

3 courses look for heads

By Bert Halstead

Three of MIT's twenty-four departments will have new heads next fall. The Department of Urban Studies and Planning has completed the process of choosing a new chairman, and the Departments of Architecture and Mechanical Engineering should choose new heads by June.

"Search committees" in the three departments are at work considering candidates for nomination to the Deans of the Schools involved, following decisions to resign made by the heads of these departments earlier this year.

The search committee of the Department of Urban Studies and Planning has finished its work, and has sent its list of recommendations to the MIT administration. The leading candidate has been notified, according to Professor Lloyd Rodwin. Rodwin declined to disclose the name, for fear that it might upset the "delicate negotiations" in progress, but said, "There is no reason to think there will be any problem."

In the Department of Mechanical Engineering, "the search is on," according to

Associate Dean of the School of Engineering James D. Bruce. The current department head, Professor Ascher H. Shapiro, has held that post for eight years now, and is resigning so he can devote more time to teaching and research. The search for a new chairman "is being handled by the Dean of Engineering," according to Bruce, with advice from the department's search committee, and "should converge within two to three weeks."

Professor Stanford Anderson, chairman of the search committee of the Department of Architecture, says the primary criterion for choosing the new department head is "excellence within his or her own area." Next, he should have administrative capabilities and be willing to participate in the governance of the School of Architecture and Planning.

Search process

The search committees, composed of faculty within the departments and representative from the Schools, began work on their search five months before the scheduled resignations of the current department chairmen in June. After considering

candidates at MIT and at other schools, the search committee in each department reports to the Dean of the School involved and to President Wiesner with a list of candidates for the post.

The MIT administration then approaches the first candidate. If he is unavailable, MIT will attempt to hire the next candidate, and so forth.

Considerations

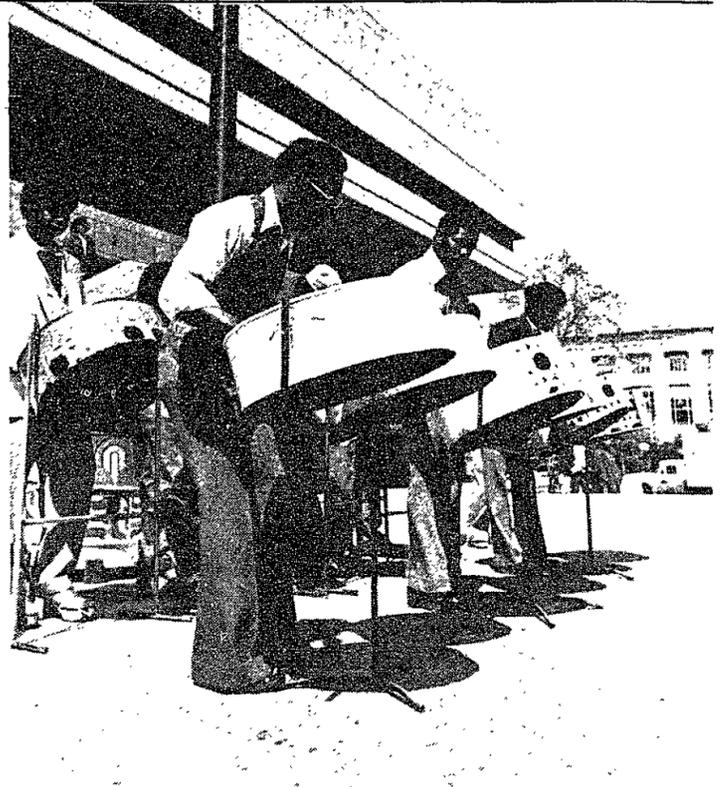
Rodwin, who is in his fourth year (Please turn to page 5)

In the page 1 story entitled "Rush rules imposed; Dormcon votes May 8th," published May 7, *The Tech* incorrectly reported the rules adopted by the Dormitory Council:

1) Fraternity members will be allowed to come to dormitories to find freshmen, must identify themselves, their fraternity, and the freshman that they are looking for.

2) Dormitory social events will be allowed to admit non-residents, but they can only be advertised in the dormitory sponsoring the events and in a central location for freshmen - probably in the Student Center.

The Tech regrets these errors.



