Minority group finishes second study
Examines support services, aid, and admissions

By Niraj S. Desai

The Minority Student Issues Group has called on MIT for initiatives to make a more concerted effort to address the needs of minority students. That recommendation is one of many included in the Interphase Alumni Association's report on "The Recruitment and Retention of Minority Students at MIT," which was released yesterday.

Coming nearly two and a half years after a more general study of the racial climate at MIT, the report is the second in a planned series of three reports on minority concerns by the group. The 34-member MSIG is chaired by Dean for Student Affairs Shirley M. McClay and includes students, administrative officials, and faculty members.

The October 1986 Racial Climate Study said that "an attempt to let out the clutch gently over the summer rather than with a bang in September.

The Interphase alumni attending the panel generally agreed on the importance of the program and the need for continued support. They also agreed on the importance of the recommendations that the committee has made to the school in response to the findings, including the need for increased minority representation in the faculty.

The study's findings are based on a nearly tenfold increase in the number of minority students admitted in 1969. Forty-four students attended Interphase that summer, in which task force chairman Albert Hill called "an attempt to let out the clutch gently over the summer rather than with a bang in September."

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Report urges greater minority support

(continued from page 1)
that "in the interest and chairman of the faculty formulate a policy for the academic community on minority enrollment and retention; a group be designated to monitor the implementation of the policy and any resulting programs, department review the academic progress of its minority students; and the efforts to increase the number of minority faculty and staff be redoubled.

President Paul E. Gray '56 in a cover letter mailed to faculty along the report, voiced support for the call for greater faculty and departmental participation. Such a response "must not include reducing academic standards or expectations for these students. . . . These problems call for greater faculty attention, for more creative and flexible remedies at the beginning of the matriculation process, and for a more affirming and supportive MIT environment overall."

Admissions

The report notes that the number of underrepresented minority students in MIT's entering class has risen from 104 in 1986 to 169 in 1988. It attributes this rise to "intensified recruitment efforts by the admissions office staff and by minority students, and by the public at large, with MIT discussing its racial climate."

To continue this progress, the MSIG recommends that MIT maintain, or increase, its recruitment efforts, and document and refine the efforts that contributed to the gains of 1987 and 1988. In particular, the report urges an examination of the changes that took place in the applicant pool in those years, and how they relate to the increased minority enrollment. To plan for the future, MIT should examine the national pool of minority students and how it compares with MIT's pool and those of comparable institutions.

Moreover, the Institute should study the adjustment and performance of enrolled minority students, the report recommends. This will enable the Admissions Office to "refine our sense of what qualities and preparation mark a good 'match' between individual minority students and MIT."

The Admissions Office can increase the attractiveness of MIT to minority students, the report says, by providing them with personal contact with MIT personnel and students, and by ensuring that they are aware of special awards and programs for minority students.

Financial aid

"The goal at MIT is to provide enough (financial aid) on the basis of measurable need, to enable each admitted student to obtain a bachelor's degree within reasonable time limits." While this is MIT's stated goal, many minority students and their families may believe that MIT is still not a viable option because they perceive that the financial aid available to be provided will be inadequate, the report says.

The MSIG calls on the Financial Aid Office to explore new ways to "communicate the strength and breadth of MIT's aid program to the minority community." Among the suggestions the group makes are special brochures aimed at minority and low-income students and more frequent visits by FAO personnel to secondary schools and regional admissions meetings. The FAO should also begin a research project to determine student loan needs, the student work burden, or the FAO's posture on parental support and outside aid resources impacts disproportionately on minority students, according to the report.

The report also recommends that MIT explore ways to facilitate the completion of financial aid applications by minority students. Admissions decisions on minority applicants might be made early in order to provide more time for the aid application process to occur, the report suggests. The FAO could also follow-up on continuing minority students who fail to submit aid renewal applications.

One newly-created program that the MSIG singles out for praise is the MIT Opportunity Awards Program for students from the neediest families. The experimental program, which began operating this academic year, lowers the "self help" component of selected students' aid packages by $1500 to $2500. Of the 128 awards given, 60 went to under-represented minority students.

Moreover, the Institute should, besides the financial aid measures, explore ways to communicate the strength and breadth of MIT's aid program to the minority community. Among the suggestions the group makes are special brochures aimed at minority and low-income students and more frequent visits by FAO personnel to secondary schools and regional admissions meetings. The FAO should also begin a research project to determine student loan needs, the student work burden, or the FAO's posture on parental support and outside aid resources impacts disproportionately on minority students, according to the report.

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Erratum

The article on the freshman class's debate at Wednesday's faculty meeting ("Vote delayed on CUP P/F proposal," April 21) misidentified William F. McGrath '89. He is student representative on the Faculty Policy Committee.

A literary reading by

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THE PHILIPPINES

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Far Eastern Economic Review

Ninotchka Rosca is a journalist, short story writer and novelist whose stories and articles have appeared in Manila magazines and newspapers and in The Nation, and the Village Voice. She was imprisoned for her work as a journalist under Marcos.

Friday, April 28, 7:30PM, 6-120

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Japanese prime minister resigns

Japanese Prime Minister Noboru Takeshita has resigned. A government official made the announcement on national television -- saying Takeshita wanted to take responsibility for a stock scandal that has forced the resignation of several government ministers. Takeshita has been prime minister since 1987. He's seen his support in public opinion polls sink to single digits due to the stock scandal and an unpopular sales tax.

Soviet poison gas confirmed to have killed demonstrators

A Communist Party official in Soviet Georgia confirmed yesterday that some of the 20 people killed when soldiers broke up a pro-democracy demonstration earlier this month died from gas used by the troops. Many of the 120 people still hospitalized following the protest are asking the Soviet government for an antidote for the unnamed poison. Soviet officials in Moscow deny that troops used poisonous chemicals in the confrontation.

