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# The Tech

"... biggest Cabinet-level  
shake-up since the Saturday  
Night Massacre ..."

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VOLUME 95, NUMBER 45

MIT, CAMBRIDGE, MASSACHUSETTS

TUESDAY, NOVEMBER 4, 1975

## Students across nation approve of quarter plan

By Henry Fiorentini

The quarter plan academic calendar, recently proposed for MIT, has met with general approval at schools using it, according to an informal survey conducted by *The Tech*.

A School of Engineering "Self-Appraisal Project" recently released a report which recommended among other things that MIT change to a calendar based on quarters.

A majority of the students contacted at the California Institute of Technology (Cal Tech), Northwestern University, Stanford University, and the University of Chicago expressed positive opinions on the quarter plan.

A University of Chicago student who has studied under the semester, trimester, and quarter system expressed a common point: "It (the quarter system) is a good way to go to school. I prefer it over the semester system because it gives you more flexibility and you can take more elective courses than you might otherwise be able to. Things move very quickly and you have to keep up, but if you really want to learn, it's really the best way to do it. The only

problem is that the exams come up on you so quickly."

The only divergence from this opinion from the half-dozen or so students interviewed came from a Stanford student who had transferred from Syracuse, which is on the semester system. The quarter system is "... too congested," she said. "You're just getting into things when it's over, and everything just moves too quickly. If you miss a night of studying, you just fall behind. It's hard."

The other extreme, however, was given by a third year chemical engineering student. She replied enthusiastically, "It's

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## Artificial Intelligence: bright future seen

Patrick Winston '65, Professor of Electrical Engineering, is nearing the end of his first year as director of the MIT Artificial Intelligence Laboratory — the labs where he has been working, as student and faculty, since 1967. The Tech's Daniel Nathan '79 recently interviewed Winston for an up-to-date look at AI — the field and MIT's work in it.

*The Tech*: What is the Artificial Intelligence Laboratory and

what is its purpose?

Winston: The basic purpose is to understand how computers can be made intelligent. This purpose has two principle sub-goals, one of which is understanding intelligence for its own sake. The other is to understand how to make computers more useful. Our view is that we can do a great deal more with computers by using intelligent ones in particular on jobs that are too

massive, too boring, too dangerous, and otherwise inappropriate for people.

*The Tech*: Does this correspond to the world view of artificial intelligence?

Winston: This view is universal. The sites of AI as practiced at MIT are limited to a few main centers of the world, largely as a result of the large initial costs involved in starting a substantial project. AI up till now has required large initial investments of millions of dollars in equipment to provide the necessary facilities for contemporary work. AI has always been a field that required tremendous contributory sources and only with the introduction of automated design techniques and large scale integration can we change that. Our lab, for example, is working on a relatively inexpensive machine for writing large programs which costs on the order of \$50,000.

*The Tech*: I've read that there was a problem with the AI field when it was conceived of being respectable in the eyes of pure scientists. Is this still a problem?

Winston: There are a few things one must understand to realize the situation. One is that

all new sciences appear weird and strange, and certainly AI is a new science; since it depends on the existence of computers to provide a cornerstone to our way of looking at things, it couldn't possibly exist until after the mid-fifties. The young science interested in intelligence must necessarily be interested in a wide variety of other scientific endeavors and there is a natural difficulty in being interested in a lot of other fields without irritating people that are already in these fields and happen to have a very established way of looking at things.

I think the real political problem, shall we say, that AI faces is not unlike the problems of introducing the notion that the universe is not geocentric. Copernicus in some sense had the same problem in that he was removing man from the center of things. And similarly, if AI succeeds, as we believe it will, that will mean that man will no longer be the only intelligent thing. So having removed him from the center of the universe and having Darwin remove him from the center of creation, we are now faced with the possibility that we will even

(Please turn to page 3)

## Corpses lost; medicine gained

By Margaret Brandeau

What inventive ways have grave robbers — or "resurrection men," as they were once known — used in the past to procure bodies? How much would a good body bring? Why was grave robbing a choice economic activity for many years?

These ghoulish questions were addressed at the Halloween Concourse Forum by University of Cincinnati Professor Saul Benison in a speech entitled "The Sack 'Em Up Men — A History of Grave Robbing" which went beyond the bizarre into a serious discussion of the history of anatomy.

Benison explained that grave robbery resulted from the collision between man's superstitious fear of the dead and the 17th-century Scientific Revolution. As scientific study of human anatomy became popular, anatomists found themselves stymied by legal bans on dissection of human corpses.

The body of a dangerous criminal who had been executed might occasionally be turned over to some famous surgeon, but these few bodies were not enough to fill the demands of all the surgeons interested in anatomy.

Surgeons were forced to find secret ways of obtaining bodies themselves, Benison said. At first they would go out along the local highways where the bodies of executed criminals were tossed. They might steal away with a bone they especially wanted, or, if the body was particularly fresh, might come back at night and make off with the whole body. But anatomy was a burgeoning science, and the demand for corpses was too great to be satisfied by this supply.

It didn't take long for entrepreneurs to realize that surgeons would pay well for bodies — and would ask no questions. "It was price that was the beginning of the trade," Benison said, explaining that an intact body would bring about 8 pounds in Scotland — 15 weeks pay for a Scottish weaver. "To the poor, grave robbing was looked upon as a perfectly honorable business," Benison said.

How did these "resurrection men" operate? Sometimes they would break into a house where a body was lying in state and make off with the body. Other times they would steal into a graveyard at night and dig up a freshly buried body.

Particularly enterprising robbers began to create their own corpses. A favorite way to do this was with alcohol. A resurrection man would find some beggar or tramp and ply him

with alcohol until he fell unconscious, then suffocate him. This method was popular, Benison said, because it left no marks on the body, and even the best doctors could not tell whether or not the victim had suffocated naturally.

Grave robbing became a widespread business; as even some well-known persons were also heisted from their coffins. President Benjamin Harrison once received a call saying that his best friend had been stolen from his grave and was being dissected at the local medical school. Upon arriving at the medical school, Harrison did not find his best friend, but he did find his father, a state senator who had died just the week before.

Grave robbing finally came to an end in 1831, Benison said, about 200 years after it began when an anatomy act was passed which legalized dissection.



University of Cincinnati Professor Saul Benison: demand for bodies exceeded supply.



A researcher works on a mechanical arm at the Artificial Intelligence Laboratory.

Mark James

## Nuclear war before 1999 probable, experts say

"A very nasty kind of world government" may be the only way to keep the world from blowing itself up in a nuclear war, according to Political Science Professor George Rathjens, a nuclear arms expert.

Four other panelists from Harvard and MIT joined Rathjens in a series of articles in the November issue of *Harvard Magazine*, in which they predicted nuclear war in some form will erupt before 1999.