The Silver Star Steel Drum Band made their third annual appearance here last Saturday afternoon in a concert on the steps of the Student Center. The event, sponsored by Baker House and the Student Center Committee, included free beer.

Photo by Tom Klimowicz

Student Center gets new videobeam TV

By Dave Danford

Packed into a small room in the Student Center standing in the doorway, peering through the curtained windows, a mob of fifty or more watched the Bruins play on a new and very different TV set Sunday afternoon.

The special attraction, other than the Bruins, bringing them to the television lounge was the 4 1/4 x 5 2/3 foot screen of the Videobeam projection color television.

According to former Student Center Committee Chairman Steve Wallman, the television was placed in the TV lounge about three weeks ago. Wallman said that it was purchased from Advent Co. for \$2495 and is presently in the lounge on a six-month money-back trial basis.

Wallman pointed out that a new conventional color TV for the lounge would have cost over

\$800 anyway, so the committee decided to try the more spectacular Videobeam TV to see if it was practical.

"The picture is sensitive to fingerprints on the screen and to fooling around with the projector," said Wallman. "We're hoping that people will obey the signs and stay behind the roped-off projection area."

THE NBA championship series was perhaps the event that first brought hordes of people to see the Videobeam. In view of the student reaction to basketball on the big screen, Wallman characterized the new TV as "an overwhelming success."

One student who claimed not ordinarily to be a pro basketball fan commented, "The TV made watching a basketball game exciting. People were screaming and jumping up and down." Praising the realism of the system, he continued, "It even smelled like a gymnasium."

A computer that can talk?

A new, talking computer has been developed by engineers in MIT's Research Laboratory of Electronics (RLE) which can pronounce any word or string of words in the English language.

The remarkable thing about this computer is that it need not have ever seen a word before to be able to pronounce it; the computer applies thousands of learned pronunciation rules to pronounce each word in much the same way a person does.

When a word is typed into the computer, it first pauses for several seconds to analyze it. Across its display screen flicker the parts that the word is broken down into, and the complex pronunciation rules that are applied to decipher it. Then, from a speaker atop the computer, a flat, eerie-sounding voice pronounces the word.

Surprisingly, this voice is completely nonhuman in origin; it is produced by a model of the human vocal system which has been programmed into the computer. This vocal tract, developed by Dennis Klatt, a research associate in electrical engineering, receives information from the computer which tells it how to alter itself every

microsecond to create a speech wave.

The text-to-speech system was created by MIT engineers under the leadership of Jonathan Allen, Associate Professor of Electrical Engineering, as part of an overall effort at RLE to develop a machine to read to the blind.

According to the system's inventors two major problems had to be overcome in building this machine: 1) making a machine to recognize printed matter and change it to computer language; and 2) building a computer which would transform this information into understandable speech.

In creating this "talking computer," Allen and his co-workers steered away from a "brute force" method of teaching the computer to read. According to Allen, "we could have attempted to feed all the words in the English language into the computer's memory,

and instructed the computer to match each word in a text with a pronunciation."

This, he said, would not have been wise, however, because there are several hundred thousand English words, and because new words are continuously being invented. Allen added that "It would be extremely difficult and unwieldy to cram all the known words into a limited computer memory, and to attempt to keep up with the words that enter our language continually."

Allen believes that it is better to give the computer a basic understanding of the rules of pronunciation, so that the knowledge the computer has will be useful for a much longer period of time.

Almost all words are composed of a relatively few (approximately 11,000) atomic units or "morphs," which do not change over long periods. Using these morphs, a computer can

(Please turn to page 7)

Class size creates shortage of advisors

By Mike McNamee

The increase in the size of the class of 1978, along with a preference to advise fewer students on the part of the faculty, has led to a severe shortage of advisors for the freshmen that will be entering MIT in September.

According to Associate Dean for Student Affairs Peter Buttner, head of the Freshman Advisory Council, approximately 95 more faculty and staff advisors are needed if the FAC is to assign each advisor no more than his preferred number of advisees.

Buttner has sent a letter to the heads of the 24 departments, asking their cooperation in soliciting volunteers to advise next year's freshman class.