Ohio bookie reports Rose bets

Although nothing in a 13-page federal transcript indicates Pete Rose wagered on baseball games, Ohio bookmaker Ron Peters has told authorities he took upwards of one million dollars in bets from the Cincinnati Reds manager. Meanwhile, a letter from Baseball Commissioner Bart Giamatti to the court states Giamatti believes Pete's testimony. Giamatti is probing Rose's personal conduct, which reportedly includes gambling. It's not known when the commissioner will complete the investigation. His office had no comment on today's developments.

Peters faces 23 years in prison and drug and tax evasion charges.

If Giamatti determines Rose bet on baseball, he could receive a one-year suspension. If he bet on the Reds, he could get banished from the game for life.

North jury continues deliberations

Reading, not talking: that's how the foreman describes the jury's activities during deliberations in Oliver North's Iran-contra trial. In a note to Judge Edward Grieshaber, Defense attorneys said the jury was studying documents that pertain to the 12 charges facing North. Deliberations continue today.

Speculation on cause of USS Iowa blast continue

About 3000 people, some of whom were wearing black armbands, gathered in Norfolks, VA, to welcome the battle-ship USS Iowa as it pulled into its home port on Monday. Forty-seven sailors died in an explosion in one of the 16-inch gun turrets of the ship on Wednesday. The New York Times reported Sunday that Navy teams who entered the turret after the explosion found the gun's breech open and undamaged. The paper's sources say that this finding indicates the blast occurred while bags of powder were being loaded. The Navy, however, has refused to comment on the probable cause of the explosion. Defense Secretary Dick Cheney said that the Navy will continue to use World War II-style ships.

Exxon claims progress in cleanup

Exxon said that 70 percent of the Alaskan oil spill has evaporated or been recovered. That, the oil giant says, puts them ahead of the pace set in a federally-appointed cleanup plan. But the state's top environmentalist said Exxon's figures could be off by as much as 30 percent.

Atlantis set for Friday launch

The countdown for the launch of the space shuttle Atlantis is scheduled to commence Tuesday morning. Atlantis is due to go up Friday.

New heart operation successful

A Pittsburgh-area man who underwent experimental heart surgery last month says he feels marvelous, and doctors say up to a third of those needing heart operations may be candidates for this new type of heart surgery. In the procedure, doctors say they wrap muscle taken from the patient's back around the patient's ailing heart to help it pump.

Wright's ethics investigation moves to Texas

House Speaker Jim Wright's Ethics Committee investigated moves to San Antonio, TX, where committees plan to interview Mallick, the businessman involved in an oil well investment that reaped large profits for a blind trust. Wright continues to deny the 69 violations of House rules with which the ethics panel has recently charged him.

Weather

Cool and dry on a scale of zero to pi

Sunny mild days and cool nights will be the weather phrase for the next several days. A large low pressure center located over southeastern Canada will slowly exit to the northeast over the next few days keeping New England in a northwesterly flow of relatively cool, dry air. On Wednesday, high pressure located over central Canada building southeastward will usher in slightly cooler weather.

As the weather is relatively quiet, let me introduce you to a rather "irrational" scale to rate the weather. "Bad" weather (lots of rain and clouds) rates a zero, while "excellent" weather (sunny, warm, but not too warm) rates a pi. This week's weather I'll rate an "e.

Today: Mostly sunny with a few fair weather cumulus clouds developing in the afternoon. Winds northwest 10-15 mph. High 65° F (18° C).


Forecast by Michael C. Morgan

Compiled by Josh Hartmann and Jesse C. Koo
LETTERS TO THE EDITOR

GSC must postpone surveying grades on pledge

Freshman year pass/no-record stands for more than just a grading policy. It demonstrates MIT's faith that students who have chosen to enroll at MIT are sufficiently serious about their educations seriously. It is a continuing vote of confidence in MIT's ability to address the needs of a unique and diverse group of students. It is a radical idea, conceived in an era when faculty were beginning to accept the idea that the institution of lato loco parentis was inappropriate and counterproductive for students who had demonstrated, by their achievement in high school and promise for the future, that they were capable of taking care of their own lives.

Now we face a turning point. Faculty believe students have not been warned about this issue sufficiently. Their solution is to take back pass/no-record or limit it, return to a grade-incentive system. This sends several clear messages.

First, the Committee on the First-Year Program proposal says grades are important, but more important than anything else. Professor William T. Peake '51 pointed out that pass/no-record sends the opposite message. So what is the point of having students impress upon the students the importance of earning grades? It is the faculty's and students' job to encourage them to judge their self-worth on the basis of grades. The proposed change that elects freshman year are not important ten years later, because faculty does not that freshman jumps off the Green Building.

Second, the faculty supporting the proposal are implying that students under the pass/no-record system are lazy, careless, and unmotivated. If this is true, perhaps the faculty should make the degrees it has been giving away for the last 15 years or so. Has MIT been graduating incompetent engineers ever since pass/no-record was initiated?

Finally, the Committee on the Undergraduate Program, in support of the proposal, is suggesting that an MIT degree is nothing special. MIT must conform to the same procedures as other schools in the country. With other schools removing grades, potential employers at other schools really cannot be sure of what students are getting.

The CPFY proposal to restructure pass/no-record attempts to confront valid concerns, but ultimately fails. Students seem to be less prepared in upper-level classes. A few students overload during freshman year. Is this the only reason to scrap a system that has basically worked? We would re-place it with an unwieldy, ambiguous plan that aims to satisfy everyone except those with a vision of what an MIT education should be.

The first obvious solution to improving undergraduate education at MIT is to improve the quality of teaching and quantify exactly what standards are expected. MIT has the right and duty to expect students to work hard. But it also has an obligation to determine if the faculty do not understand the fundamentals of Physics II (18.02) or any class, fail them. Whether or not a freshman receives an A, B, or C should not make no difference to subsequent professors.

On a deeper level, MIT must address fundamental questions of how it plans to educate students in the years to come. Are we going to continue a policy of basic training for the "battlefield of Course VI," or are we going to look to the future, when it will not be enough to be the best trade school in the United States? Proposals to tinker with the grading system not only fail to solve any problems, they institutionalize the ways of thinking that will shackle us to the past and stifle any vision of the future.