"It would take an enormous surrender of sovereignty to bring nuclear proliferation under control... a radical change in our whole life-style, meaning the surrender of most democratic values and the addition of rather brutal methods to keep the nuclear threat under control," Rathjens said, "A very nasty kind of world government may be necessary if we are to survive in the world I see ahead. Such a

harsh government is a very grim prospect and it's not very likely. Nuclear war is more conceivable."

Nuclear war will not originate with the United States or the Soviet Union, but with relatively smaller nations in the Mideast, Asia or Africa, the panelists predicted.

Harvard Professor Thomas Schelling wrote, "I have no confidence that any government — be it a world government, democratic government, or dictatorial government — will be able to cope with the problems of nuclear weapons any better than they can cope with the usual criminal problems in society. And it is very frightening to realize that by 1999 a device with the power to blow up a community the size of Cambridge, for example, could probably be carried on the back of any strong person."

# Quarter plan popular elsewhere

(Continued from page 1)  
 great! If you really want to learn something, I think this is the best. You're always picking up new material and though it's hard, you can really get into a lot of things in a year, and expose yourself to more diverse areas that broaden your outlook, which you might not get on the semester system. I'm glad that we're on quarters."

The conventional quarter system divides the year into four twelve-week parts, three of which constitutes a "normal" academic year. Students may however, attend the fourth (summer) quarter in place of any other quarter if they desire. Adoption of this plan would help the Institute move toward a year round school, help alleviate the financial burden of supporting relatively unused facilities during the summer and provide greater flexibility for both the students and the Institute.

An alternative to the quarter plan is the trimester system in which the year is divided into three sixteen-week parts. This leaves the standard semester system in virtually the same condition that it is now, while pro-

viding year-round flexibility without cramming too much material into too short a period of time. As the student from the University of Chicago went on to say, "Having studied under all three calendars, I'd definitely rather have the trimesters." The University of Chicago is currently on the quarter system.

There are apparently no immediate plans within the administration to change the calendar. Associate Dean of Engineering James Bruce '60 said, "I do not believe that the quarter system is one of the ten to twelve issues we should devote our attention to, out of the Self-Appraisal Project group." However, Bruce also noted that the Institute must do something to move toward year-round operation.

Kenneth R. Wadleigh '43, Vice-President and Dean of the Graduate School, when asked what the outlook was for a change in the calendar, replied

that it was not a simple question, and that many different aspects had to be analyzed before making a decision. However, he did point out that "... if there is a legitimate reason (for a change) it usually succeeds. When you do things just to save money or cut corners at the expense of quality, the Institute usually suffers for it."

From an overview of the reaction of students to the quarter system where it is already in operation, it seems apparent that the quarter or trimester system is feasible, and might be favored by many students. For those who feel too cramped by the quarter system, the trimester system provides a viable alternative as it provides flexibility, without overly compressing available time for study.

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# AI lab director assesses field

(Continued from page 1)  
lose our distinction with respect to intelligence. And I think that there is a kind of natural wonder and disbelief at the possibility that that might happen.

**The Tech:** Do you find that there are restraints on the work here because the new field could possibly offend many people?

**Winston:** No. I don't think it's ever occurred to us to do anything to upset anyone. We are on one side merely psychologists trying to understand intelligence and it becomes upsetting when people extrapolate from that and become anxious over the notion that we want to create it as well as understand it.

**The Tech:** At MIT AI, what is the work being done with the education of children?

**Winston:** It's our view that there ought to be a great deal of cross-fertilization possible between learning how to make computers intelligible and learning how to make people intelligible. That is to say, if we knew more about how children learn things we ought to be able to learn more about the kinds of knowledge structures that are prerequisite for any intelligent thing to know something.

Similarly, by studying computer intelligence we can learn about the sorts of ways procedures can be described so as to improve our explanations of process to people as they are educated. See, it's really bi-directional: learning about children helps us learn about how to make computers intelligent and conversely, our notion about

how to use computers in education is the notion of showing children of any age from mere infancy to post-graduate; by showing them how to program we can by analogy show them clear, crisp, and precise metaphors for thinking about thinking in general.

**The Tech:** Is this program unique at MIT?

**Winston:** No, its intellectual roots are in the psychology of the famous child-psychologist Peter Jay. Seymour Papert, the leader of our educational pro-

**Winston:** Yes, there tends to be. Since the community has remained small, the workers in the field tend to know each other.

Actually, I should qualify that to some extent. The number of people in the major centers is small, but the number of people that are turning toward AI as a way of understanding psychology or as a research field in its own right is growing rather rapidly. That is demonstrated by the International Artificial Intelligence conferences which have

"... learning about children helps us learn about how to make computers intelligent..."

gram, spent some time in Jay's laboratory, and came to MIT with a view toward amalgamating or synthesizing these notions about understanding people into the emerging field of computer science. So, from the dual source of intellectual conditions, Papert created something that is indeed quite unique only as far as other institutions have taken up this way of doing things. There is work being done in this in Montreal, and elsewhere in area in Edinburgh, Great Britain, the US.

**The Tech:** Is there a good deal of cooperation among world centers of AI?

drawn increasing participation each time they are held. There have been four of them, and each has been twice as large as the one previous. The last one was held in the Soviet Union and I might point out that the Soviet interest in AI is nothing short of incredible.

**The Tech:** Since it is such a vast field, are there any practical applications of it in sight?

**Winston:** Until recently, AI had not reached a sufficient state-of maturity to think about immediate applications but in the last year or so I think we have come quite close to the point  
(Please turn to page 6)



A. David Bocceffri

Patrick Winston, Director of the Artificial Intelligence Laboratory, says "we have come close to the point where serious applications (of AI) can be undertaken."

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<p>GWEN CHAMPION (V, '76) Junior Year at Imperial College of Science and Technology, University of London, 1974-75.</p>	<p>GREG SALTZMAN (XIV, '76) Junior Year at the London School of Economics, University of London, 1974-75</p>
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\*\*\*\*\* followed by discussion period and refreshments \*\*\*\*\*

DATE: Tuesday, November 4, 1975  
TIME: 4:00 P.M.  
PLACE: Jackson Room, 10-280

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December 4	Revolution and Romanticism in Nineteenth Century Painting	Judith G. Wechsler (M.I.T.)
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# Opinion

