

Coedity verdict due soon

By Dave Danford

Assistant Dean for Student Affairs Ken Browning has indicated that a decision on which living groups will be allowed to go coed could be made before Spring Break.

While he set no deadline, Browning indicated that the proposals submitted by Chi Phi, Pi Kappa Alpha, MacGregor House and Baker House were being considered, but he added "It is probably unlikely that both Baker and MacGregor will go coed next year."

Commenting on how the decision will be made, Browning said, "There aren't a lot of real hard criteria. I think it's a very qualitative, subjective sort of thing. We'll try to see what makes the best sense for the people and for the system."

Nancy Wheatley, Assistant to the Dean for Student Affairs and member of the administration panel that will evaluate the proposals, said she couldn't speculate on the probabilities for their approval. She said, "My opinion is we're not going to get two hundred women in the freshman class." Wheatley went on to point out, "We're committed to expanding the number of women in the living groups that are already coed." Browning also noted, "We have seen concern on the part of women students that we not try

to spread coedity too thin."

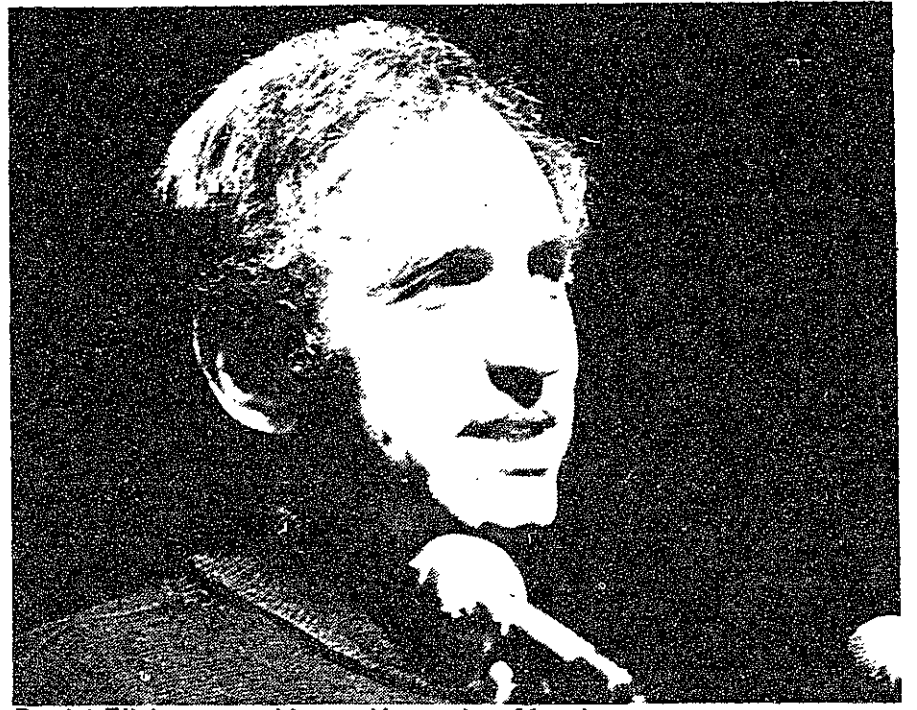
Living groups have expressed a number of reasons for wanting to become coed. "A coed environment is what the world is all about," said Chi Phi President Richard Parker '74. "The MIT environment breeds sexism. One of the ways to break down sexist views is to see women as people." He hoped that this would occur in the "more natural setting" of a coed living situation.

Ken Bachman '75, Pi Kappa President, said, "People seem to feel that it's more natural to live with women. Coedity," he continued, "is an effort to change an abnormal environment."

Mitch Tyson '76, MacGregor House President, indicated that surveys taken in his house every year since it was built have come back overwhelmingly in favor of coedity. Leeny Schneeman '75, Baker House President, said, "Coedity just seems to work out a lot better." Kathy Flanagan '76 and Sue Tonik '76, both of Burton House, expressed interest in moving to one of the new coed groups. Flanagan commented, "Female to male ratios on the order of one third to one half would be acceptable, but based on experience, one fifth or one sixth is definitely not enough." Elaborating on the effects of such low ratios,

Flanagan said, "In Burton House, you're not a sister, you're a commodity. Arbitration of rights of women, such as for invitation of outside men to living group parties, ideally should not come up. The covetous rules that apply to any commodity, however, don't apply in a fraternity with the right attitude." She concluded that very small and very large coed living groups are not easily manageable while the fraternity size of forty is just about right.

Tonik anticipated some of the problems living groups might encounter, predicting, "To start
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Daniel Ellsberg, speaking at Kresge last Monday. Photo by Richard Reihl

Ellsberg: secrecy dangerous

Obedience to authority and secrecy are dangerous to the survival of democratic government, Daniel Ellsberg told a crowd of MIT students in Kresge Auditorium last Monday night.

Giving Watergate and the Vietnam war as parallel examples of the idea that secrecy and obedience are dangerous, Ellsberg urged the students in the audience to 'say 'but it would be wrong' rather than 'but it wouldn't work' when confronted by authority.

Ellsberg, formerly with the

Center for International Studies at MIT, was invited back to the Institute by the Student Center Committee to speak on "The People's Right To Know." Ellsberg was a CIS researcher at MIT when he released the Pentagon Papers to the *New York Times* in June, 1971.

Commenting on the recent indictments of former Nixon aides for the 1972 break-in of his psychiatrists' office, Ellsberg stated that "they never thought that they could possibly get in trouble for obeying the orders of the President." Adding that he hadn't expected the indictments, Ellsberg said, "As a former defendant, I hope they get a fair trial. The grand juries seem to think that they should have several fair trials."

Ellsberg cited research by Stanley Milgram as evidence that the majority of people will obey seemingly legitimate authority rather than refuse to act. The Milgram research involved subjects administering what they thought to be near-fatal electric shocks to other people in a setting that lent authority to their actions. The results of the

experiments, Ellsberg said, varied little between economic, racial, or national classes.

The research showed "that Americans don't like to be torturers, but that it is easy to push them into that role," Ellsberg said. "When these experiments are described to people, they see them as immoral," he said. "But when they are subjects they do it."

The Vietnam war, Ellsberg said, was an example of "our willingness to go along with a massive campaign of terror and torture" for almost nine years. He stated that President Nixon's State of the Union remark that America is at peace was "a flat-out lie."

The approximately 1100 students in the audience could "unnerve" the Nixon Administration with refusal to go along with authority, Ellsberg said. The Watergate case showed that "it is more difficult to be disobedient at high levels than it is at lower levels," and that "it was inconceivable that anyone in the White House could have said 'but it would be wrong' to the President," Ellsberg said.

Industry eager for MIT grads

By Stephen Blatt

"Companies are very eager this year to hire their share of MIT graduates," according to Robert Weatherall, Director of the Career Planning and Placement Office.

In the majority of fields companies have been unable to find enough interested students, although MIT graduates-to-be are having trouble finding jobs in some fields.

Firms such as IBM, Grumman, Corning Glass and Westinghouse "would have loved to have seen more students than they actually saw," says Weatherall. This is

due both to increased recruiting nationwide and to a growing dependence on MIT for engineers.

IBM nationwide was looking for 2100 students in all fields, up from 1300 last year, according to Weatherall, while Grumman and other companies were looking for more engineers. Since national engineering enrollments have dropped considerably while MIT engineering enrollments have remained relatively stable, the demand for MIT engineers, already considerable, has increased accordingly. "MIT is a diamond mine of

talent," according to one interviewer. Weatherall says that the companies "are delighted by the high quality of students they see." Another interviewer, relates Weatherall, "was amused by a student apologizing for only having a 4.0 cum." Also women students are in great demand. "It has never been better to be a woman MIT graduate," reports Weatherall.