A lack of vision drives this debate. The prominent issue that professors Marc A. Kastner and Robert J. Birgeneau have proposed to the pass/no-record motion now before the faculty attempts to passify students and restore a safety net for "those who need pass/no-record." But everyone needs pass/no-record. Pass/no-record's purpose is not to shield poor performance, it is to reward exceptional performance and give students an opportunity to achieve their educational goals without the distracting pressure of grades. Pass/no-record boldly asserts a vision of MIT as the best educational institution in the country. What we do here, others cannot. Do not turn pass/no-record into a badge of dishonor that must be selected by the lowest half of the class who cannot deal with grades.

When faculty members vote, they face a clear choice. One path surrender to the proposition that we cannot educate without out grades. The other, in this case the status quo, reaffirms the greatness of MIT, its faculty, and its students. There are problems with the MIT education, but the solution is not retreatment. It is to move forward again, to per-form a good system, to recommit to the ideals that have elevated MIT and promise for the future. Strangely, the most ambiva-lent and visionary choice is the conservative one. Pass/no-record is good. It is better.

Dave Atkins '90

Pass/fail issue concerns more than just grades

The Tech, Volume 108, Number 20, Tuesday, April 25, 1989

PAGE 4

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Eric Stange is a soft-spoken man who began his filmmaking career only recently. He is 35 years old, a Cambridge resident, and he has written for The Boston Herald. He also has worked as a freelance writer and published articles, usually about the intersection of art and politics, in The Boston Globe, The New York Times, and The Independent (London).

He attended the University of Massachusetts at Amherst, and went to graduate school in journalism at Boston University. The following are condensed excerpts from an telephone interview with him on a recent Sunday morning.

Q. What were your reasons for making this documentary film, and what led you to filmmaking in general and documentary films in particular?

A. I wanted to make a film, a documentary, about leftist American politics. I wanted to find a new way of looking at leftist American politics [to make it more accessible] and get around the reactions you get [when you mention communism].

Q. What is your previous film projects?

A. I wish I had more time to talk about more of my work, which is a 30 minute film called The Pitch of Grief, which I made in 1985. [The film looks at how four people deal with the death of a close relative.] I've done additional projects for PBS. In Children of the Left, your film looks at how four red diaper babies who are, of course, middle-aged adults by now and focuses on the memories and scars left by their parents' radical politics. The documentary doesn't break any ground in the hallowed traditions of documentary filmmaking, but its subject matter is still fascinating. Stange realizes that people often recall irrationally at the first mention of communism, and he handles his subject matter with astute sensitivity. Stange also provides a different perspective on the whole Left. If you want to be entertained by Cambridge-based filmmaker Eric Stange.

Working within the limitations of television, the 30-minute production interviews five red diaper babies (who are, of course, middle-aged adults by now) and focuses on the memories and scars left by their parents' radical politics. The documentary doesn't break any ground in the hallowed traditions of documentary filmmaking, but its subject matter is still fascinating. Stange realizes that people often recall irrationally at the first mention of communism, and he handles his subject matter with astute sensitivity. Stange also provides a different perspective on the whole Left.

By MANAVENDRA K. THAKUR

Eric Stange's film, Children of the Left, is a 30-minute film about leftist American politics. I wanted to find a new way of looking at leftist American politics [to make it more accessible] and get around the reactions you get [when you mention communism].

I'm a newcomer to the documentary world, and it's very expensive to make documentary films, even on video. I have been a print journalist for 10 years, but about four years ago, I decided to try this other medium, which is much more powerful. It has more power, more potent images. I find documentaries an intriguing way to do journalism. (As for feature filmmaking,) documentaries are obviously cheaper.

Q. What are your previous film projects?

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Potent, intense performance from Jee-Hoon Yap '90

JEE-HOON YAP

JEE-HOON YAP '90 WIELDS A NUMBER of potent pianistic tools that elicit art from her instrument; chief among them are a keen mind, a precise ear, and foresight of steel. In delivering up a selection by each of classical music's "Three B's," Yap brought out the architecture of a Bach dance suite, the playfulness of a middle-period Beethoven sonata, and the fiery poignancy in a set of Brahms variations. Having chosen as demanding a program as this, Yap proceeded to display remarkable versatility.

J. S. Bach's Partita No. 6 in E opened the recital, and Yap's depth of musical understanding carried her through some rough areas. It is in structure and symmetry that one finds deepest appreciation of Bach's works, and this performance paid respect to him. Within sections as well as between, Yap gave each line and each voice its proper formalistic due. Particularly likely was the third movement, entitled Courant. Yap's scrutiny of the inner voices was well-focused, intense, and extraordinarily musical. Two miscues failed to rattle her.

Opening the spirited Sonate in F, Op. 34 of Beethoven, Yap's technique failed her at times, particularly when reaching for octave leaps in the right hand. Her strong left never faltered, though, and the first movement, labeled "Fur Elise," brought out "Le Temps que dure la Sonata," a strong one in all important respects. The closing Allegretto (the sonata is in two movements) was the high point of the entire recital; Yap's thunderous fortissimo seemed to echo the sudden pianissimos intensely. More importantly, Yap's treatment of the gradual crescendo and decrescendo was subtle and magical. A grand performance, both timely and fun.

Following the short intermission, Yap played Brahms' Variations on a Theme by Paganini. A fantastic work which combines the Sturm und Drang of Brahms' youth with the tender bliss he came to know, this work, more than most, taxes a pianist's expressive range, technique, and concentration. While Yap was more than up to the first two challenges, her concentration failed at a couple of critical junctures, at these times, her musical momentum was all but eroded. Fortunately, though, these moments were rare, and the overwhelming impression from this Paganini was one of power and youthful vitality.