## The Tech

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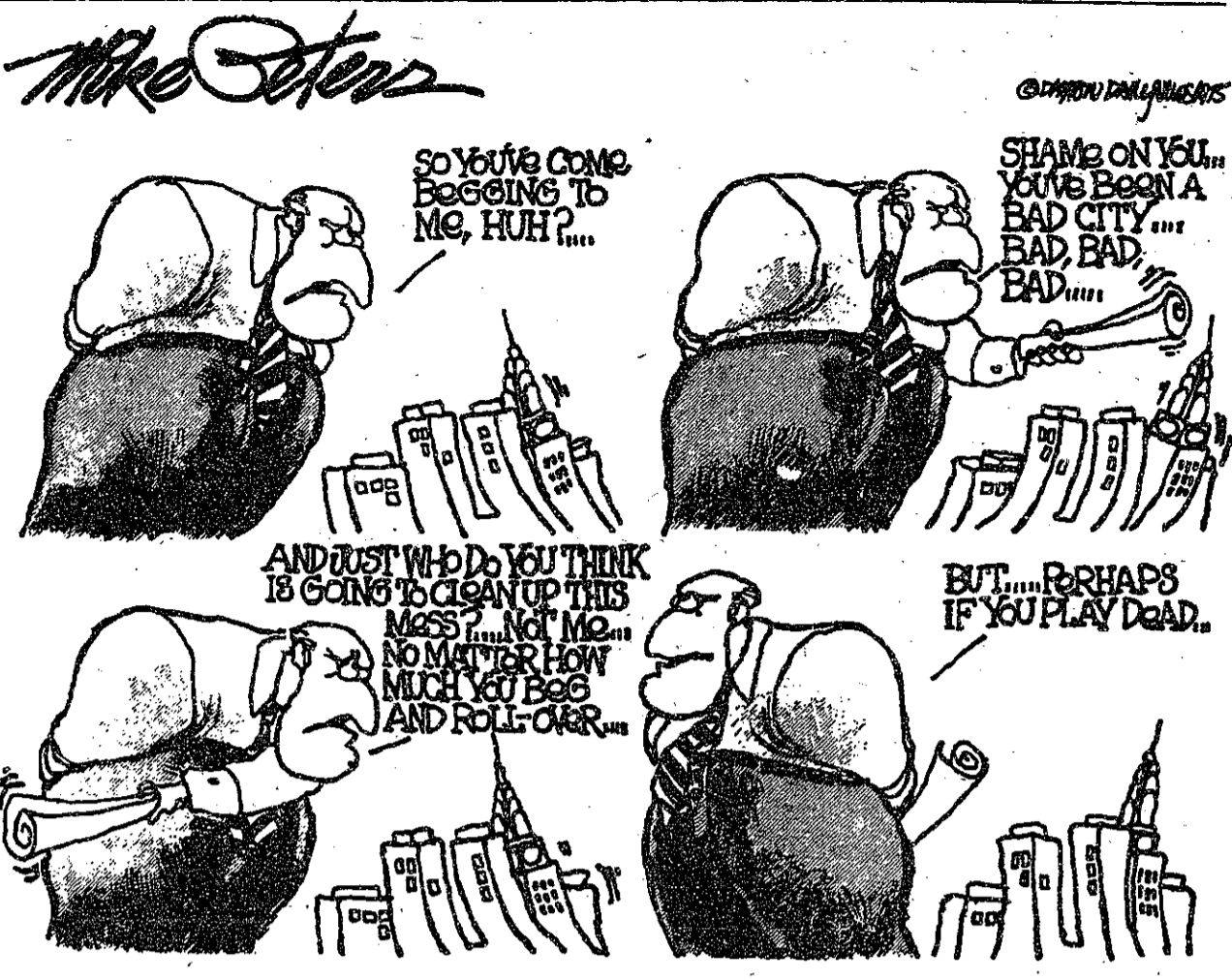
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# Kissinger wins Round One in '76 foreign policy

By Peter Peckarsky

In the biggest Cabinet-level shake-up since the Saturday Night Massacre, Secretary of Defense James Schlesinger and Director of Central Intelligence William Colby were fired, Secretary of State Henry A. Kissinger has been relieved of his responsibilities as staff director of the National Security Council, and Vice President Nelson Rockefeller has removed himself — allegedly voluntarily — from consideration as President Ford's running mate in 1976.

Unconfirmed reports in the wake of the Sunday Morning Massacre are that Schlesinger will be replaced by White House Chief of Staff Donald Rumsfeld, Colby by US liaison officer to China George Bush, and Kissinger by his NSC deputy, Air Force Lt. Gen. Brent Scowcroft. Schlesinger and Colby have reportedly refused offers of other posts in the Ford Administration.

The motives for and impacts of these changes are best analyzed in terms of the major national security and foreign affairs issues facing the nation today, with the added context of the current presidential race. In a few words, the relevant issues are detente with the Soviet Union, the explosive Middle East situation, and the scandals of the intelligence community.

Detente seems to be the most important issue involved, since Schlesinger was involved in a thinly-veiled policy dispute with Kissinger over such questions as whether the Russians had abided by the terms of the first Strategic Arms Limitation Treaty and whether another such agreement should be concluded along the lines of the December, 1974, Ford-Brezhnev Vladivostok pact.

Schlesinger felt that the Russians had cheated on the first treaty, and that the US should take a tough bargaining stance in the current talks. Schlesinger was also pushing development of a strategic "cruise" missile which would have immensely complicated formalization of the Vladivostok accord. In bureaucratic terms, Secretary Schlesinger was a threat to Secretary Kissinger's domination of national security affairs because Schlesinger was one of the few Administration members with the intelligence and inclination to formulate policy arguments

contrary to Kissinger.

The final straw for Schlesinger may have been his mishandling of the Congress in last week's unsuccessful effort to restore large sums cut from the defense budget. Several months before he assumed the presidency, Vice President Ford let it be known that the Secretary's poor handling of congressional relations might be cause for his dismissal under Ford. When he became President, however, Ford apparently reconciled himself with Schlesinger — until this week.

Colby has also crossed swords with Kissinger, mainly over what Kissinger felt was Colby's too-honest testimony before congressional committees investigating the intelligence community abuses — abuses which might lead to criminal prosecution of Kissinger, among others. Schlesinger also angered Kissinger in relation to the intelligence scandals, since he requested, during his short term as Director of Central Intelligence a full internal report on alleged violation of the CIA's charter. It is reliably reported that this report, the first step towards uncovering the whole intelligence scandal, served as the basis for the December, 1974, New York Times article which triggered the current investigations.

It was known several months ago that Colby was on his way out, but the expectation in Washington was that he would be removed after all investigations were completed. His replacement was to be a person of independent standing who had no background in intelligence work, and the job was reportedly offered to Elliot Richardson, who refused it. Bush fills the bill in Ford's apparent attempt to restore the nation's respect and confidence in the intelligence community. Kissinger has come under fire for maintaining the dual role of Secretary of State and National Security Advisor to the President. One of those reported to be leading the secret — and unsuccessful — attacks was Ford staff director Rumsfeld. The anti-Kissinger forces may have won a battle when testimony last week revealed that the NSC's "40 Committee" — the select group which must approve all US covert operations abroad — had not met for two years, thus prompting Kissinger's re-

moval from the NSC post.