So far, Buttner told *The Tech*, 98 faculty and 62 staff have made firm commitments to serve as advisors. If each advisor is assigned the number of ad-

vises he has told the FAC he would prefer to have, this would only take care of 626 of the approximately 1000 students that will be entering this fall.

At the beginning of May last year, Buttner said, there was a shortage of 50 advisors. "We sent a letter to the department heads, and eventually word got around and we almost reached the preferred number." Buttner explained. "But there is twice as large a shortage this year, and it's two weeks later in the term."

Two factors at work

"While the number of advisor volunteers is similar to that for last year," Buttner said in his letter to the department heads, "the preferred number of advisees is smaller." Buttner explained that each faculty or staff member who volunteers to advise states how many advisees he

(Please turn to page 6)



Star Trek fans watch Captain Kirk — 4 times larger than life size — on the new Videobeam TV.

Photo by Tom Klimowicz

Myrdal decries 'cruel weapons'

A "cancerous growth" of the military going "beyond the bounds of reason" is threatening the world today, and can best be stopped by banning use of "excessively cruel and harmful" weapons, an arms-control expert told an MIT audience last week.

Dr. Alvar Myrdal, visiting Professor of Political Science, told the audience of the final Technology and Culture Seminar of the year, "The world we live in is becoming increasingly militarized and has gone beyond the bounds of reason."

Myrdal's talk addressed the topic, "An Era of Neo-Barbarism: Arms and Disarmament in a World of Power Politics."

The radical cure to spreading militarism, Myrdal said, "would be surgical: eliminate all military forces except for a minimum employed as police or border

forces." Such a cure, however, is "elusive and politically futile."

Myrdal characterized the present disarmament talks as "dismal failures." "Not one weapon has been disarmed. Weapon-makers who should be dismantling are increasing their capability to ever newer heights," she said.

Myrdal said that she saw two means whereby disarmament could still be possible: the setting of individual weapons bans by the countries of a specific region of the world; and "combining our current strivings towards disarmament with the work done by humanitarian's position from the point of view of disarmament, we can skip over some of the philosophical stumbling blocks that occur."

Myrdal stated that precedents for limiting weapons which are

"excessively cruel" already exist. "The Saint Petersburg declaration of 1868 clearly states: 1) 'The only legal object of war is to weaken the forces of the enemy; 2) To do this it is sufficient to remove the enemy from action. 3) Anything which would uselessly prolong the agony of men or make death inevitable is illegal and against humanity.'"

Myrdal also cited the 1907 Hague Convention as stating "The rights or means to harm an enemy are not unlimited."

The same document also contains a provision that "attacks or bombardments on towns or villages are illegal." Myrdal concluded that agreement on the

(Please turn to page 5)

Fewer engineering grads, higher salaries expected

By Mike McNamee

MIT is resisting a general trend towards decreasing enrollments in engineering at school across the nation, with the Institute's total enrollment in engineering holding steady, and some fields increasing the number of graduates.

Figures published by *Engineering Education* magazine in April (see chart, p 3) show a nationwide trend away from engineering in the last two years, making an estimated gap between the supply of engineering graduates and the demand for them of at least 10,000 students.

MIT, however, has no problems with falling enrollments in engineering, according to Associate Dean of the School of Engineering James D. Bruce. "We have not had any large fluctuations in total engineering enrollment at MIT," Bruce told *The Tech*. "From department to department, however, there are all sorts of changes."

MIT was the one college cited by *New York Times* education reporter Gene Maeroff in a recent article on the engineering education situation as having "a steady level of enrollment." Maeroff cited representatives of the Engineers Joint Council predicting higher starting salaries for graduates in the next couple of years.

This trend towards a better job market and pay for engineering graduates is in marked contrast to the situation in the early '70's, when the closing of the space program and economic problems in the aerospace industry caused widespread - and highly publicized - unemployment in engineering.

"The unemployment situation in engineering was real, and it had a definite effect on enrollments that we're still seeing today," Bruce said. "Many people were scared away from engineering by the situation."