The seeds of three tremendously important interpretations were evident in this afternoon of music; another year's study and development under new Music Section acquisition David Deveau cannot help but produce a polished, confident pianist of professional proportions. I await Yap's senior recital with great anticipation — an exploration of music outside the high German repertoire may even better demonstrate her budding but considerable interpretive powers.

By DAVID M. J. SASLAV

JEE-HOON YAP '90 IN RECITAL in Killian Hall.

MIT Bach Society delivers dramatic

MIT BACH SOCIETY

Directed by John Oliver.

Work by Bach.

Kenneth Goodson '90, Tom Jones, Rockland Gospode, Jaye Mazer, Mary Westbrook-Geha, Mark Evans, and Richard Morrison as soloists. Kresge Auditorium, Sunday, April 23.

By DAVID STERN

Sunday night marked the debut of MIT's new all-student chorus, the MIT Bach Society. For their first performance, director John Oliver chose Bach's St. John Passion, a massive and ambitious piece, to be sure. Oliver and the chorus must be congratulated on a remarkable achievement.

What else can one say about the piece of music itself? St. John Passion is one of the great masterpieces by Johann Sebastian Bach. Powerful choruses, exquisite-as-always instrumental counterpoint, and stirringly dynamics — everything is here, and all were brought out in the performance.

The chorus sang confidently and was always in tune. Also featured were a group of superb professional soloists, foremost of whom was Rockland Gospode as the Evangelist. Kenneth Goodson '90 was the only non-professional soloist, but held his own as Pilate. The orchestra accompaniment was also very good, especially the cellos and basses, whose backing of the soloists served well to intensify the drama. Overall, the performance was invested. From the opening cry of "Herr!" by the chorus to the dramatic recitatives of Osgood, the performance lived up to the title Passion. Bravo to John Oliver and the MIT Bach Society. Hopefully, the all-student chorus will continue in the future to perform more works of such grand scope.

By DAVID STERN

JEAN SHEPHERD

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Lissette M. Lambergo/The Tech
The film also touches on several issues that would be highly fascinating if explored further. The film points out, for example, the many of the red diaper babies joined the New Left movement of the 1960s, "determined not to repeat the mistakes" of their parents. David Horowitz, who grew up in New York City, was an editor of Ramparts magazine in the 1960s. Today, he is a member of the Republican Party and works as "a neo-conservative political activist." On the other side of the spectrum is Country Joe McDonald, a singer who is just as leftist today as he was in the 1960s.

This raises a fascinating question of how people maintain or totally reverse their political ideology and how that ideology is affected by childhood memories. The film unfortunately does not have enough time to speak to these and many other interesting questions.

All of these limitations arise because the documentary was made for television. Undeniably hampered by his chosen medium, Stange has nonetheless managed to make a touchy issue the subject of a tightly edited, informative, and accessible documentary film. "Children of the Left" is a worthy beginning for any inquiry into the adult lives of red diaper babies.

(Continued from page 8)
Innovative Aardvark Jazz Orchestra amuses, enthralls

MARK HARVEY AND THE AARDVARK JAZZ ORCHESTRA
Works by Mark Harvey
Kresge Auditorium, Friday, April 21.

BY DAVID STERN

Y ou know you're in for an interesting evening when the program notes state, "Glücklich (the first piece) is a kind of fantasy (perhaps nightmare to some) on an imagined collaboration by Philip Glass, Steve Reich, and Ornette Coleman." The program did not disappoint in living up to expectations of imaginative and enjoyable music.

The second piece was Klänge (German for "sensed"), based on the Dadaist poem of the same name by painter Wissally Kandinsky, and it featured the talented soprano Donna Hewitt-Didham. The ethereal music effectively conveyed the mood and feeling of the poem.

The highlight of the program was perhaps Scummarumae, a tone parallel to the events of the Iran-contra affair. It was the first piece with the entire 18-piece orchestra playing. In addition to some rockin' riffs, the piece featured some amazing solos, especially the awe-inspiring Harry Scam Dance, a tone parallel to the Scamarama, and a humorous and motivating piece that the audience really enjoyed.

The program closed with an entertaining Aardvark "standard," Zippy Manifesto, based on the comic strip character.

All of Aardvark's music is written by music director Mark Harvey (who is also an MIT lecturer in music). Styles of his compositions range from atonal Ellington to "Greensleeves," as in the case of the first piece. All, however, are quite original, although some may be "difficult" to listen to. Overall, the concert was quite entertaining, intriguing, as well as satisfying. The MIT community is fortunate to have such talents as Aardvark playing on campus.

R.E.M. retains its musical idiosyncrasies despite commercial pressure

R.E.M.
Boston Garden, Sunday, April 16.

By ALFRED ARMENDARIZ
and DANNY LUEVANO

WITH THE MULTI-PLATINUM success of their latest album Green and a sold-out American tour, the members of R.E.M. are finally the rock megastars that critics have been predicting they would become for the past six years. Their last two albums have gone platinum, their latest hit "Stard" has found its way onto the singles chart, and this tour is selling out in the largest venues in the country short of football stadiums. All this new success has brought them a slew of new fans, many of whom were in the fourth grade when "It's great to be back in (your city here)" was among a series of messages that the band used to show its belief that young people must realize the importance of political awareness. Having booths 'in the lobby from both Greenpeace and The National Audubon Society, the group's polemicism seemed especially significant considering the relatively young ages of some in the audience. Yet R.E.M. never lost sight of the fact that this was a rock concert and made sure that its political messages never blurred the music.

The show opened with a great version of "Left of Centering" were among the images shown. In what came across as a spoof of the rapport many rock groups have with their audiences, a series of short phrases which the audience read aloud were flashed onto the large screen. "Hello (your city here)" read the first message — "It's great to be back in your city here." The audience immediately responded with "And another."