Gen. Scowcroft, however, is Kissinger's hand-picked deputy and is considered "Kissinger's man." With Scowcroft heading the NSC staff, Under secretary of State Joseph Sisco on the NSC's 40 Committee, and Kissinger's own statutory seat on the NSC, the Secretary's control over the NSC's operations will probably not be lessened. Kissinger's removal from the NSC post thus has the dual effect of removing a political issue which ex-California Governor Ronald Reagan had been using against Ford without diminishing Kissinger's power or his effectiveness in keeping the lid on the Middle East situation.

The procedures for Ford's Massacre conforms with the President's Sunday morning announcement of the Nixon pardon, aimed at making the news public and quickly covering it with something else. Had Kissinger been stripped of his NSC post without the related Schlesinger/Colby announcements, the message would have been very different, signaling Schlesinger's victory over the Secretary of State. For public relations, therefore, the announcements came simultaneously.

The impact of these changes are still being assessed. Paradoxically, one of the main Kissinger/Ford goals — clearing the way for SALT II agreement — may have been hurt by their move. While the Russians may approve of the changes, Sen. Henry Jackson, D-Wash., a staunch friend of Schlesinger, may now be able to reduce the chances of Senate ratification of the treaty to the vanishing point.

In terms of domestic politics, Ford has hurt himself with the right wing of his own party by sacking Schlesinger — a Reagan favorite — and Colby. The Rockefeller removal, coming within 24 hours of the leaked news of the Massacre, is apparently expected to soften the reaction of the right wing, which has been calling for the Vice President's removal ever since he took office. The Rockefeller step, which involves a high-visibility political issue of long standing, can be expected to outweigh the Cabinet shifts which are now abstract and harder to assess.

Abroad, out NATO allies and the Chinese, all of whom view

detente with skepticism, will not be enthusiastic over the removal of the one effective balance to Kissinger within the administration. The cool reception Kissinger got when he visited China recently — relieved only by his cordial meeting with Chairman Mao — was largely due to Chinese disfavor of detente. Society leader Brezhnev, on the other hand, probably will see the changes as an advantage, since the ailing leader badly needs an agreement on SALT II before the Communist Party Congress next February.

The clearest impact of the changes, of course, is to magnify the power of Kissinger, the ap-

parent mastermind behind the manipulations. Kissinger himself has tried to deflect attention by pushing the story that the moves were Ford's reaction to the Reagan threat — a backwards view of the matter, since Reaganites would prefer to dump Henry and keep Schlesinger. Whether Kissinger will remain effectively in command of NSC and still exercise his broad powers over the national security establishment remains to be seen, but in the first round, the Secretary was definitely the winner.

(Peter Peckarsky '69 is a Washington columnist for The Tech.)

## Letter

### Closing the Gaps

To the Editor:

At the risk of beating a dead horse:

Jesse Abraham is entirely correct in objecting to the name-calling used in Mr. Hampton's column. Unfortunately, this response relies heavily on another technique of poor debate — that of reduction to absurdity.

Mr. Abraham argues his case on the basis of a proposal to admit grossly unqualified students to MIT, such as those academically at the 7th grade level. He is quite right that MIT is not in a position to help these students; however, since no one is proposing that such a thing be done, his arguments are for naught.

That a certain minimum standard of academic achievement must be required for admission to MIT is clear to everyone. Mr. Hampton assumed this to go without saying; apparently he should have been more explicit. The issue here is of students who are weak in certain areas, which can be made up by individual study or by such programs as MITHELP and Interphase. There is a certain cost to such programs, granted, but they do not amount to the extensive teaching of high school subjects to which Mr. Abraham alludes. It is merely a "patching up" process that is as minimal as the term implies.

It has long been the policy of MIT to admit students whose backgrounds need such patching,

and it is a policy which is applied regardless of race. MIT is full of students who did not happen to live in the right school district, who had to make up deficiencies in their preparation. The biggest problem encountered in such cases is that of falling a semester behind the "standard track" in a subject or two, where they have plenty of company from the Grosse Pointe-Shaker Heights crowd.

In short, given a certain minimum standard, minor deficiencies fast become irrelevant. Taking this into account, applicants from inferior high schools are no less qualified than their equally intelligent counterparts from better schools. It most certainly is a matter of equality to slight such differences in favor of more relevant criteria, given that the differences are so minor and easily remedied. The affirmative action goals come in with active recruitment of blacks, money devoted to free trips to Cambridge for minority applicants, etc. If you want to disagree with that, go ahead, but I think it is entirely justified.

Paul A. Martin '78  
Oct. 29, 1975

The Tech welcomes Letters to the Editor. Typed letters are preferred. Letters must be signed; names will be withheld upon request. Send letters to The Tech, W20-483.

# NOTES

\* The Backgammon Club will hold an organizational meeting on Friday, Nov. 7, in Room 2-090 at 4pm. For information, call x3-7579 and ask for Jeannie or Emden.

\* Helena McDonough, a nurse and midwife in the MIT Medical Department will speak on "Services in the MIT Medical Department for Women" Wednesday, Nov. 5 at 12:15 in 10-105. The talk is being sponsored by the MIT Committee for the Right to Choose.

\* A Putnam Exam review session will be held Tuesday, Nov. 4, at 5pm in Room 2-139. Prof. Orszag will discuss topics from analysis.

\* NSF Graduate Fellowship re-application forms are now available in the Graduate School Office, Room 3-136. The deadline date for final applications is Dec. 1.

## classified advertising

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\* The Harvard Law School Forum will present Ralph Nader and Mark Green speaking in the Ames Courtroom at the Harvard Law School at 8:00 tonight. Open to the public. Tickets \$1.50.

\* The Black Rose/Black Circles Lectures will present Paul Breines, speaking on "Anti-Authoritarian Communism in Germany, 1910-1930," Friday night, Nov. 7, Paul teaches history at Boston College and is a member on the editorial group of *Telos*. He describes himself as "a veteran in the struggle against revisionism, opportunism, vanguardism, classism, sexism, elitism, racism - you name it." If you have further questions contact John Hess at 288-1646.

\* Wellesley College Fall Weekend has been scheduled for Friday-Sunday, Nov. 7-9, with the following events planned: Friday: 4:30-6:30 - TSIF Happy Hour at Schneider; 9:30 - Vice President's Mixer at Tower Court; 10 - Coffeehouse with *Beckett* at Schnieder. Saturday: 12-4 - Scavenger Hunt, with teams of up to six people competing for prizes, starting at the President's House; 8:30-12 - Sadie Hawkins Dance, Ladies Choice all night, at Alumnae Hall; 10:30 - Occult Night at Schneider; 11 - Cabaret, a semi-formal dance, in Ethos; 11pm-5am - Films in 112 Pendleton. Sunday: 12 - Log Chopping Contest at Schneider Tennis Courts; 12-5 - Society for Creative Anachronism Tournament at Jewett MIT bus stop field; 2-4 - Jitterbug Workshop at Alumnae Hall; 6:30 - End-the-Week-end Bonfire, bring your own marshmallows, Schneider Tennis Courts.