(Please turn to page 3)

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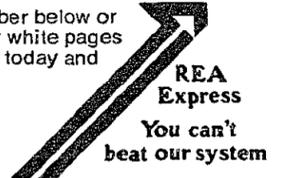
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1974 Awards Convocation held

The following people received awards at MIT's Awards Convocation in Kresge Little Theatre last Thursday:

The William L. Stewart, Jr. Awards
 Okon Mfon Amana, G
 David Mark Bernstein '74
 Eric Lee Bogatin '76
 Val Matthew Heinz, Jr. '75
 Charles Robert Kenley '75
 Michael Gregory Kozinetz II '75
 James Albert Moody '75

Paul Andrew Pangaro '74
 Theodore Shifrin '74
 Patricia Ruth Callahan '75 and
 Robert Eugene Ice '75
 Robert Lee Hunter, G and Steve
 R. Taylor '73
Certificate of Appreciation
 Robert Dennis McCadden

The Class of 1948 Award
 William David Young '74

The Admiral Edward L. Cochrane Award
 Edward Joseph Hanley, Jr. '74

The Eastern College Athletic Conference Merit Medal
 Lawrence David Bell '74

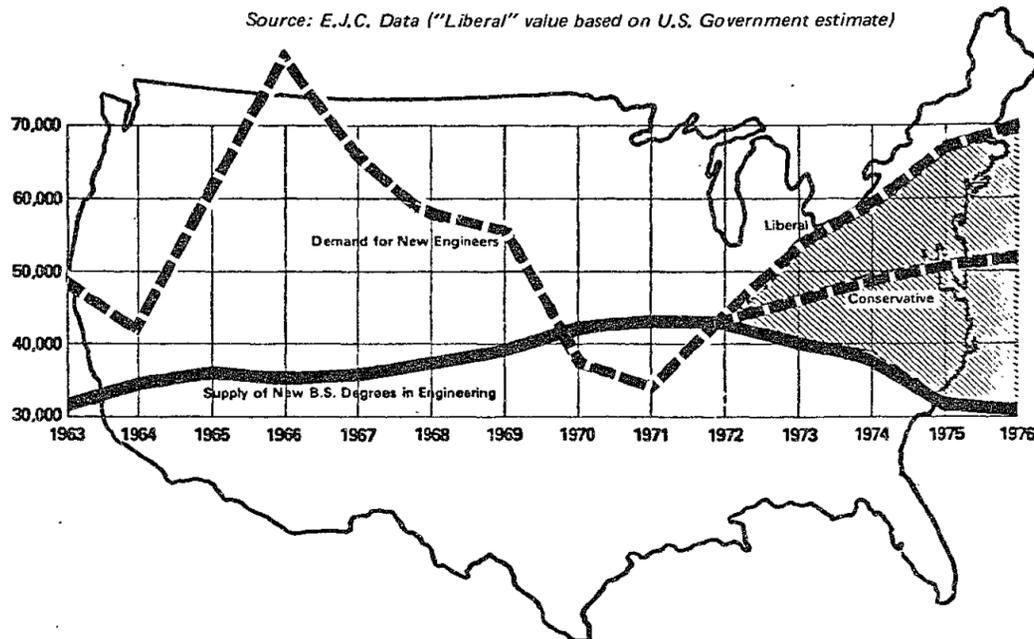
MITAA Pewter Bowl Award
 Shelley Faith Bernstein '74

Varsity Club Award
 Johan Georg Akerman '77

Special Achievement Award - Athletics
 John Russell Kirkland '74
 (Please turn to page 6)

'71 slump cut enrollments

Source: E.J.C. Data ("Liberal" value based on U.S. Government estimate)



U.S. Engineering Manpower Supply and Demand

(Continued from page 2)
 We've found here that parents are far more worried about it than students."

The sharp decrease in employment of engineers was well-publicized, another factor that influenced enrollments. "It was one of the first times since the Depression that a large group of professional people was thrown out of work, *en masse*," Bruce said. "Naturally, it got a lot of attention." People don't think that professionals have employment problems."

"I suspect that a lot of the people layed off in the '71 crunch were people who were not productively employed, and these were the people who found it hardest to get new jobs," Bruce continued. He added that he had not seen too many articles on the rising demand for engineers.

Internal trends

Bruce said that he was mainly interested in local, internal trends in engineering education at MIT. The growing number of students who are using engineering as a stepping-stone to another profession, for example, was a development that "will have a large effect on the engineering profession."