Grades are not as important for students entering industry as for students entering graduate school. "Companies don't really ask about grades with the same sharpness that grad schools do," notes Weatherall. "They are looking for people who are energetic, work well in organizations and show managerial ability as well as technical talent."

While students in some fields are doing very well, others, such as those in architecture, are having problems. "This is a very bad year for architects," says Weatherall, who attributed this to many factors: the high interest rates on mortgages and high construction costs have reduced housing starts 50 percent from a year ago; school starts are decreasing because of the decrease in population of the pre-school age group; and hospitals and urban renewal projects are suffering from a dryup in Federal funds.

The energy crisis has also had an effect on company hiring needs. While automobile companies are hesitant about hiring, oil companies have resumed recruiting in large numbers. "Three or four years ago oil companies had very reduced requirements because they didn't have the money," says Weatherall. "Shell, for example, was looking for four PhD's in the nation a couple of years ago
(Please turn to page 3)

Course midway draws small crowd of freshmen

By Storm Kauffman

Approximately 200 freshmen attended an Academic Midway held Wednesday in the Armory for the purpose of introducing the Class of '77 to the various departments.

Most departments turned out in force, faculty and upperclassmen, but many of the freshmen seemed disinterested.

This was the first year in which such a Midway has been organized, and one upperclassman felt that, while the setup was potentially of the right format, the midway suffered from lack of previous experience.

Several departmental representatives agreed that insufficient publicity was the prime reason for a poor turnout. Pat Callahan '75 of Mechanical Engineering said she felt that "many freshmen seemed unaware of the existence of the Midway, much less of when and where it was being held." Roger Goldstein '74 of Architecture concurred and pointed out that, because this was the first Midway, upperclassman did not know of it and so could not

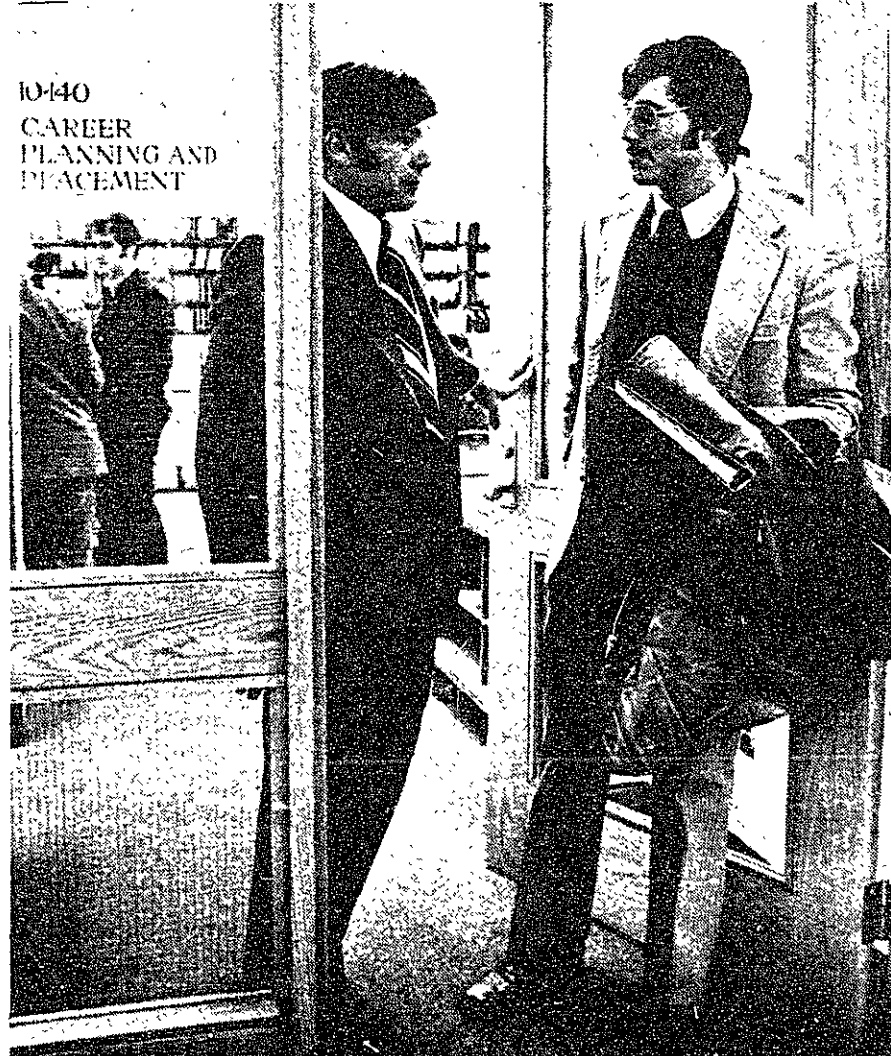
advise freshmen to attend.

However, Assistant to the Dean for Student Affairs Nancy Wheatley pointed out that a letter about the Midway had been sent to all freshmen.

Some departments had elaborate attractions, from hand-outs to a slide show. Although the faculty were there expressly to talk to the freshman, one coed admitted that she was afraid to ask questions.

Another freshman said "Some departments seemed to be well organized, while others were disorganized or non-existent. Would it really have been that much effort for a department to have prepared a mimeographed sheet telling what's happening, where, and who to go to?"

An upperclassman complained that all of the freshmen seemed to either know exactly what they wanted or had no idea at all. Callahan said that she had talked to about 35 people but felt that most were still undecided. Goldstein noted that most of the students who stopped to talk with him had seemed interested.



A corporation field representative greeting an MIT interviewee. Photo by Richard Reihl

IFC, TCA, & ASA elect officers

By Bill Conklin

The Inter-Fraternity Council, The Association for Student Activities, and the Technology Community Association elected new officials recently.

"Until last term, there seems to have been a loose interpretation of rush rules and violations," said Peter Mancuso '75, the new IFC Chairman. After this year's crackdown, I'm anxious to see what happens next year." Mancuso added that the IFC plan to maintain "tight control" over rush procedures next year.

Michael Kozinetz '75 was elected president of both the

ASA and the TCA.

The TCA is "one of the biggest service organizations around" according to Kozinetz. "We've had a couple of problems getting members in the past few years. At times, it was touch-and-go whether we would be around the next year, but things have been picking up lately."

"The ASA is planning to put out an activities guidebook listing what the different activities do, and what services they have to offer," said Kozinetz. "We'd like to have it out by the end of this term."

The ASA is responsible for assigning space in the Student

Center and Walker to different student activities. According to Kozinetz, an effort is being made to compile a "consensus opinion" from the students on what types of activities should be given space.

The ASA is also working on a "super institute calendar" which would help cut down on schedule conflicts between major activities and events, said Kozinetz.

Also elected by the IFC were Carlos Saavedra '75, Vice-Chairman, Tim Allen '75, Rush Chairman, Eric Zweigel '76, PMC Chairman, Fred Koshara, Warehouse Chairman, Mark Suchon '76, Judcom Chairman, Dave Yauch '75, Finance Management Chairman, Carl Mueller '75, Community Relations Chairman, Gary Speer '76, Charitable Contributions Chairman, Wayne Stargardt '74, Joe Sacco '75, Dave Johnson '75, Sal Molica '75, Sam Price '76, and Bob O'Brien '77, Judicial Committee.

Other TCA officials are Rich Winters '76, Administrative Vice-President, Gail Rubin '76, Projects Vice President, Jean Hunter '76, Membership Vice President, Ken McCreery '77, Treasurer, and Wendy Goodman '76, Secretary.

Other new ASA officers are Bruce Lacy '75, Treasurer, Forrest Krutter '76, Secretary, Jim Miller '76, Finboard member at large, and Jeff Schweiger '75, Class B Representative.