However, the messages took a serious tone as the group gave the audience a little political philosophy to think about. "Do not underestimate the power of individual action" was among a series of messages the band used to show its belief that young people must realize the importance of political awareness. Having booths in the lobby from both Greenpeace and The National Audubon Society was the group's way of awakening Reagan-era teens to the importance of things like the Green political movement. During "Orange Crush," a song about the use of the Agent Orange, Michael Stipe mockingly executed a series of exaggerated salutes towards the audience to show his contempt for US militarism. The group's polemicism seemed especially significant considering the relatively young ages of some in the audience. Yet R.E.M. never lost sight of the fact that this was a rock concert and made sure that its political messages never blurred the music.

Members of R.E.M.: (from left) Peter Buck, Mike Mills, Bill Berry, and Michael Stipe.

![Image of the Aardvark Jazz Orchestra](https://example.com/aardvark_jazz_orchestra_image)

The Third Annual Freshman Faculty Alumni Banquet

- on Thursday, April 27, 1989
- in Walker Dining Hall

Dinner and Panel Discussion

5:00 - 7:00 p.m.

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Call NOW!
I role as stepfather to Beth's children. In the their new relationships with each other.

L. days break up and that many children

ized that a lot of married couples these

Farrah Fawcett, and Lukas Haas. Starring Jeff Bridges, Alice Krige, Written and directed by Alan J. Pakula. Henderson and the Goodwins, to get on

two white upper-middle-class families, the

coming patently absurd. It is plain that Pakula was far more in command of his filmmaking abilities when he adapted Sophie's Choice to the screen in 1982.

This is not to say that the film is totally worthless. It does have some believably human characters, decent acting, and an ambitious flashback structure. The film is a romantic comedy about the efforts of two white upper-middle-class families, the Livingsons and the Goodwins, to get on with their lives after divorce and remarriage. Soon after the families break up, Mr. Livingston (Jeff Bridges) meets Beth Catchpole, a girl he first met at a party orga-

ized by a mutual friend named Sydney (Linda Lavin). Larry and Beth discover they are both single and decide to get married, and the rest of the film tells their story as they explore their new relationships with each other and their children.

Larry’s job as a psychiatrist doesn’t help him with his inability to adjust to his new role as stepfather to Beth’s children. In the grand scheme of things, this isn’t terribly significant, but Larry’s personality is believable and basically understandable. Meanwhile, Beth faces her own personal feelings of inadequacy and penchant for self-deprecation. Her relationship with her state of affairs requires slightly more suspension of belief but it, too, is acceptable.

Hordes of problems arise, however, when Larry and Beth have to face the con-

flicts that their respective handicaps create between them. What happens is that Larry goes to visit his ex-wife Jo (Farrah Fawcett) and her dying mother (Frances Sternhagen), who was particularly close to to any fanatics who works as a model, and she is particularly seductive now. As might be ex-

pected, Larry comes close to having an af-

fair with Jo. Understandably, Beth gets upset at Larry when he tells her about it. The film, which really hasn’t accomplished much in this whole sequence, now begins to fall apart at the seams.

Beth decides that their marriage was a mistake, and the couple agrees to separate. They make sudden twin migraine headache attack afflicts them, renewing their relation-

ship. The kids miraculously accept Larry as their stepfather, and the family soon moves out of their house to begin a new life.

Burnum’s “Academy Fight Song.” Stipe encored with an a cappella version of a Hugo Large ballad sung standing on a chair at the edge of the stage. The other band members joined him for the electrifying rendition of Pylon’s “Crazy,” an out-

take from the Fables of the Reconstruction sessions.

The band performed “Get Up” and “Turn You Inside Out” from Green and used their latest single “Stand” as the opener to their first encore. Former mem-

ber of the dBs Peter Holsapple played key-

board and guitar during the show, and his quiet playing helped the band do its job. He stepped out to sound to such a large crowd. The band played four songs from 1988’s Life’s Rich Pageant, including “Canyon,” a song about the pollution of the Cuyahoga River which fit in well with the political feel of the show. Drummer Bill Berry picked up a bass guitar, bassist Mike Mills played an accordion, and guitarist Peter Buck played an unusual steel guitar for “You Are The

Emile Bustani Middle East Seminar “The Origins, Dynamics, and Implications of the Intifadah” by Emile Sahlili, Professor of Political Science, University of North Texas. Author of two recent books on the Palestinians and the PLO and


Tuesday, April 25 4:30 p.m. E51-332 open to public Sponsored by the Center for International Studies, MIT

R.E.M. finally masters the art of stage presence (Continued from page 11) and one that is bound to make its way on many a fan’s “best-of” list. Stipe wielded a pair of drum sticks with which he beat a percussive cadence during “Welcome to the Occupation,” a song off of Document about US intervention in Central America. Since six songs from Document were per-

formed, including “Exhuming McCarthy,” “Standing at the Heron House,” and “Pointe Working.” They projected scenes of the top of what looked like a roller coas- ter or walkway at a carnival for the up-tempo “Fly” at the End of the World As We Know It (and I Feel Fine!).

Stipe’s story of the band didn’t play songs which have become almost synonymous with the term R.E.M.: “Fall On Me,” “Driver 8,” “Can’t Get There From Here,” “One I Love,” or “Southern Central Rain.” The band did supplement its repertoire with some great cover versions of “Little Miss Everything,” a song which may be their next single and could easily crack the Top 10. Rockers “Begin the Begin” and “Life and How to Live It” were highlights from their first part of the show and showed off the band’s ability to fire up an audience.

They closed the show with what Michael Stipe told the crowd was their 35th performance of the gentle “Perfect Circle,” a track from their debut album Murmur. The band has mastered the art of stage presence and the band can now connect live to an audience of any size. Those of us lucky enough to be in the front row felt something truly in-

triguing — an incredible band trying to con-

nect with 16,000 people. R.E.M. didn’t have to change anything intrinsic to achieve their success; they just had to start doing everything on a much larger scale.
Marijuana cultivation explained in Mel Frank’s Guide

MARIJUANA GROWER’S INSIDER’S GUIDE
By Mel Frank

Red Eye Press, 355 pp., $19.95.