\* Tickets to the Boston Ballet's Nov. 6, 7, 8, and 9 performance are now available at the TCA office, Room 450 of the Student Center. Students with id's may purchase the tickets at a \$3 savings on the \$12.50 and \$10.50 tickets, and a \$2.50 savings on the \$7.00 tickets. The performance will feature the world premiere of the contemporary "Carmina Burana," a medieval spectacle choreographed by Lorenzo Montreal and accompanied by the Master Works Choral.

## Theater

# Habeus Corpus - a stiff?

By Sandy Yulke

For the last several years, the British theater has been doing its bit for the balance of payments by exporting their most successful productions to the US. *Habeus Corpus*, now at the Colonial on its way to Broadway, is the latest of these, but I fear that it will not see the success of its predecessors.

I don't know what it is about British humor, but half of it strikes me as simply not funny, but macabre. Their taste for black humor seems unlimited, and only increases as their economic and social situation darkens. The comedy that results from this just doesn't come through, or as Mrs. Swabb, the cleaning woman/narrator of the play says, "It looks happy to me, but then again, I'm a behaviorist."

That is the feeling that I got from the play. It seemed as if it should have been much funnier than it was, showing great promise at some moments, only to drift off into semi-tragic, pathetic self examination.

The disappointment was es-

pecially acute, since the play has one of the best casts to perform in Boston this year. Heading it is veteran Donald Sinden (Dr. Wicksteed). As the beleaguered middle-aged physician who has ignored his wife for years and is suddenly filled with lust for a sweet young thing who happens into his examining room, he tries to maintain some coherence in his role, but is constantly thwarted by the author, who has him reciting pseudo-philosophical laments, in rhymed verse, at every other turn. The other characters - Rachel Roberts (Mrs. Wicksteed), his ignored and frustrated wife; Jean Marsh of *Upstairs, Downstairs* fame (Constance Wicksteed) as the spinster sister; Celeste Holm (Lady Rumpers) as the last bastion of the British empire - are more straightforward and play their parts admirably.

The best performance is delivered by "cleaning lady" June Havoc (Mrs. Swabb). She bustles in and out, chanting "Hoover, Hoover, Hoover" as she moves her vacuum cleaner over the stage. In the tradition of

Moliere, she is the witty servant, the only one who really knows what's going on, and the true manipulator of her masters.

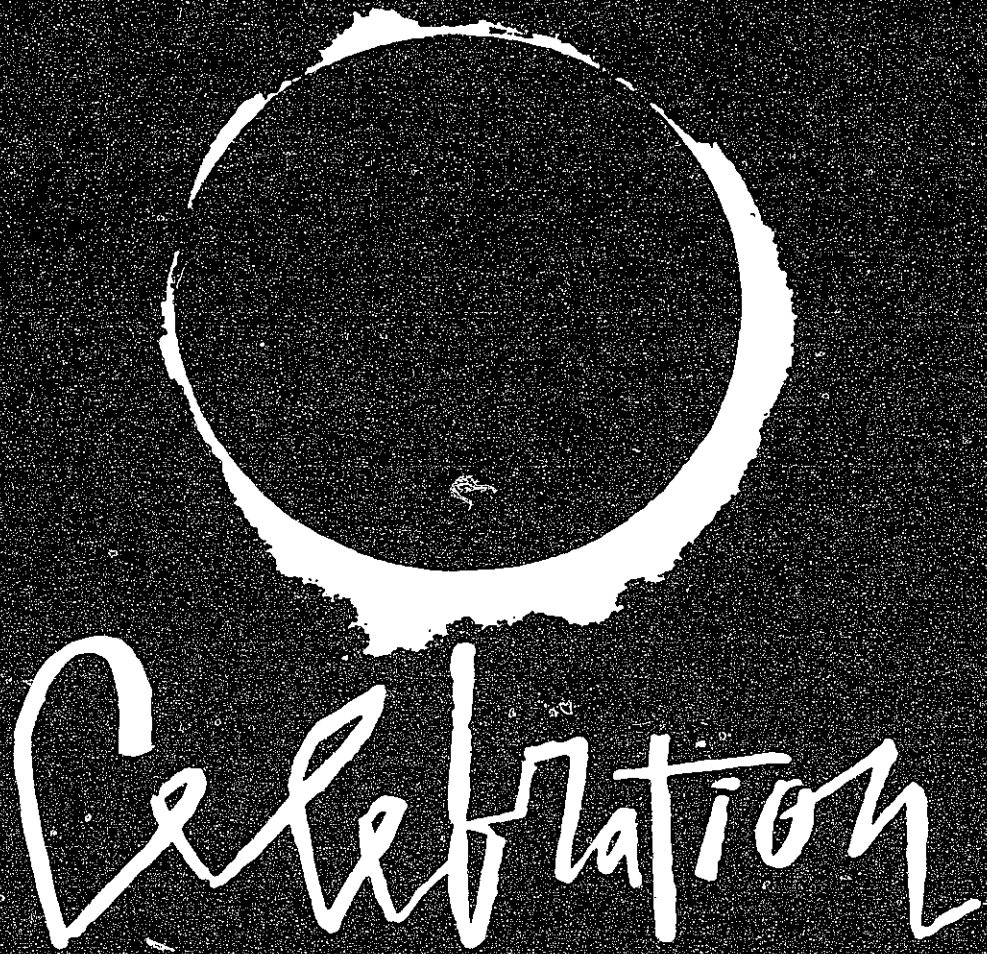
Despite all these excellent performances, and many genuinely funny passages, the play as a whole just doesn't hold up. The author, Alan Bennett, has a gift for comedy - amply demonstrated in his first successful endeavor, *Beyond the Fringe* - but that seems somehow to get lost here. It seems as if he's watched too much Monty Python and read too much Satre. To borrow from Bennett's style: if they're your cup of tea, so this play may be.

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## NOTICIAS DE CUERVO

# TRAVEL TIPS TO MEXICO

With vacation time fast approaching, many of you will no doubt be traveling to Mexico. Some of you might even be coming back. Here are some helpful hints.

1. A man on a burro always has the right of way, unless he appears to be a weakling.
2. In local cantinas, pouring a shot of Cuervo down a man's collar is not thought to be humorous.
3. Falling onto a cactus, even an actual Cuervo cactus, can be a sticky proposition.
4. It is tough to find hamburger rolls in the smaller towns; it's best to bring your own.