Dean expects decisions on coed living groups

(Continued from page 1)

with, there's going to be a long adjustment period." She said that coupling up and subsequent withdrawal of pairs of residents in coed living groups might detract from the advantages of coed living. She went on to say, "In-house couples can be handled; in-house triangles are going to cause a lot more emotional upheaval." Parker said that Chi Phi would draw upon the experiences of other coed living groups. "Adjustment problems are inevitable, but we are in a decent position to deal with them."

Bachman brought out another potential sore point when he said that the national organization of Pi Kappa Alpha, like that of Chi Phi, at present does not allow women to be initiated or hold office. Tonik commented that this did not particularly bother her. "It's the individual house's attitude that really matters. It wouldn't choke me up too much if I couldn't stay at the house in California," she said.

Schneeman foresaw few difficulties within a coed Baker House, although Tyson acknowledged that there would be "the normal coed problems" in MacGregor. "Learning to adjust probably wouldn't take that long," Tyson added.

A distinctive feature of the MacGregor plan, Tyson noted, would be that not all entries would go coed. In this way, a

fifty-fifty sex ration within particular entries could be approached with fewer women, he said.

Few sources are willing to predict the outcome of present efforts to achieve coed living. Flanagan commented, "We shouldn't be premature. What the prospects are depend on who we hear them from."

"For Chi Phi," Parker said, "everything hinges on an alumni vote later this month."

Wheatley said, "The key is how many women there are going to be available to move to coed living groups." Browning, noting the likelihood that only one dorm will be able to go coed, concluded, "It's not going to be easy to decide."

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Representatives will be on campus soon looking for people with majors and experiences like these, to go into programs beginning in July-September:

VISTA: Law, Pre-school, Special Ed., Psychology, Guidance Counseling, Social Sciences, Recreation, Journalism, City Planning, Home Ec., Construction Work, Carpentry, Community Health, Lab Technician, PE, Elementary/Secondary Teaching, BBA's, Accounting, Architecture, Civil Engineering, Voc. Ed., Spanish majors & fluent speakers, Personnel Administration, Pharmacy, Agriculture, LPN.

Peace Corps: Architecture, Ag. Economics, Biology, Liberal Arts, Ag. Engineering, Accounting, Public Administration, Agronomy, Plant Pathology, Business Administration, Geology, Home Ec/Nutrition, Hospital Administration, Construction Work, Auto Body Repair, Medical Technology, OT, Public Health, Plumbing, Elementary & Secondary Teaching, Civil Engineering, Speech Pathology, Cabinetmaking, Surveying, Statistics, Heavy Equipment Operators, Industrial Arts, French/Spanish majors and fluent speakers, MS and BSRN's, Math and Science.

The above is only a partial list. We're looking for people about to graduate in many fields and people with farm experience and rural backgrounds, problem-solving experience, literacy, tutorial and organizational experience.

Peace Corps and VISTA pay a living allowance, travel, medical expenses and a completion-of-service allotment of \$50-\$75 per month on the job.

Representatives will be on campus March 14 & 15. Stop by the Placement Office now for more information and to sign up for an interview.

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day of the concert.





MITV, closed circuit television news about the Institute, begins operation today, in the building 7 and building 10 lobbies. Doc Edgerton, being interviewed above, won't be on until the second show, next week. Photo by David Green

Companies delighted by quality of students

(Continued from page 1)
where previously they were looking for 100. Now they have the money and are hiring again."

However, despite the fluctuations in the economy, engineering students are generally well off, according to Weatherall. The main burdens of economic dislocation fall on workers in mid-career, who are unable to change. "The companies are interested in bright young fellows," he said.

Among students, there is a "renewed interest in the business world and industry as opposed to the academic world," Weatherall says. "More graduates with bachelor's degrees are going into industry."

However, many students are suspicious of the biggest firms. "They aren't sure they want to work for the top of the Fortune 500. Students would like to be in an environment where they can be noticed, like MIT."

Weatherall believes that the current attitude of students toward military-related work seems to be: "I don't want to work on a defense program if I can help it." Weatherall thinks that this hesitancy seems to "not only stem from moral grounds, but from the instability of the defense setup, where thousands

of people have been laid off by defense contractors."

The Placement Office is considering putting out a resume book in the fall for the School of Engineering, similar to the ones put out each year by the Sloan School of Management and the Harvard Business School for their graduates. The book would contain resumes of all the seniors and graduate students seeking jobs in industry. "An MIT alumnus in industry has told me such a book would be worth a thousand dollars to his company," Weatherall says. While it would put a burden both on the Placement Office and on students who would have to prepare resumes early in the year, Weatherall believes it "would be of benefit to both the companies and students."

Since the Placement Office moved to its present location, 10-180, from E19, in December, a much larger number of students are using the office, "The drawerful of resumes, for example, is much fuller than last year," notes Weatherall. But he would like to see more student feedback. "I'd like to see more students drop in and talk not only with companies but with me - students are a good source of ideas."

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In Case of Insomnia -- Man vs. Nature

By Storm Kauffman

One of the major tragedies of the growth of civilization has been the extinction of numerous species of plants and animals. Unlike air pollution and most other forms of ecological bungling, this is an irrevocable depredation — the plant or animal is gone forever.

Small citizen groups and, spurred by them, a few governments have finally begun to take action. But a variety of approaches are necessary because animals (I'm henceforth dropping the plants) are threatened in a variety of ways: destruction of their supporting ecology, extermination as a menace to life or property, or killing for food or clothing purposes.

The first threat is difficult to anticipate. Probably best would be to remember that ecologies are delicate balances requiring centuries (at the very least) to evolve and establish, and that any attack on a component endangers the whole ecosystem. In the future, ecological science will likely be developed into a technique to permit high certainty estimation of the consequences of actions.

The extermination campaigns are the most infuriating because of their blind prejudice. Ranchers, farmers, and hunters have a right to protect their property and livelihood (not exploit), but that right does not extend to the privilege of exterminating (thoughtlessly or not) another species of animal.

A case in point are wolves, a much maligned and misunderstood animal (and a favored fur for lining parkas and gloves). They are not only intelligent but also vital in maintaining the aforementioned natural balance. Preying on pests such as mice and rabbits and weeding out the unfit — the sick and lame, the young and old, the less intelligent or otherwise biologically inferior — from herds of deer, elk, and moose, the wolf (or coyote or cougar) maintains these herbivore populations at below strangulation levels. The rancher who destroys all the wolves one year, may find his herds' grazing areas overrun by marauding deer the next year.

But "predator control" (usually poisoning, but also hunting and kill-trapping) programs have been so zealously pursued that the wolf has been eliminated from over 99% of its former range in the continental US (my figures and plagiarism are from a *NY Times* column by Lewis Regenstein, executive VP of Fund for Animals). Less than 100 timber wolves remain in the US outside of Minnesota and Alaska. Minnesota has undertaken a "management" program for wolves, which could result in the animal's extinction. Under a new endangered species bill, these wolves can be protected federally by the Department of the Interior. (Usual plug, but I mean it: write your congressman.) The same enlightened view should be extended to other predators which are not in such immediate danger.

Harvesting for food supply may be an extenuating circumstance, but there are no excuses for the overkill of such as whales (by the USSR and Japan, especially). The US should continue to press nations about protecting endangered aquatic life.

With the advent of excellent synthetics, there can be no reason for the slaughter of rare animals for their furs. The US has already taken significant action by legislation against the importation of pelts from endangered species (big cats), but it is ultimately up to the consumer to refrain from buying such unnecessary frills (don't worry, mink and similar furs are okay because they are ranch grown and bred). Check the material labels and avoid products of wolf, big cat, polar bear, etc.

The theme is "save our animal legacy for future generations."