BY ADAM BRAFF

I N THE PREFACE TO HIS Marijuana Grower’s Insider’s Guide, Mel Frank addresses the sensitive farmers and hazards a guess as to the reader’s first impulse: to cultivate a nicotine-free sativa. “Very likely you buried some seeds in a flower pot… [and] watered them faithfully every day,” he writes, “and harvested four disappointing joints. It need not have been this way.”

Frank then launches into a treatise on, among other things, how to grow plants that are anything but the pitiful sucklings produced by the novice marijuana grower. It is possible, he writes, for even the most inexperienced gardener to produce a potent crop provided he calls the necessary “forsight and insight” from the Guide. His black-and-white photographs of ten-foot high plants provide ample testimony to his techniques.

Most of the extremely large plants, however, are the result of outdoor cultivation, a subject which Frank does not address in great detail in his book. The “Insider’s Guide” which he promises in the title is just that: a guide aimed primarily at the indoor grower, leading one to wonder whether the sheer quantity of marijuana smoked by Frank has caused the words “indoors” and “insider” to become hopelessly jumbled somewhere in his left hemisphere. Indoor cultivation requires, in most cases, the purchase of lighting systems, the cost of which powered are advised by Frank to read his previous work, Marijuana Grower’s Guide—Deluxe Edition. At several points in the book, the author has placed a soap box and given his opinion of marijuana legislation and the laws which make marijuana growing, even for personal consumption, illegal everywhere in the country but in Alaska. The literature accompanying the review copy of his book included, in addition to reviews of his previous oeuvre in such “vegetable” publications as High Times Magazine, an article in Scientific American and a letter to the Oakland Tribune refuting allegations that marijuana is a harmful drug. Frank makes no apologies for writing a book about how to grow an illegal plant, rationalizing his efforts by saying that the book’s purpose “is not to encourage you to grow illegally, but how cultivation may be done when growing is legal.” This attitude, like that of radar detector manufacturers who insist that their product does not encourage law-breaking, is circumstantial but nonetheless amusing.

Politics aside, Frank’s book does an outstanding job of describing the history, biology, and cultivation of marijuana. Frank gives a very thorough treatment of indoor lighting systems, offering 65 pages filled with diagrams, charts, and photographs concerning this subject alone. When he strays from very technical matters, however, his writing tends to wander, at times bordering on dream-like tributes to the inherent beauty of growing marijuana. He writes, “Any experienced grower will probably say, ‘There’s no place I’d rather be… than sitting among my plants giving them a little TLC’ (Tender, Loving, Care).”

Frank was busy enjoying the fruits of his labor while writing—the inherent beauty of growing marijuana. He wrote, “If the reader happens to be moving to a new apartment, he might want to build himself a room with a wall of growing plants, muffling the noise of machinery, and build a stock of prized seeds for future generations.”

Another sizeable chunk of the book is devoted to potting, soil, and hydroponic systems. The section on hydroponics contains a great deal of technical discussion on the chemical components of nutrient solutions, which links up the near-philosophic writing style Frank employs in his book, his writing is scientific and precise, then slangs, then technical again, and so on. For readers with the sufficient biological and chemical backgrounds, this poses little problem and makes the reading even enjoyable.

A comparison of the various strains and species of marijuana follows, with Frank comparing the strengths of active ingredients tetrahydrocannabinol (THC) in each variety. His troubleshooting section deals with the difficult task of proper watering and is quite thorough. The remainder of the book takes the farmer step-by-step through flowering, breeding of plants, harvesting, and preparation of the marijuana, stopping just short of giving charts and diagrams on how to roll a joint. Finally, Frank is concerned enough to spend one page on the virtues of growing American, concluding with the exhortation, “Let’s save and breed a strain of that seeds for future generations.”

In short, the book is very well written and diagrammed and would serve as an excellent starting point for anyone from the beginning grower to a seasoned outdoors professional looking into moving his crop indoors. Frank is sensitive about his subject with obvious care and respect, and this compassion makes for a precise and very readable account of what amount for any present or future marijuana grower.

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RUTH WHITMAN

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Thursday, April 27th
7:30 pm
Wieners Building, E15
Bartos Theater

Ms. Whitman is the author of several books of poetry, has given readings in the U.S., England, Israel and Egypt and has been honored with numerous awards for literary achievement. Ms. Whitman will be reading a combination of her own poetry and the poetry of others who have influenced her work. This is the third in a series of five free Thursday night hour-long readings.
Viruses affecting MIT computer laboratories

(continued from page 1)

intosh, and thus do not prevent machines from getting infected by such programs. A new program called "Disinfectant" detects and removes viruses from machines. A good preventive measure is to run this program periodically in every computer in a lab, according to Bennett. The MicroComputer Center, for example, disinfects its machines every day, "but labs that are less exposed could do it every month," he said. Both vaccines and Disinfectant are available free of cost at the Microcomputer Center at MIT, Bennett added.

Two other common computer plagues are worms and Trojan horses. Worms do not need programs to propagate for they are programs in themselves. They propagate through networks, as was the case last November when a worm — mistakenly labeled a virus in the national press — propagated through Arpanet and caused severe damage at MIT and in labs throughout the United States.

Trojan horses appear to be real programs, but they actually are destructive agents. When they are run they can delete all of one's files.

Neither worms nor Trojan horses have been found in Macintosh computers at MIT so far, according to Bennett. "In fact," he said, "worms that propagate through AppleTalk [the communications network for Macintosh computers] do not exist — yet."

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Michael Franklin/The Tech
Kai-yee Ho '89 returns the ball with a backhand. Ho won the match against his Connecticut College rival. The MIT team lost 5-4, making their record 7-5 this season.

TUESDAY, APRIL 25, 1989
PAGE 14
Interphase celebrates anniversary
(continued from page 1)

Anthony Canchola-Flores, current director of Project Interphase, honors Alan Davison with an award for coordinating faculty for the program.

Professor tries to explain cold fusion
(continued from page 1)
on the number of deuterons present in the lattice.