# AI head Winston examines field

(Continued from page 3)  
where serious applications were to be undertaken.

Some of this involves the domain of physical robotics, that is, systems that can see and feel their environment, and do such things as disassembling small mechanical things, and working on a miniature scale. For instance, one of our recent projects involved a program which looks at integrated circuits. We think that this area will help bring about a great increase in productivity of technology in general. Practical technology is extremely important to the country first because of the need to keep people out of inhuman jobs, but also because there are economic arguments that suggest that if we don't have a strong productivity technology, we won't be able to compete with other countries, such as Japan, that do.

One thing that has turned us on in the last year is the notion of creating a computer-based principle system — a combination of secretary, pedagogue, information retriever, library, note-taker, and scheduler. The notion is of providing each person with a set of intellectual

tools comparable with technological tools such as the pocket calculator, but with powers multiplied by 100.

As for biomedical applications, in the area of diagnosis, for example, computers have become increasingly good at understanding symptoms, prescribing drugs, examining electrocardiograms, and a variety of other medical functions.

**The Tech:** What advantages does the student populace gain from AI at MIT?

**Winston:** I think we suffer to some extent from overpopularity. We tend to be a science for which there is a great deal of immediate attraction. It is a universal phenomenon in which people are quickly interested. We do the best we can, and hope that programs will be made available for more students. Of course there is always a need for increased funding. We are on the verge of a hardware revolution as well as an AI revolution in which inexpensive computation will become available to everyone. That is the solution to the involvement of undergraduates in this area.

**The Tech:** How do you feel about the world's need for AI?

**Winston:** I personally find AI to be an undeniably fascinating field to be involved in, partly because of its potential for applications and partly because of the philosophical implications of eventual success in producing really smart machines.

I think that AI is something that will have a pervasive effect on society and social system. It's something that people must know about and have opinions on if we are to make informed choices for the future.

**The Tech:** Are you certain of the eventual success of AI?

**Winston:** Well, certainly one must have faith in one's work, and if we can go on our track record, we can look confidently toward the future. If one looks at the learning curve of AI over its twenty years, the achievements have been truly outstanding. Certainly fifteen years ago no one conceived that computers could be made to have a simple dialogue with each other, or could be taught to play games.

There are still a great many mysteries to be unravelled, so we have a guarantee that this project will be important and relevant for many years to come.

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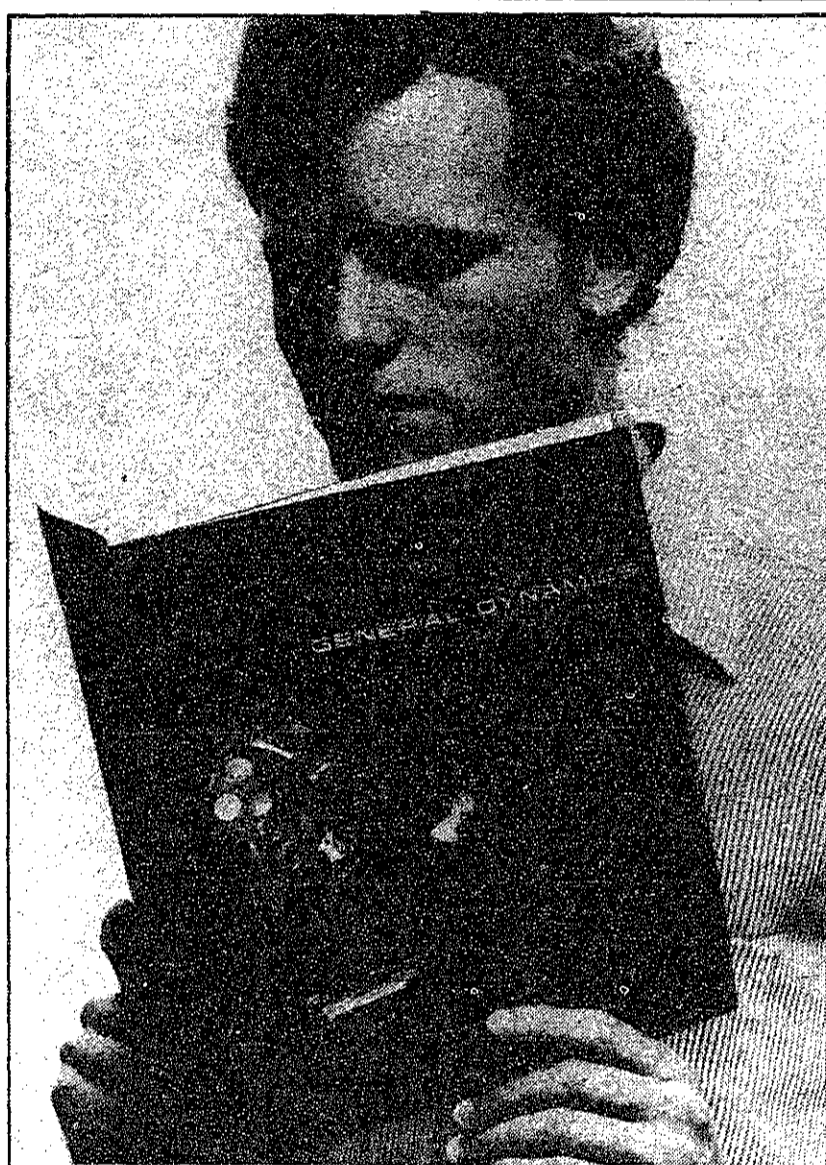
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# Sports

## IM soccer standings:

A-league	W	L	T	PTS	C3-league	C4-league
Hellenic A.C.	1	0	3	22	MacGregor F-G	3 0 1 27
Math	1	0	3	22	Burton 2	3 1 0 26
Africans	1	0	3	21	Stud. Hse/NRSA	2 2 0 18
Aero/Astro	1	1	2	16	PKT	1 1 2 16
Nuclear Eng. 'A'	0	3	1	7	Bexley	1 2 1 11
					Burton 3	1 3 0 7
					MacGregor C	4 0 0 35
					Burton 1	2 1 1 22
					Conner 3	1 1 2 16
					Russian/New	1 2 1 13
					MacGregor H	1 3 0 10
					McCormick	0 4 0 2

B-league	W	L	T	PTS
1169	3	0	1	25
Sigma Chi	2	1	1	20
Food & Nutrition	2	2	0	17
Baker 'B'	2	2	0	15
MacGregor E	2	2	0	15
PLP	0	4	0	1

B2-league	W	L	T	PTS
Chemical Eng.	3	0	1	30
LCA	3	1	0	27
Chi Phi	2	2	0	15
Economics	1	2	1	10
TDC	1	3	0	8
Mech. Eng.	1	3	0	7

