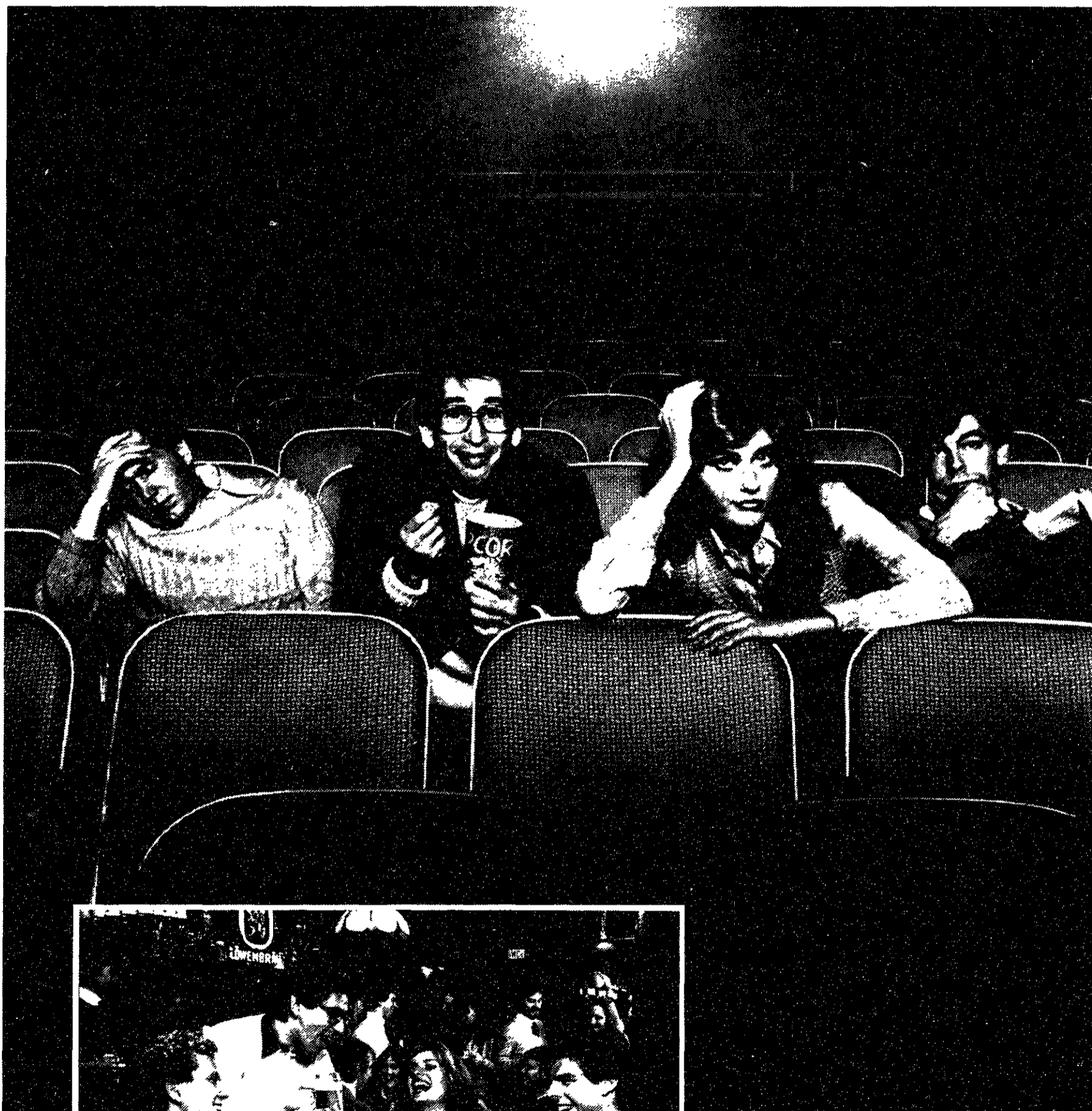
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