The purpose of the first paper, as stated in its introduction, was "to provide a very simple model for exploring nuclear reactions at low temperature in the presence of a lattice." The paper elaborates on the DD fusion equation, which yields "much higher transition rates at low temperatures." But the calculated reaction rates, although containing a "very different dependence on temperature and density than that of conventional rates," do not account for the effects reported by Utah researchers.

The second paper attempts "to build up a theory" to explain the reported cold fusion experiments in terms of a reaction-driving non-thermal distribution of excited many-particle states. This paper also contains Hagelstein's speculation on how cold fusion is initiated. "Natural background radiation and cosmic ray background appear to be... premises as sources of initiation" because they involve "charged components with masses matched approximately to the deuteron mass," he writes. Hagelstein addresses the observable vance of substantially reduced levels of both neutrons and tritium in the fusion reaction in his third paper. An understanding of this effect is important in order to "minimize radioactive waste in fusion reactors," Hagelstein explains. He concludes that if his model is correct, then "relatively clean energy generation is possible at low fusion rates."

The final paper brings all the pieces together to describe "the overall mechanism for coherent fusion." Hagelstein speculates that cosmic rays can start the process. Electrical current, like the battery that fueled the Utah experiment, "plays a similar role in enabling a student lacking opportunity or skill lacks ability; only continuous dialogue among faculty members and students can expose these assumptions and correct them, Pemberton said.

Solutions to Cryptic Crossword #4

ACROSS
1. AFRAID OF THE DARK
9. GALLANT
11. TOGA
12. LIVING ROOM
13. NOTABLE
15. GOES OUT
17. GAMEOUS
19. FANATIC
20. TRUE PARENT
22. TURA
24. ERIED
26. LIGHT ON ONE’S FEET

Amagram:
I + FORKED + A + HARD + FAT
Construction/Insertion: Gall(l)ant
Regional homophone: "Sure, ma'am!"
Revise/construction: TOG + A
Double meaning
Construction: NOT + ABLE
Double meaning
Amagram: USAGE + SO
Construction: NOT - ABLE
Amagram: TRUANT + PEER
Double subtraction:
Amagram:
THOUGHS - DOUR - OR
Airline
Behedience: HAIRLINE - H
Eried:
Constant: "...close up body..."
Amagram:
THOSE + NINE + LEFT + GO

DOWN
1. ANGST
2. RELIGATES
3. DIAN
4. OUTSIDE
5. TASTING
6. EVERGREEN
7. AIM TO
8. KINETIC
9. NIGHT FALL
14. BOOTPRINT
16. OUTSTUDY
18. SUBRIG
19. FENCE IN
21. UNBRIG
22. AUDIT
24. CUPS

Subtraction: ANGSTROM - ROM
Construction: RE + LE + GATES
Construction: I + VAN
Constant: "Shut ideas..."
Amagram/constant: TASTING
Amagram/constant: EVERGREEN
Amagram/constant: AIMTO
Amagram: MIKE + CANT + I
Amagram/insertion: THINK - FALL
Construction: BOOT + PRINT
Construction: CUT + SLIGHT
Embezzlement: SUDBORD
Double meaning/insertion ("ion")
Constant: "...can't go..."
Construction: AUD + T
Construction: C + UPS

TUESDAY, APRIL 25, 1989
The Tech PAGE 16

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OCCUPATION

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BRANCH

ARMY

ARMY NATIONAL GUARD

AMERICANS AT THEIR BEST.


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When my friends and I graduated from high school, we all took part-time jobs to pay for college.

They ended up in car washes and hamburger joints, putting in long hours for little pay.

Not me. My job takes just one weekend a month and two weeks a year. Yet, I'm earning $18,000 for college.

Because I joined my local Army National Guard.

They're the people who help our state during emergencies like hurricanes and floods. They're also an important part of our country's military defense.

So, since I'm helping them do such an important job, they're helping me make it through school.

Army National Guard

Americans At Their Best.
**Travel plans send frisbee team packing despite early wins**

By Ali Azar

The frisbee club traveled to New York this weekend to compete in the Purchase Cup Tournament at the State University of New York at Purchase. Although MIT planned to attend only the first day of the tournament, they went undefeated in pool play on Saturday and qualified for the playoff rounds slated for Sunday. Unfortunately for the team, their travel plans were set, and they were unable to compete in the playoffs.

MIT stumbled past SUNY-Albany, 10-9, in its first match. The 60° temperature and gusting wind set the stage for sloppy offensive and loose defensive play from both teams. Each team scored only one goal in the upwind direction. The choice by captain Mark Griffith to start MIT's undefeated effort earned MIT's favor.

MIT changed uniforms from white to black to challenge the team's opponents in its three-team sectional tournament at MIT's favor. Weekend the team will play with their second upwind goal.

Unfortunately for the team, their travel plans were set, and they could not stay for Sunday's elimination rounds. Next day, defeating Dartmouth, 15-11.

Guerrilla change in MIT's favor. MIT stumbled past SUNY-Albany, 10-9, in its first match. The 60° temperature and gusting wind set the stage for sloppy offensive and loose defensive play from both teams. Each team scored only one goal in the upwind direction. The choice by captain Mark Griffith to start MIT's undefeated effort earned MIT's favor.

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Softball to meet Brandeis in conference tournament

Sports Update

Lose coin toss to open on the road

The MIT softball team defeated the group from Smith College yesterday 7-6, to close the New England Women's Eight regular season. The Engineers came from behind to score the winning run in the bottom of the fifth. Smith threatened to tie the game in the top of the seventh, but an unassisted double play by shortstop Diane DiMassa '88 ended the game.

In a non-league doubleheader held Saturday against Nichols College, the Engineers lost twice. MIT dropped the first game 8-6, and lost the second 6-1, after trailing by only point for most of the game.