B3-league	W	L	T	PTS
FIJI	4	0	0	31
East Campus	3	1	0	25
AEPi	2	2	0	17
Nuclear Eng. 'B'	2	2	0	16
DU	1	3	0	8
Biology	0	4	0	1

B4-league	W	L	T	PTS
SPE	3	0	1	26
Number Six	2	1	1	17
DTD	2	2	0	15
Theta Chi	1	1	2	14
PBE	1	2	1	11
PDT	0	3	1	3

C1-league	W	L	T	PTS
SAE	4	0	0	35
ZBT	4	0	0	31
KS	2	2	0	15
PKS	2	2	0	15
ATO	0	4	0	1
PSK	0	4	0	1

C2-league	W	L	T	PTS
Theta Xi	4	0	0	33
MacGregor B	2	1	1	18
Burton 5	2	2	0	16
Senior House	1	3	0	7
Baker 'C'	0	3	1	4

## Sporting Notices

This year's Class Day competition will be held Saturday, Nov. 8. There will be a meeting Friday at 7:30pm in the Boathouse Lounge to draw lanes for boats in Saturday morning's heats. All crews must be represented, but one individual can represent more than one boat.

The IM Cross-country meet will be held this Sunday, Nov. 9. Registration will begin at 10:30am, with the race to start promptly at 11.

Team entries (at least four to a team) are due in the IM Cross-country mailbox (W32-121) by 5pm tomorrow. Individual entries will be accepted until 10 minutes before starting time.

IM Hockey team entries and rosters are due by 5pm Friday in the IM Hockey mailbox (W32-121). Late entries will not be accepted.

There will be a referee's clinic at 7:30pm Wednesday, Nov. 12 in the West Lounge of the Student Center.

The 1975 IM Wrestling tournament will be held Saturday, Nov. 15 in the duPont Wrestling Room. Team rosters are due by 5pm Monday, Nov. 10, in the IM Wrestling mailbox (W32-121).

There will be a seeding meeting at 8pm Tuesday, Nov. 11 at Sigma Alpha Epsilon, 484 Beacon Street, Boston. An athletic chairman or representative from each team is urged to attend.

IM Cycling entries are due in the IM Cycling mailbox (W32-121) no later than 5pm Friday. Individual entries on race day will also be accepted.

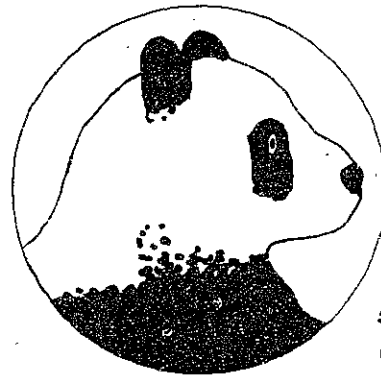
This year's event will be a rally out to Wellesley on Tuesday, Nov. 11 beginning at noon. Team entries (three cyclists per team) will be accepted, but only living groups will compete for the team championship.

In case of rain, the race will be held, Sunday, Nov. 16 at noon.

Perceptive, imaginative students needed to contribute questions to new

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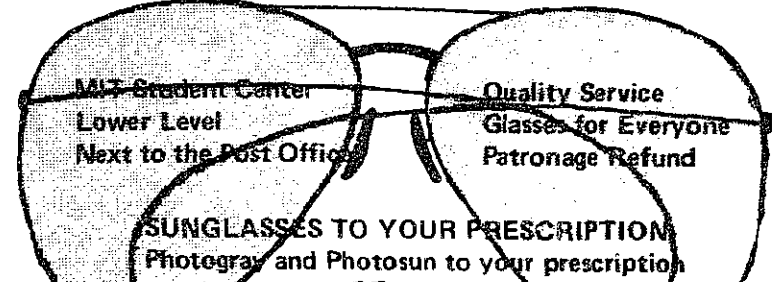


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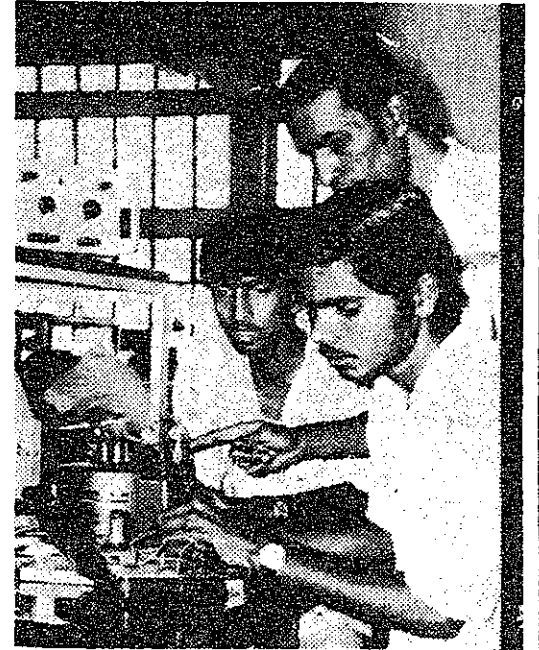
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Hellenic (white shirts) and African players battle for the ball in Sunday's IM A-league soccer final, won by the Africans, 2-1.

Tom Klimowicz

# Sports

## Harriers run strong sixth in Eastern championship

By Dave Dobos

Racing to its best performance in four years, the MIT cross country team streaked to a sixth place finish in the Eastern Intercollegiate Championships here at Franklin Park last Saturday. The superior Engineer effort earned the squad a berth in the National Division III Championships on November 15.

Leading the MIT harriers was junior Frank Richardson who ran one of his finest career races enroute to third place out of 118 competitors. His time of 24:45 was only four seconds behind that of Brandeis freshman Dom Finelli, the meet winner.

The Engineers broke their string of mediocre championship meet performances with an excellent team effort. The sixth place finish bettered last year's eighth spot (when MIT went 9-2 in dual meets) and was the Engineers' best since 1971 when they were fourth. The squad had to place among the top teams to qualify for the Nationals. For the second week in a row, freshman Barry Bayus sparkplugged the remaining scorers as he ran a personal best 26:16 for 42nd place. Chris Svendsgaard '78 closely followed Bayus in 26:21 (47th). Rounding out the scoring five were Jeff Baerman

'76 26:37 for 59th) and Steve Keith (26:40 for 64th.) Tom Clark '79 (74th in 26:54) and Courtney McCracken '76 (91st in 27:18) were MIT's sixth and seventh men.

Brandeis swept to its first Eastern championship with an astonishingly low score of 35 points. The Judges had runners placing first, second, sixth, eleventh, and fifteenth. The impressive style in which Brandeis took the meet enhances their chances for the team championship at the Nationals in eleven days.