'The Right to Know' ^{CENSORED} whose?

By Michael D. McNamee
News Editor

Kresge Auditorium hasn't seen a flop like this one since the science advisors symposium fizzled last October. Daniel Ellsberg, folk hero of the '70's, came to MIT. Eager crowds came to see him — and he left them yawning in the aisles.

The Man was supposed to speak on "The People's Right to Know" — a topic that the releaser of the Pentagon Papers should certainly be able to address well. The Student Center Committee, which invited him back to MIT in hopes of getting a stirring address like the one he gave here three years ago, got only black marks for the poor arrangements they made. And the 1000-plus students who showed up got only the consolation that at least they did not have to pay to get in.

Where to begin? Chronologically, the first indications that the event might be far less than could be expected might have been Sunday afternoon, when the SCC sat down and formulated their "exclude-the-press" policy. As Chairman Steve Wallman explained to *The Tech* that night, "I'd rather see one more freshman get a seat than have the Boston *Globe* cover this." The argument that allowing one person from the *Globe* in would allow 460,000 people (1972 circulation figures) read Ellsberg's remarks didn't seem to faze Wallman or other SCC members in the least. The policy seemed also to extend to *The Tech* — if reporters wanted to be present in an official capac-

ity, they could sit in the choir loft and watch the back of the speaker's head. That's all.

SCC was finally persuaded to relent — a little. MITV, which was counting on the Ellsberg speech as part of its first weekly news show, was allowed in one-half hour early to set up on the floor. Other reporters were shepherded to the loft, but photographers were allowed to roam around and shoot from different angles. There were a lot of bitter jokes in the loft about the irony of a speech about the public's right to know — at which the press was discriminated against.

Wallman really needn't have worried, however; the whole White House press corps would have had to have been here to exclude a single freshman from a seat. Most of the back sections of the hall were sparsely populated at best, and lots of seats went begging. That freshman might not have gotten too good a seat — but only because most of the best seats were saved for SCC members.

The best is yet to come . . .

The press still almost lost its right to know. Panic struck in the loft when Associate Provost Louis Menand got up to introduce his friend Ellsberg and the reporters discovered that the only way they could hear was to listen through the monitors on their tape recorders. The photographers who didn't bring their strobes and the MITV crew had a similar sinking feeling when Ellsberg opened his speech with complaints about the lighting

— which was too harsh — and it was turned down, almost ruining any chances of good pictures. But these problems were solved, and Ellsberg started to speak.

And speak. And speak. One-and-one-half hours, without any memorable lines or interesting comments on current affairs. One-half hour of it was devoted to explaining — in great detail — the results of some behavioral research that everyone had read about a week before in *Time*, never, coming within 100 feet of his topic. A major theme — that obedience to authority can, when carried to excess, be dangerous — was only brought up late in a rambling, ill-prepared address, and was one that any bright 15-year-old could have discovered.

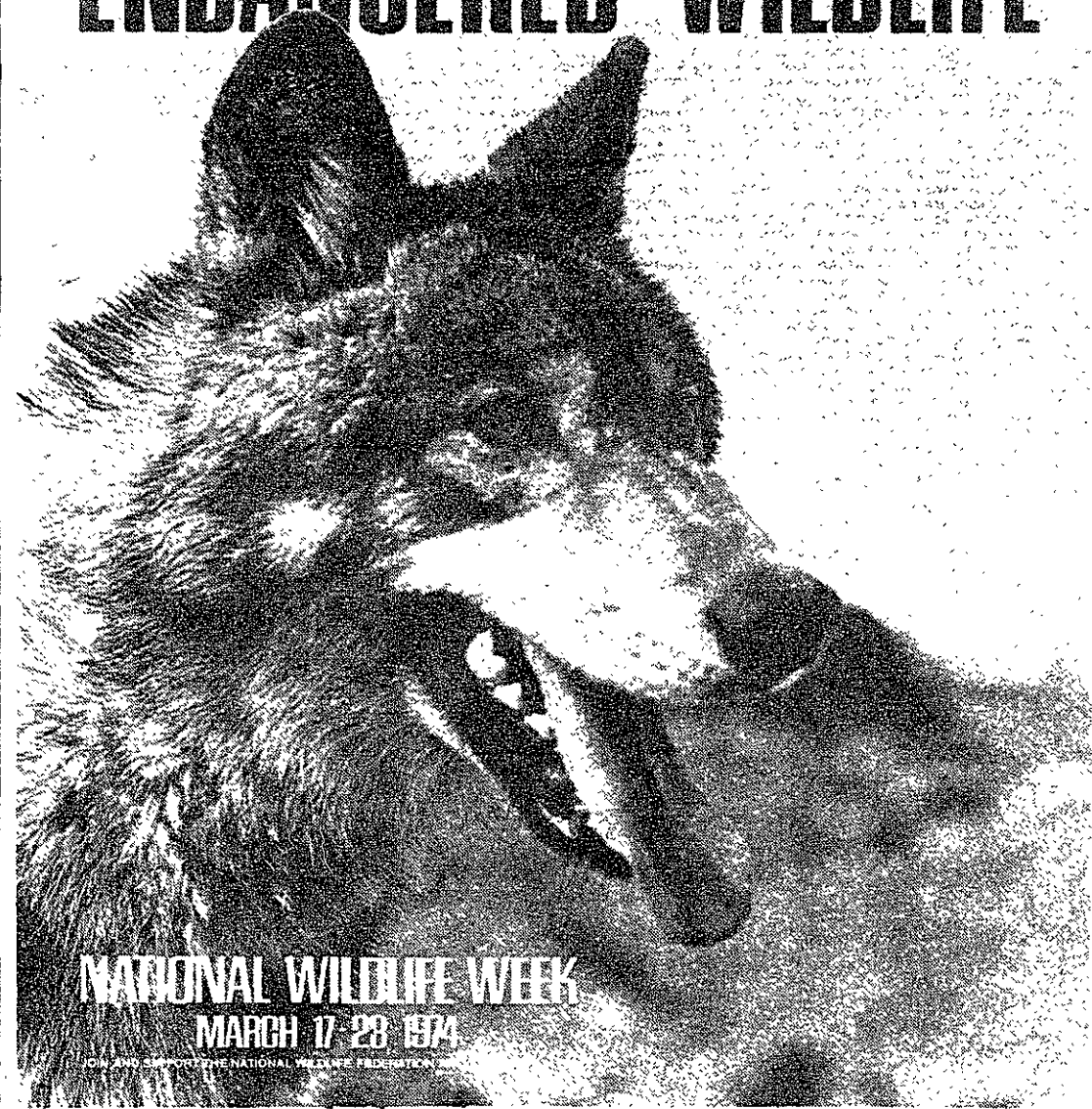
Unfortunately, there aren't too many bright 15-year-olds (making \$2,000 a night) on the lecture circuits, so we were stuck with Ellsberg. As the night wore on, and he lost whatever links he had with the audience at the beginning, people grew restless, and many got up and left. Even Wallman apparently got so bored that he left his front-row-center seat in the orchestra (where reporters, we were told, would have disturbed Ellsberg by taking notes) and came up to the loft — presumably to point out how cooperative SCC had been.

Few people stayed for the question-and-answer session afterwards.

The fact that Ellsberg is making a living as a public speaker is, at best, a tribute to the appeal of a big name, at worst a sad commentary on gullibility. SCC certainly can't be faulted for not knowing that Ellsberg would come all the way to Boston to say nothing for one-and-one-half hours. But they can be criticized for poor arrangements, for discrimination against the press, and for engaging in an ego-trip ("Gee, Mom, I had dinner last week with Dan Ellsberg,") instead of setting up an event for the MIT community to enjoy.