"The applicant pool at MIT is changing, with more and more students coming here to get a sound technical background before entering some profession," Bruce said. Some MIT faculty have resisted this change, he added, noting that "they feel that we shouldn't 'waste' a spot on a person who is ultimately going on for a medical degree, and should use our resources to train professional engineers. They're worried about the impact on their own discipline."

Professor Wilbur Davenport, new Head of the Electrical Engineering Department, said that he had noted a trend of students "going into things other than EE or engineering." "I think EE is second in the Institute in medical school applications," Davenport said. "This department has always had a history of graduates going into other technical fields. Now they're also going into non-technical fields."

MIT atypical
 Davenport said that he doubted that the trends at MIT are the same as those across the country. "MIT is a special place," he said. He pointed out that students at many engineering schools must "enter" engineering during the freshman year, and that it is difficult to get into - or out of - engineering as an upperclassman. "I

have a feeling that this impacts very heavily on students here," he said. "Many of them don't even realize how different the situation is here from the rest of the country." Many EE majors "considered physics, math, and EE at the same time before deciding on EE," Davenport said.

Engineering at MIT is almost certainly at the top tier of school's across the nation. As Bruce said, "No one's come up to me and said, 'Our enrollment is holding up better than yours.' We're darn close to the top."

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In Case of Insomnia — MIT awards ... what awards?

By Storm Kauffman

Another awards ceremony has come and gone and the majority of the MIT community has taken it in stride, without batting a gnat's eyelash.

Most students have little idea of what awards exist and what they mean, and many care even less about who gets them. This is a sad situation, both for those who receive the prizes and for those who never hear of winners.

First of all, most of the fun (glory, excitement) in winning one of these awards is getting congratulations from friends and strangers. Presumably, the individual has worked long, hard, and unselfishly in order to become eligible, and some sort of fuss about winning is certainly in order. Instead, the best that can be expected is an announcement in *The Tech* of the winners (their names probably misspelled) with little publicity of just what they have done to deserve this high honor.

According to Associate Dean for Student Affairs Robert Holden, (a member of this year's Compton Committee) nominations for the awards (specifically, the Comptons and Stewarts) are solicited from the community and "anyone can make a nomination." This is not a well-known fact.

Additionally, the committee in charge of determining who gets the Comptons — an arm of the Committee on Student Environment (CSE) — does not make public the list of nominees. Even the minor recognition of being nominated for one of these prestigious goodies would be appreciated by those dedicated souls.

Just what are these "awards" I've been discussing? The whole gory list can be seen on page . As for the Big Two, their descriptions can be found in the General Catalogue.

The Karl Taylor Compton Prizes are "awarded in recognition and encouragement of outstanding contributions in promoting high standards of performance and good citizenship within the community." It does not sound very difficult to cop one of the silver teapots that is the Compton, yet these presentations seem to be invariably stained by what one MIT woman termed "blatant tokenism." Apparently, it has become obligatory to name at least one woman and one black, which is certainly fair if the individuals deserve the prize as they did this year. However, when the committee gives out only three teapots, and those to two women and a black man, one finds it difficult to believe that there is not at least one of the other 84% that also deserves the award. The Compton also seems to allow a rigid pattern presenting the pot to seniors only, although there must be some junior (or even sophs) who deserve recognition *now* for what they have accomplished. Saving the pot as a going away present makes little sense.

The William L. Stewart, Jr. Awards are given (by the Activities Development Board — why?) "to individual students and student groups for outstanding contributions to extracurricular life." This must be a prime reward area, one in which there are tens of worthy candidates each year, but this year there were only 13 Stewarts and last year only seven. I can think of a number of people who deserved yet did not receive this small simulated-metal slab.

The major complaint is that no one outside of the award committees seems to have any idea of how or why the winners are selected. Considering that both are supposed to be given for outstanding contributions to the community, I wonder why those who are being contributed to have no real say in the process.

Commentary:

The UA needs people to help out

By Steve Wallman

A large concert is being planned for this September. We hope to be able to bring the Beach Boys or the Grateful Dead to Rockwell Cage (or the Great Court), and we would like people who are interested in working on this to give us a call at the UA office (x3-2696).