With such a good race under its belt, MIT can look forward to what could be some outstanding performances in the New Englands this Saturday and in the Nationals a week later. After rising to the occasion Saturday, the team's confidence and morale will be high for these two final meets.

The junior varsity placed fifth in their race. John Krolewski '77 paced the Engineer effort with a 16:47 for 21st over the 3.1-mile course. Kim Eastman '79 and Rich Allen '79 also ran fine races for MIT, placing 27th (16:57) and 28th (16:58), respectively.

This Saturday MIT competes in the New Englands and the following week in the Nationals. Both races are at Franklin Park.

## Booters conquer Colby, 3-1

By Gregg Fenton

(Gregg Fenton '77 is the manager of MIT's varsity soccer team.)

The MIT varsity soccer team played a strong game Saturday to gain a 3-1 victory over Colby College. A very strong westerly wind combined with the low afternoon sun to keep play in the same end all game.

During the first period, Colby

had the wind advantage and kept the pressure on the Engineer net. However, MIT played a solid defensive game and allowed few close calls.

The MIT attack did make some headway upwind for a couple of chances and the first goal. Right wing Amalendra (Rajah) Arulpragasam '77 blocked a Colby defenseman's clearing kick and made a break-away pass to Steve Rice '77,

who fed Jan Krakauer '77 for a picture goal.

This lead was gained with five minutes left in the half but did not last long, as shortly after the ensuing kickoff, Colby forward Dave Gruber scored on a shot which bounced into the net after nicking the crossbar.

Eight minutes into the second half, Arulpragasam was uncovered near the Colby net. He headed a centering pass from Frieder Krups '77 into the far corner to give the Engineers a 2-1 lead.

While MIT continued to play well, occasional Colby chances kept the Engineers alert. With three minutes to go, a scramble in front of the Colby net led to another goal by Krakauer. A Colby score came just after the final gun, the game ending 3-1.

MIT played one of its better games overall in what has been a generally inconsistent season. Of special note were the jobs turned in by Arulpragasam and Krups. The Engineers' last home game is today at 3pm against Boston University.

### IM roundup

## Africans capture soccer title

By Glenn Brownstein

Two IM sports closed out their seasons this past weekend, with IM Soccer deciding A, B, and C-league champions, and IM Football naming all-star teams for a game that never took place.

The African Student Association captured the A-league "independent" soccer championship Sunday with a 2-1 victory over the 1974 titleholders, Hellenic Athletic Club. The winning goal was scored with only five minutes remaining in regulation time.

The Africans had taken the lead midway in the first half on a clean breakaway, but Hellenic had scored minutes later on a penalty kick. Thereafter, as the game remained scoreless, the possibility of a repeat of the 1974 spring season's four-overtime thriller loomed larger and larger (Hellenic had defeated the Africans then, 2-1).

This year's A-league semis could only be described as stormy and hard-fought. Hellenic, despite the loss of key forward Christodoulou in a fight with Math's Ed Christiansen G (who was also suspended from his game), battled Aero/Astro through two overtime periods, winning the following penalty kick contest, 4-3, to advance to the final.

The Africans then outdueled the weakened Math team, 3-1, to set up the final contest.

In B-league, Chemical Engineering downed FIJI, 1-0, at the 9:55 mark of sudden death overtime to win that championship. Chem. E. had topped 1169, 2-0, and FIJI had edged Sigma Phi Epsilon, 2-1, in Saturday's semis.

### IM soccer results:

#### A-league

Africans 6-3 Nuclear Eng. 'A'  
Aero/Astro 2-1 Nuclear Eng. 'A'

#### B-league

Chi Phi 1-0 Economics  
Nuclear Eng. 'B' 2-0 Alpha Epsilon Pi  
Delta Tau Delta 1-0 Phi Delta Theta  
Sigma Phi Epsilon 1-0 Theta Chi

#### C-league

Sigma Alpha Epsilon 2-0 Kappa Sigma  
Phi Kappa Sigma 2-0 Alpha Tau Omega  
Burton 5 Smokers 2-0 Baker 'C'  
MacGregor B 1-0 Senior House  
Student House/NRSA 7-1 McCormick  
Burton 2 2-0 Student House/NRSA  
Zeta Beta Tau 2-1 Phi Sigma Kappa  
Burton 2 2-1 MacGregor F-G  
Burton 1 3-0 Russian/New House  
Chi Phi 2-0 Mechanical Engineering

#### Playoffs

#### A-league

#### Semifinals

Africans 3-1 Math  
Hellenic A.C. \*1-1 Aero/Astro (OT)  
\*-Hellenic won on penalty kicks, 4-3

#### Finals

Africans 2-1 Hellenic A.C.

#### B-league

#### Semifinals

Chemical Engineering 2-0 1169  
FIJI 2-1 Sigma Phi Epsilon

#### Finals

Chemical Engineering 1-0 FIJI (OT)

#### C-league

#### Semi-finals

Theta Xi \*1-1 Sigma Alpha Epsilon (OT)  
MacGregor F-G 2-1 MacGregor C (OT)

#### Finals

\*-Theta Xi won on penalty kicks, 3-2  
MacGregor F-G 1-0 Theta Xi

### IM football results:

#### A-league

Sigma Alpha Epsilon 6-0 Lambda Chi Alpha

#### B-league

Beta Theta Pi 24-6 New III Stooges  
Theta Chi 2-0 Lambda Chi Alpha 'B'  
FIJI 'B' 12-6 Beta Theta Pi  
Chi Phi 1-0 Phi Delta Theta (forfeit)  
Metallurgy 19-0 Pi Lambda Phi

#### C-league

Held's Hackers 45-0 Senior House  
MacGregor 'C' 7-0 Baker 6th Dicks  
Bexley 19-0 Zeta Beta Tau  
BLOS 38-0 MacGregor A  
Sloan Bombers 45-13 Fenway House  
Jack Florey 34-0 Burton I  
MacGregor H 6-0 FIJI 'C'  
Theta Xi 12-0 Organic Chemistry  
SAE 'C' 13-0 Phi Kappa Sigma  
Phi Sigma Kappa 6-0 Baker 6th Dicks  
Third East 13-6 No. 6 Club (OT)  
Epsilon Theta 18-0 Baker Blowers  
NRSA/Student House 11-0 Burton 3rd Bombers  
Baskirbaiters 6-0 Alpha Tau Omega  
Burton 'J' Smokers 1-0 Economics (forfeit)  
Kappa Sigma 20-12 Tau Epsilon Phi  
MacGregor F 7-6 Navy  
Conner 3 13-6 Phi Sigma Kappa

#### D-league

Virjins 6-0 McCormick  
Phi Mu Delta 25-0 Theta Xi Superfishes  
Chelates 20-6 Baker Breakers  
Burton Smokers 'D' 20-16 WC4 Players