The team will begin NEW8 tournament play on Thursday. Three teams ended up tied for third place in the conference, and a coin toss was held to break the deadlock. The Engineers lost the toss, ended up fifth, and will have an opportunity to show the voters they deserve the number one position when they face the Judges in the continuation of a rain-postponed match later this week. MIT's number one singles player, Kai-See Ho '89, is ranked fourth in New England, and the doubles team of Ho and Brian Brown '89 is ranked third.

Jeff Hamilton, the team's coach, is currently ranked second in New England in the men's 35- and-over singles group.

Track star garners NSF recognition

Weight man Scott Deering '89 has recently been cited by the National Science Foundation as one of three examples of outstanding recipients of the Foundation's minority fellowship program. Deering is the reigning NCAA Division III champion in the 35-pound weight throw. He also competes in the hammer throw and shot put.

Tennis currently second in New England

The men's tennis team of Brandeis University in the rankings, and will have an opportunity to show the voters they deserve the number one position when they face the Judges in the continuation of a rain-postponed match later this week. MIT's number one singles player, Kai-See Ho '89, is ranked fourth in New England, and the doubles team of Ho and Brian Brown '89 is ranked third.

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Women's crew takes Brunelle Cup

by Karen Chenausky

The women's varsity crew team won the Brunelle Cup Saturday despite a strong headwind over the Charles River. MIT beat three other crews to sweep the regatta, its second sweep of the season. Since the wind was so strong, the officials decided not to use the stakeboats moored on the starting line and had a floating start instead. Originally, the race was supposed to be between MIT, Simmons College, and Mount Holyoke College. Wellesley College, however, was in town for two lightweight races, so they entered boats in all the races at the last minute.

MIT was behind until almost the 1500-meter mark. Coming past the boathouse, MIT was behind Mount Holyoke and ahead of Simmons and Wellesley. MIT then turned up the power and simply cruised past Mount Holyoke in a smooth, fast, and unmatched feeling of the boat, which lost to both crews with a time of 8:03. Radcliffe, whose lightweight program is very strong, won with a time of 8:34, and Wellesley came in second at 8:50. According to junior varsity coxswain Paula Han '90, who saw the race from the official's launch, "[MIT] looked a lot smoother than Wellesley."

The lightweight lineup this week included Ellen Doxan '91 (coxswain), Laura Beecroft '91 (stroke), Karen Chenausky '89, Lola Matsuika '91, and Deborah Chen '89 (bow). The JV eight's race was also frustrating for MIT, which came in behind Wellesley and Mount Holyoke with a time of 8:42. Wellesley won with a time of 8:24, and Mount Holyoke was second at 8:32. The JV lineup this weekend was Paula Han '89 (cox), Carol Waldmann '89 (stroke), Anne Khamlinsa '89, Kristine AuYeung '91, Caroline Lee '91, Jennifer Newton '91, Lynne Chen '90, and Magda Nour '89 (bow).

The second-priority boat last weekend was the lightweight four, which raced against Simmons and Mount Holyoke.

Kristine AuYeung '91, Kai Freeman '89, Debbie Bein '91, and Joanne Becon '89 (cox). Wellesley's crashing the regularly scheduled open races (open to people of any weight class) caused some consternation to the first novice eight, which beat Simmons and Mount Holyoke decisively, but lost to Wellesley. Wellesley's winning time was 7:39, MIT finished in 7:51, Mount Holyoke in 8:00 flat, and Simmons in 8:04.

The MIT lineup was Lena Huang '92 (cox), Becky Zawonski '91 (stroke), Zibi Turtle '92, Liddi Esmoungu '92, Holly Simpson '92, Paula Ferguson '90, Kris Clark '92, Amy Bowen '92, and Mareil Berry '92 (bow). Ferguson said that coach Tim Tiffany worked his novices hard this week. "He wanted us to win this exciting last 500 meters. MIT was with a time of 7:29, followed by Mount Holyoke at 7:31, Simmons at 7:34, and Wellesley in last at 7:37.

The varsity lineup for this race was: Trish Roux '89 (cox), Laura Opasiannick '90 (stroke), Becky Dumas '90, Sue Perrin '91, Belinda Young '89, Lynore Abbott '91, Gwenn Shelton '91, Wendy Rowell '90, and Magda Nour '89 (bow).

The second-priority boat last weekend was the lightweight four, which raced against Wellesley and Radcliffe. This race went much less well for MIT. Whereas the varsity boat has had, basically the same rowers in it since the beginning of the season, the lightweights on the women's teams have been shuffled around between various lineups. This accounted for the rough, slightly...
Track ready for real season after third straight lopsided victory

By David Rothstein

The short regular outdoor season is over for the men’s track and field team — let the games begin.

After laughably lopsided wins over three teams in two meets earlier this month, the Engineers traveled to Worcester on Saturday for the Holy Cross Classic, which served as the final tuneup for MIT before it participates in next weekend’s Greater Boston Championships in February, the team will serve as the final tuneup for MIT, as the Blackbirds dominated the 100 meters in 11.28 seconds with Boniface Makatiani ’90 winning both events, while Freshman Kelly Davis extended his perfect in the distance jumping events with a 22’-5” leap to win the pentathlon.

With memories of a disappointing performance in the indoor version of the championship in February, the team will be looking to vault over the fifth place that is MIT's best-ever finish at the outdoor GBC.

At the Holy Cross Classic, which head coach Gordon Kelly called a “good preparation for the Greater Boston [Championships],” the Engineers earned four first-place finishes and three thirds.

Freshman Kelly Davis extended his strong early-season performance in the triple jump with a 46-foot jump, good for first place. MIT, in fact, took three of the top four places in the triple, with Kwaaka Prakash-Antoni ’90 placing third at 45’-5.5”, and Bill Singhove ’90 placing fourth at 45’-1.6”.

Kevin Scanlin ’92 made MIT perfectly in the distance jumping events with a 22’-5” leap to win the long jump.

The Engineers’ other first places came in the dash event, with Roniface Makatiani ’90 winning the 100 meters in 11.28 seconds.

The Engineers then lost contact in the second and third places, respectively.

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