National Wildlife Week

we care about
ENDANGERED WILDLIFE



The timber wolf pictured on the 1974 National Wildlife Week poster symbolizes all endangered species. The National Wildlife Federation will be sponsoring its 37th annual observance of National Wildlife Week, March 17-23. The theme is "We Care About Endangered Wildlife": there are over 100 animals on the Department of Interior's official list of endangered species. Wolves were chosen as the symbol because they are "keenly intelligent animals with a highly developed social order. They fill a vital role in the workings of nature." The key to success in preserving our animal heritage is convincing people to support public efforts to help endangered species.

Letter McCormick Judcomm

To the Editor:

The problems discussed in the article on the Housemaster Steve Senturia [March 12] are internal to McCormick. *The Tech* should not have interfered, especially since the article has greatly aggravated the situation. At the time we strongly requested that the article not be printed and so did Dean Eisenbreg. We feel that *The Tech* should have respected these requests. We also request that any other articles on the subject be based not on hearsay but on fact.

Judicial Committee of McCormick (All statements in the article were based on fact. While *The Tech* does take responsibility for the content of its stories, it cannot take responsibility for all possible — often unforeseeable — ramifications of them. — Editor)

Continuous News Service

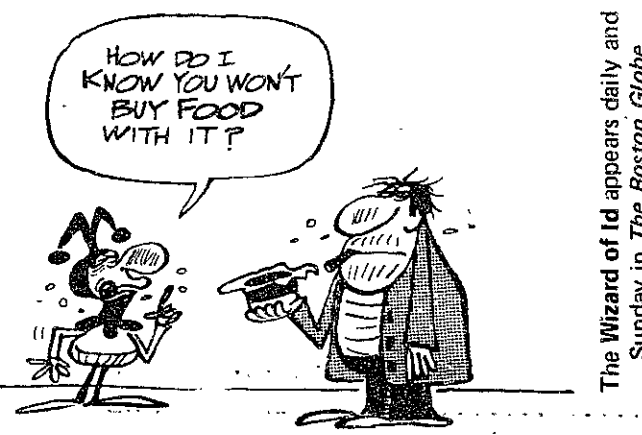
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THE WIZARD OF ID



by Brant parker and Johnny hart

The Wizard of Id appears daily and Sunday in *The Boston Globe*

Black holes flunk at MIT

Unlikely as the answer to the riddles of the universe . . .

By Storm Kauffman

Black holes have come into their own at last. They are being touted as the answers to such puzzling physical questions as "What was the Tunguska Meteorite?" and "How can we solve the energy crisis as easily as throwing hydrogen away?" However, several MIT astrophysicists doubt that black holes are all they have been cracked up to be.

Black holes are regions of space into which a mass has catastrophically collapsed and from which no light, matter, or signal can ever escape (because of the intense gravitational field).

Scientists are not yet sure that the holes exist. Although the theoretical arguments for them are strong, there has been no proven discovery of a black hole. According to present models (such as that of Remo Ruffini and John Wheeler of Princeton), three possible processes for the formation of a black hole are:

1) Direct catastrophic collapse of a star with a white dwarf core. The implosion velocity is great enough (the result of a large mass, probably greater than three solar masses) to overcome the repulsive nuclear forces by gravitational effects, and the collapse continues without stop as the matter is crushed beyond nuclear densities.

2) A two-step process in which the star collapses to a hot neutron star, which subsequently cools and further contracts to a hole.

3) A multistage process in which a stable neutron star is formed, followed by the accretion of sufficient additional matter to push the mass beyond the critical limit for hole formation.

The one other source of black

holes is the formation of the universe. Several years ago, a popular theory suggested by Stephen Hawking was that "in the beginning," in the earliest and most chaotic phase of the universe's explosive birth, some areas were forced by turbulence to implode instead of expand. This process could have led to the formation of flocks of tiny, low mass (prohibited by theory for present conditions) black holes. Assistant Professor of Physics Kenneth Brecher (he addressed a Physics Colloquium on black holes last month) stated that this theory is no longer popular.

Three scientists from Lawrence Livermore Laboratories have seized on this possible multitude of black holes as the basis for a bizarre solution to the energy crisis. The idea is to find a tiny hole near earth, build a space station around it, dump fusion fuel into the hole, collect energy radiated from the subsequent thermocuclear reaction, and beam the energy to earth. Brecher and Professor of Physics Bernard Burke described the idea as variously "amusing," "far-fetched," and "impossible."

First of all, there is no guarantee that the little holes exist. If they did, they would have to be extremely small — on the order of a billionth of an earth-mass — for their gravitational effects not to be noted as perturbations on other bodies in the solar system.

Also, there is no necessity to utilize any sort of "fuel." Dumping any sort of matter into a hole results in the release (mostly in the form of γ -rays and X-rays) of the gravitational potential energy of the mass. Brecher estimated that this gravitational energy would be on the order of 1000 times that released in fusion of the same mass.

Once within the critical radius of a black hole, no mass or energy can escape. The energy retrieved is released before the matter reaches this limit.

Tunguska explosion

Burke and Brecher also totally discounted the idea that one of these tiny black holes might have been responsible for the 1908 Tunguska incident, in which the Siberian countryside was devastated by an explosive event. Both pointed out that that entire area of Siberia was covered with dust for days following the explosion. Thus, the event was consistent with the explosion of a cometary, or similarly non-rocky, object at some point low in the atmosphere.

While he did not exclude the possibility, Brecher does not think that Cygnus X-1 (currently the leading candidate for a black hole) is likely to be the first hole discovered. He states that the radiations from Cyg X-1 might be explained by supposing a neutron star as part of a trinary system.

So the search for black holes, both large and small, goes on.

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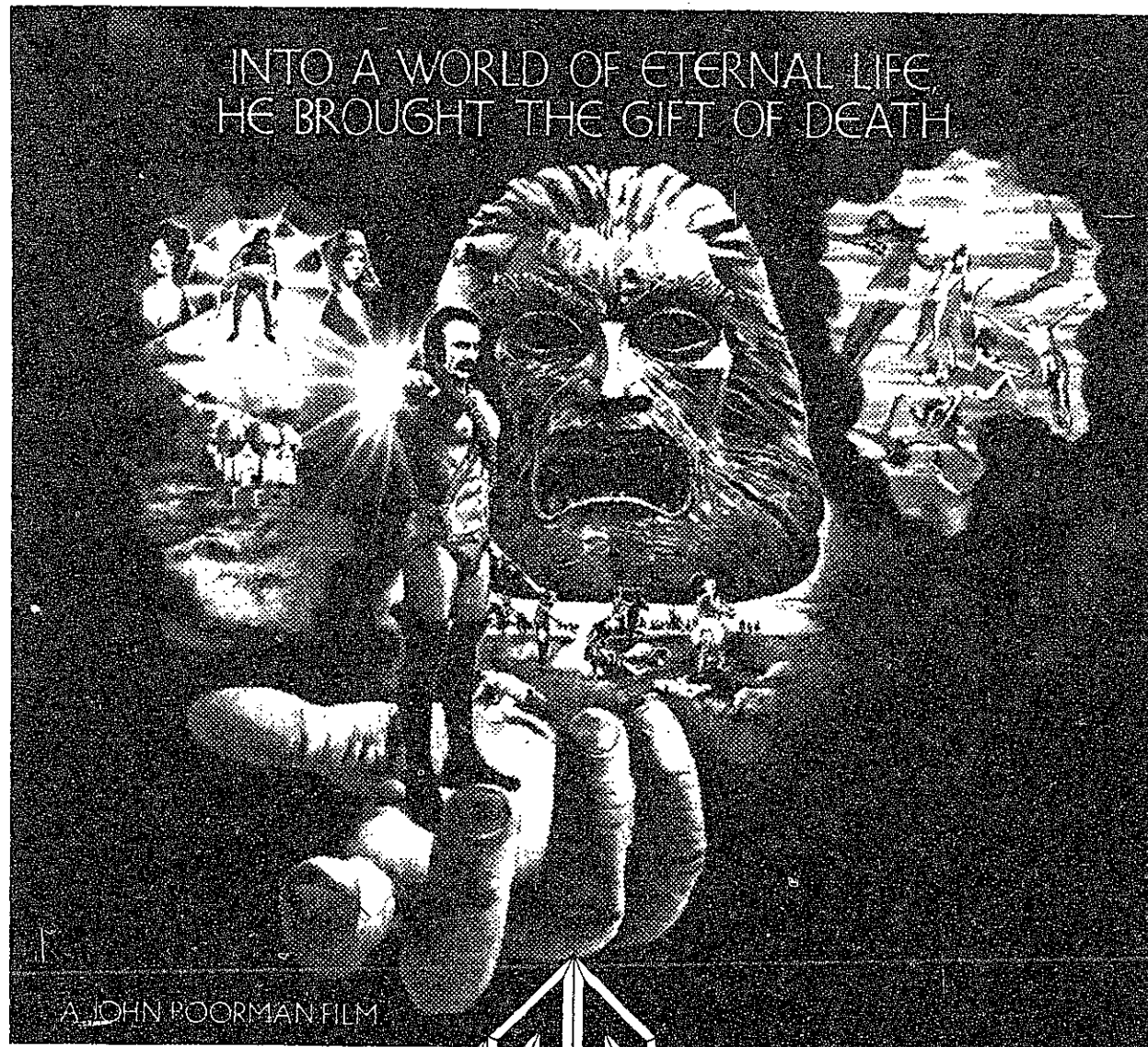
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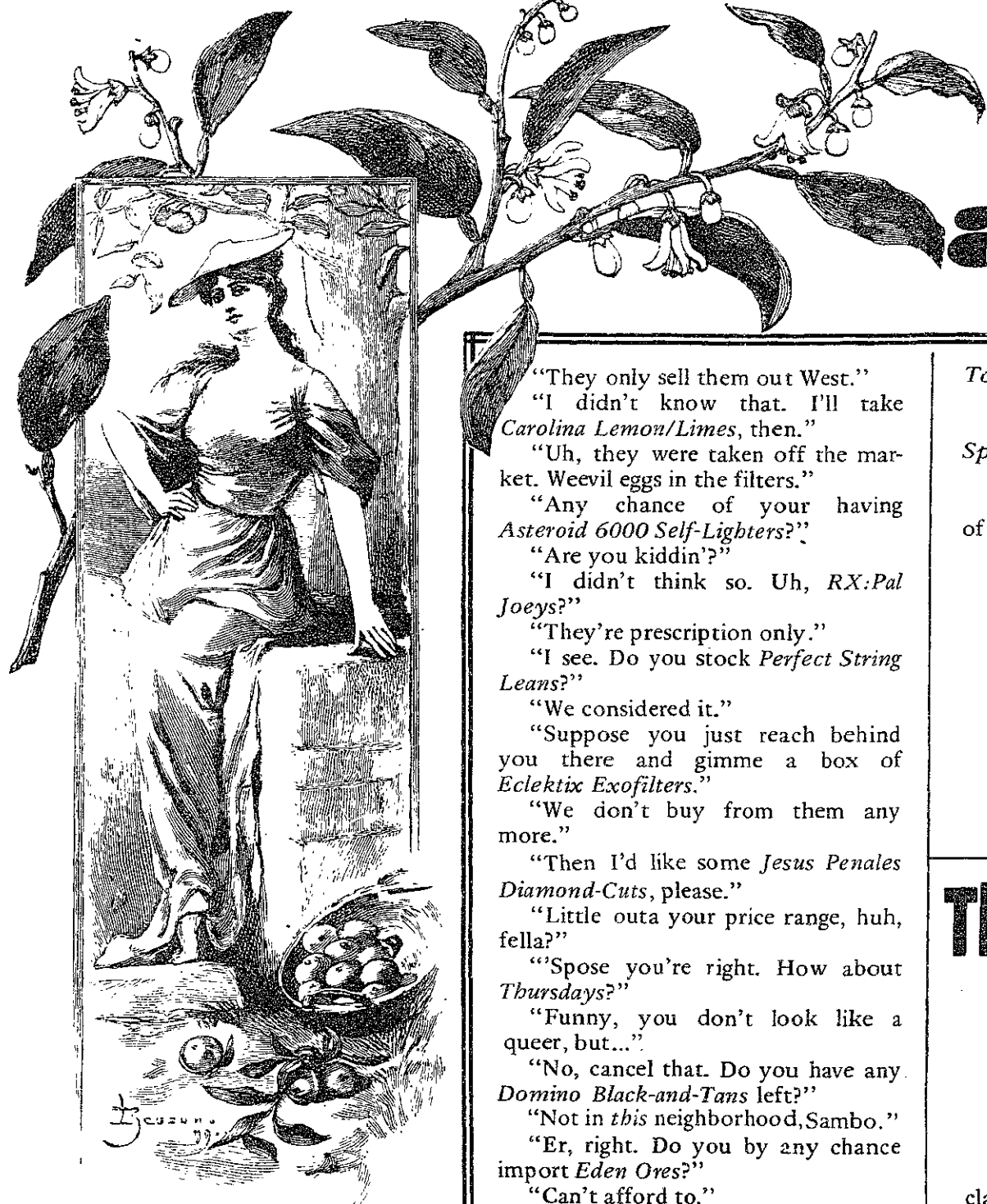


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Written, Produced and Directed by JOHN BOORMAN

the tech arts section



"They only sell them out West."
 "I didn't know that. I'll take *Carolina Lemon/Limes*, then."
 "Uh, they were taken off the market. Weevil eggs in the filters."
 "Any chance of your having *Asteroid 6000 Self-Lighters*?"
 "Are you kiddin'?"
 "I didn't think so. Uh, *RX:Pal Joeys*?"
 "They're prescription only."
 "I see. Do you stock *Perfect String Leans*?"
 "We considered it."
 "Suppose you just reach behind you there and gimme a box of *Eclectix Exofilters*."
 "We don't buy from them any more."
 "Then I'd like some *Jesus Penales Diamond-Cuts*, please."
 "Little outa your price range, huh, fella?"
 "'Spose you're right. How about *Thursdays*?"
 "Funny, you don't look like a queer, but..."
 "No, cancel that. Do you have any *Domino Black-and-Tans* left?"
 "Not in *this* neighborhood, Sambo."
 "Er, right. Do you by any chance import *Eden Ores*?"
 "Can't afford to."
 "*Diplomas*?"
 "Fresh out."
 "OK, toss me a pack of *Von Airflo Zephyrs*."
 "They're on strike."
 "Hey, you must carry *Pink Nun Bourbons*!"
 "Do you have an ID?"
 "Damn, not with me. Look, what about *El Naturos with Vitamin E*?"
 "Does this look like a goddamn health-food store, Tarzan?"
 "'Scuse me. Well then, *Turkish Big Tops*?"
 "Last shipment didn't come in, must be Customs or something."
 "I hope I don't have to go home and fertilize my lungs with a pack of *Proxy Letticettes*."
 "You get your wish."
 "*Spruce Drift Chlorophilters*?"
 "Haven't seen any for ages."
 "*Leguna 100's*?"
 "Sorry."
 "*Satisfactions*?"
 "Couldn't never move 'em."
 "No? By some remote possibility, *Ramar Banana-Tips*?"
 "Try down the street."
 "Thanks anyway. *Failsafe Two-*

Tones?"
 "I could order..."
 "Phoey. No, wait, you must have *Sphinx Slo-Smokes*."
 "No soap."
 "Listen, could I just have a package of condoms, please?"
 "Sure, guy. What brand."



not that you should teach what we want you to, nay even to teach what we want you, or even to teach what we want, or teach what we, or teach what, or teach, or, oops. I think you gleen my thrust' point. All we demand is what's coming to us, all I want is my fair share, be it fish or fowl, Objecticism or Egocism. Until next time, I am here, and they told me to tell you "We Ayn't gonna Rand away from the challenge of the monolithic dinosaurs and megaphilosophonics as it exists here, and now, and at this time, here." Pax Nabisco Sum Hobnob.

A Tribute To Woody Guthrie

On March 16, 1974, at 8pm, the Folk Society Of Greater Boston, in conjunction with The Committee To Combat Huntington's Disease and the Brookline High School, will present a performance of *Bound For Glory* at Brookline High School. *Bound For Glory* is Woody Guthrie's autobiography of sorts, based on his book of the same name, which is a collection of Woody's poems, stories, anecdotes, drawings, and philosophies.

Bound For Glory is the story of a person who would not let life beat him down, who suffered a great deal and complained little, and who devoted the majority of his musical career to writing songs for the workers, the downtrodden, or the persecuted. Some critics have claimed that Woody Guthrie couldn't sing his own material well - and Woody himself was the first to admit that he was no "polished" performer (he, in fact, claimed that he had no desire to become "smooth"). Some say he sang a little off-key sometimes, sounding, often, kind of sour. But when you consider all that his singing did for people - for migrant workers, children, laborers, union people, and most Americans, you must admit that Woody Guthrie was an important and contributing human being. And, as Woody might say, that ain't sour at all.

-Wanda Fischer

The Finer Thinks... by Dr. Bulbus Finer, V.D.

Before I travel any further, let me clarify something, that needs no clarification. I do not necessarily endorse what they tell me to write, in fact I don't even write it. That it may well be my own opinion, if such things exist, is of no concern here. Further, let me reiterate that this is only paper; and paper isn't worth the stool you wipe it with, as the Poet once demarked. Facts? Nay, facts are but the sausages men smoke as if they were cigars. Rubber ones. Viewpoints? Bunk! To bed down with viewpoints is to kiss one's mother's child's rump, as it were. May I digress? Thank you. A good example of just what I'm not supposed to think about is called, mucusly enough, *Kiss This*. Ha! One might ask, which is not to say, nay wheeze, question: Shouldn't they be made to mean "Kiss What"? We who exbrace the profound yet obscure philocopy of Objecticism might lie down with the mule and flea from the gnat, but what, Holy God in Our Heavens, are we must endure before one such as Himself might bare his teeth, gums, and cry to the Bowls of Creation: Woog? No, don't listen, hide your face in a diatribe of post-reflectionary jewels that were Reason. Lo, scoff your hat and spit forth vile excuses and ring your boxed ears with the collective bile of your blue backslaps and high whispers of praise and That's telling them Objectivist Assholes, Vinny! Do your own thing, said the Great Unwatched. Turn Up, Tune On, Drop It, wondered the flippies, the acid-smokers, the Bitheistic douchebags, who worshiped, on the left side, WITH-IT, and on the other left side, WUZHAPPININ. Clarify your blood, O moms and dads of the nethersuburbs, with the money of your horse-appropriating grandpeers, and whist them off to the Temples of Higher Earning, to sneer and jolst, and make faces at the sane ones (us) and smoke their bananas whole *bananas don't have holes. Oh yeab, THESE do, you consciousness-invading gopherball!!* and touch one another and each other and Himselves in an impure manner, with no regard for the Rules and Regulations and School Chants and SlideRule Holsters, O have a care, ye pompous hairshirts, and the curdled whitewash professors who bare their loins to the hovels and abominations which this poor washrag finds Ourselves heir to. Pant, drool, excuse me. I am carrying away. What we, the Cowled Guardians of Objecticism, most here humbly profound, is



KISS THIS
MUSTO
STO

"Could I have, uh, a package of cigarettes, please?"
 "Sure, what brand?"
 "What?"
 "I said, what brand of cigarettes?"
 "Oh. Uh, do you have *All Stars*?"
 "No, uh, we don't stock 'em."
 "How about *Multi-Smokes*?"
 "Nope, all out."
 "Well, I'll take *Sunflower Menthols*."
 "Don't have any."
 "*Polar Shorts*?"
 "Uh-uh."
 "Do you have *Lone Star Straights*?"
 "Nope."
 "Uh, *Rachel Cade OmniFilters*?"
 "Never heard of 'em."
 "*Gold Leafs*? It's an Australian brand."
 "I'm smokin' the last pack we had."
 "In that case, a box of *Prussian Four-Ups*."
 "The store boycotts 'em."
 "Not up to you, I guess. Could I have *Antelopes*, then?"
 "They've been recalled."
 "Do you carry *Excello Char-Tips*?"
 "We used to."
 "Guess I'll have to settle for *Muskogee Strongs*."
 "They don't make 'em any more."
 "Fair enough. Gimme a pack of *Beyonds*."
 "Really? They make me sick."
 "Yeah, me too. Make that *Front Row Demis*."
 "We don't sell little cigars."
 "Hmmm. Do you have *Palmer and Twits*?"

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The MIT Symphony Orchestra, under the direction of David Epstein, will present a concert in Kresge Auditorium tomorrow (Saturday) night at 8:30, and repeat it next Tuesday at 8:00 in Wellesley's Houghton Chapel. The program will consist of John Harbison's *Incidental Music for Shakespeare's "Merchant of Venice,"* Ernest Bloch's *Suite Hebraïque* for viola and orchestra, and Gustav Mahler's *First Symphony*. John Harbison is a member of the MIT music faculty, as is Marcus Thompson, the viola soloist in the Bloch *Suite*.

These concerts are a preview of the Symphony's upcoming tour, and the choice of music reflects the high degree of confidence which Epstein has in the orchestra. The Mahler *First* is a great challenge to any orchestra, requiring a great deal of virtuosity and mercilessly exposing any faults. John Harbison's *Incidental Music* is written for five-part string ensemble, and features jagged melodic lines played in rapid bursts of short notes.

All of these pieces raise interesting questions about the place of extra-musical influences in so-called "absolute" music.

Mahler's *First Symphony* was originally called *Titan—A Symphonic Poem*, and its five movements were divided into two parts as follows: (Part I) *From the Days of Youth*: 1. Spring without End, 2. Blumine (A Chapter of Flowers), 3. Under Full Sail; (Part II) *Commedia umana*: 4. The Hunter's Funeral Procession, 5. From Hell to Heaven. Mahler later sought to remove the titles and other programmatic information, feeling that they hindered rather than aided in understanding the music. He also eliminated the "Blumine" movement (a lovely Andante that may have served as a painful reminder of an unsuccessful romance) and revised the scoring in many subtle ways. (A recording is available of the early 1893 version on British Pye TPLS 13037, conducted by Wyn Morris, that should be heard by anyone seriously interested in the evolution of Mahler's style.) The titles are thought-provoking but, as if to confirm Mahler's mistrust of "programs," most concert and record jacket notes deal with the musical depiction of the original movement titles rather than with the strong musical unifying factors that underly the piece as a whole.

As with most of his symphonies, Mahler borrows from his earlier songs for much of the thematic material of the *First Symphony*. In addition, there is a fascinating preoccupation with the interval of the fourth—the opening theme of the symphony is made up of descending fourths, the bass lines underlying both inner movements are built on fourths, and the great theme of triumph in the

finale is a transformation of the opening theme. (Is it also an echo of the music for "And He shall reign forever" in the Hallelujah Chorus from Handel's *Messiah* to symbolize the arrival in "heaven?")

Ernest Bloch gave the sections of his *Suite Hebraïque* titles, but no program exists. Much of Bloch's music is said to depict the spirit of mourning and suffering of Eastern European Jewry, and he uses modal synagogue chant-type melodies to evoke this spirit.

John Harbison's score, receiving its local premiere, was written to be an adjunct to a staged production of the Shakespeare play, but it was also carefully designed so that the short segments would fit together to make a continuous work for concert performance. Certainly, as with any piece written to accompany a staged or filmed dramatic production, there are direct associations between events in the music and events on stage, and these links are an essential part of the music/theatre experience. The musical form is necessarily dictated to some extent by the dramatic structure.

As an example, the song which Portia sings (to give Bassanio a clue to help him choose the proper casket that will win her hand under the terms of her father's will) is an important thematic element of the Harbison score (it is reprinted here). It is in the form of a question and an enigmatic answer, and the two halves are superimposed when Bassanio figures out the meaning of the clue and chooses correctly. Does an understanding of the action taking place at this point help the listener to understand the music, and is it essential to an understanding of the music? Harbison believes that the piece should be able to stand more or less on its own in a concert setting; he says that it could just as well be titled *Suite for Strings* in a non-theatrical setting. The kinds of understanding to be gained from the musical/dramatic and purely musical approaches will probably be different, but it is not clear that one or the other is better.

In his narrative introduction to Walt Disney's film *Fantasia*, Deems Taylor said that music is divided into "music that tells a story" and "absolute music." It is clear from even the most cursory examination of the music on the MIT Symphony's program that this division is not at all clear-cut, and that many pieces exhibit both types of characteristics. It is particularly important to realize that a piece can legitimately be approached from the purely musical and extra-musical angles, and there should be no stigma attached to listening to a piece of music for its extra-musical values.



Classical Things

Stephen Ovades

Portia's Song from Incidental Music for Shakespeare's "Merchant of Venice" by John Harbison

Tell me where is fan-cy bred, or in the heart or in the head?

How be-got, how nou-ri-shed? Re-ply, re-ply—

It is en-gen-dered in the eyes, With ga-zing fed; and fan-cy dies in the cra-dle where it lies. Let us all ring fan-cy's knell.

I'll be-gin it, — Ding, dong, bell. — Ding, dong, bell. —

Portia's Song from *Incidental Music for Shakespeare's "Merchant of Venice"* by John Harbison



Gustav Mahler

It would be impossible to give a complete listing of the concerts that are coming up in the near future in the local area in any reasonable amount of space—this seems to be the time of year when all of Boston's many musical organizations schedule their spring concerts simultaneously. I will therefore briefly list those events that have caught my attention for the next two weeks.

March 15: **Handel and Haydn Society** performing Handel's *Israel in Egypt*. One of Handel's first oratorios, *Israel* tells the story of the Exodus from Egypt, and is chock-full of the glorious choruses of exultation that Handel wrote so well. Symphony Hall, 8 pm.

March 16: **MIT Symphony Orchestra**.

March 17: **Chorus Pro Musica** performing Bach's *St. John Passion*. Of the two Passion settings by Bach that we know today in their complete form, the *St. John* is the more taut and dramatic. Charles Bressler will be singing the part of the Evangelist. Symphony Hall, 7 pm.

March 19: **MIT Schola Cantorum** singing two Cantatas of J.S. Bach (B.W.V. 150 and 196) and the *Missa Brevis* K. 192 of Mozart. Kresge Auditorium, 8:00 pm.

March 23: **Camerata of the Museum of Fine Arts** performing masses of Josquin. MIT faculty member Rufus Hallmark is the tenor soloist. Sanders Theatre, 8:30 pm.

March 24: **Harvard University Choir** under John Ferris's direction will perform the Monteverdi *Vespers of 1610* with original instruments. This glorious work, the piece that Monteverdi wrote to show off his talents in order to gain the musical directorship of the Cathedral of St. Mark in Venice, is rarely performed, and even more rare are performances using the original instruments of the period. Memorial Church, Harvard, 8 pm.

March 24: **Masterworks Chorale** under Allen Lannom performing Bach's *St. Matthew Passion*. Nothing more needs to be said about the music, and Mr. Lannom's chorus has acquitted itself quite capably in the past. Sanders Theatre, 8 pm.

Science-humanities gap closed

By Ralph Nauman

The Technology Studies Program (TSP) is gaining momentum at MIT as it expands its activities to bridge the gap between the humanities and the sciences.

An example of this was the TSP Workshop seminar on Monday, featuring Dr. Robert S. Anderson, Visiting Professor of Anthropology and Sociology at the University of British Columbia, who spoke on "An Anthropologist Observes Research Institutions." The seminar was one of a series sponsored by TSP to suggest areas of technology which can be studied using the tools of the humanities.

Anderson said it was difficult to get his professors to concede that research institutions were significant human subcultures while a graduate student at the University of Chicago, but now he has no trouble.

Anderson was pleased by "signs the somewhat dry period I've been bumbling around with for the past ten years is changing," but added, "We are still at the problem of designing proper scales" for an ethnography of the scientific community.

Anderson described individual attitudes at the Fermi Institute in Chicago, the Shaha Institute in Calcutta, and the Tata Institute in Bombay, all nuclear physics research facilities. Noting a certain unity of behavior within the variety of the three, he concluded, "The problem of interpreting the role of domestic culture in the conducting of research is very complicated."

Technology Studies Program

The TSP began early in 1973 from a concern over the schism between humanities and sciences/engineering at MIT. Professor Nathan Sivin, *de facto* chairman of TSP, described the two aspects of MIT as viewing each other "with the Grand Canyon in between them."

"What we're concerned with," said Sivin, "is using the humanities to study science and engineering." He has been aided by the TSP Steering Committee of Maurice Fox (Biology), Harold Hanham (Humanities), Arthur Kaledin (Humanities), Irving Kaplan (Nuclear Engineering), Jerome Lettvin (Electronics Laboratory), Philip Morrison (Physics), Judah Schwartz (School of Engineering), Cyril Smith (Metallurgy and Humanities), Louis Smullin (Electrical Engineering), Leon Trilling (Aeronautics), and Judith Wechsler (Architecture).

According to the TSP's January (1974) Bulletin, the diversity of the Steering Committee "ensures that a great variety of Institute viewpoints are reflected in staffing decisions and invitations to temporary personnel."

TSP plans a headquarters, says the Bulletin, "for contacts between scientists and engineers with humanistic interests." Also planned is an archive "which will attract the collected papers of scientific and technological innovators" for "historical and social science research."

Currently, TSP sponsors the weekly Workshop seminars for the faculty; a Colloquium in Technology, Society, and Value, in which faculty teaching humanistic technical courses describe their experiences; and

the TSP Bulletin.


The future aims of TSP are "innovative research of the highest quality, ... undergraduate instruction and postdoctoral ... and a focus for Institute-wide activities (of an interdisciplinary nature)."

TSP will remain in the planning stages "until experience has determined what it should be and is prepared to be - a center, a laboratory, a department, or a unit of type unprecedented at the Institute."

Next Monday's seminar will be on the changing technology of the household and will consider how the lives of housewives have been changed through technological advances. The public is welcome.

LACROSSE

Candidates interested in this contact/finesse sport are welcome. Meeting today, 4 pm, in DuPont.



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Meetings for IM softball umpires will be held on Sunday, March 17 and Wednesday, March 20 in the Varsity Club lounge at 7pm. All teams are responsible for having at least one umpire present. Rules and pay scale will be discussed.

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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 MIT 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.

Send nomination letters to the Awards Committee, Room 7-101.

DEADLINE DATE: April 5.