There are some other projects also. Anyone who read the article on the Finance Board budget (*The Tech*: May 10,) gets an idea of some of the present problems. There is not enough money going into student activities to provide for all of the requests. This year's amount of unallocated reserves is pitifully low. I think that there is an overwhelming need for students to be involved in the Dean's Office budget allocations *before* the lump sum is delivered to the Finance Board to dole out. Not only are there increased costs to activities, as everyone would expect, but there are also many more activities requesting funds. The number of requests was about 40% greater — this year than last year. If activities are considered worthwhile and to be encouraged at the expense of the Institute, then MIT has to start taking into account their increased financial needs. More input is required for the future wellbeing of activities. This seems to be a natural place for increased communication. The chance for new activities to be lessened and for old ones to expand will be sharper unless more flexibility is added into the budget.

And what about the Awards Convocation? There were a variety of awards given out to students and staff, ranging from athletics to particular achievements

in activities, to teaching. Who gave out these awards, who decided that one person deserved them and another did not? The issue here is not whether or not the people that won the awards earned them, but the legitimacy and meaning of the awards. There was one award, for a person who dedicated himself to students' well-being, that was decided upon by a committee that consisted of two students and three administrators. The major award (the Comptons) committee had all of its members chosen by its chairman. There are one or more administrators who sit on almost all of the committees, it is inconceivable that their bias will not show through no matter how objective these people try to be. A new equitable distribution, involving more student representation and less administration overlap is needed. The awards may mean nothing to a large portion of the MIT community, but to the people who win them and the people who made the nominations they have a great deal of meaning indeed. The awards show some amount of appreciation and thank for dedicated service that generally goes unrewarded. The problem is not so much those few people who received awards unearned, but those people who were glaringly passed over. A better system, coupled with more time for decisions and less arbitrariness in the choosing, would help insure a more meaningful award's ceremony.

Did you know that there were academic exchanges with Harvard, Boston University, and others, in addition to Wellesley? Most people don't. There

needs to be more publicity about these programs. There is no good reason for them being so hidden, so hard to find out about, so hard to get into. We are going to work on the problem of publicity and access of these programs.

Did you know that the Chemistry department has lab fees, and that it is the only department in the Institute that does? The idea of the Institute in terms of paying for education implies that there should not be any specified fee for a particular subject, but that tuition payments should allow any student to take any subject without additional supplemental costs. We'll be working on this slightly inequitable situation also.

Again, we are looking for some interested people. If you are interested, give us a call.

Do you have any projects in mind? any gripes? any problems? There are plenty of things to work on, do you want to help? We'll be continuing our operations during the summer, if you're here and want to get something started, let us know. We need some help and enthusiasm, and we're looking for people to care a little bit. Just drop by and talk in the Student Center, Room 401, x3-2696.

Steve Wallman, is President of the Undergraduate Association.

Letters to The Tech

Technique I

To the Editor:

This is not an attempt to criticize Mike McNamee's personal and artistic opinions of *Technique* 1974. He is entitled to his opinions, whatever they may be.

I wish to take specific exception to his claim that "much of the book bears only a marginal relationship to anything that goes on at MIT, and deals *more* [my emphasis] with Boston and kids on the Common than with legitimate Institute events..." This is false. Applying the strictest guidelines, that an MIT-related event is one occurring on the campus proper, or involving MIT students directly, there are 27 pages out of 304 which are not specifically MIT-related. Since when, McNamee, does less than 10% constitute "much"?

If *The Tech's* editorial board must find grounds on which to base a pan of another group's efforts, they could at least have the honesty to get their facts straight.

J. Alan Ritter

Editor-in-chief, *Technique* 1973

The *Tech's* Editorial Board neither writes nor approves *Technique*; the review of *Technique* was McNamee's opinion alone, as evidenced by the fact that Paul Schindler wrote a dissenting review which appeared on the same page.

Technique II

To the Editor:

I would like to attempt to correct some of the misconceptions held by Mike McNamee concerning the intent of *Technique* 1974.

Years hence, when most of what transpired here is fading from memory, simple pictures and words about the Institute will have lost a great deal of their significance. That which is important,

that which must not be lost, are the feelings and emotions which surfaced during four years here. *Technique* 1974 has made an attempt to record those feelings and emotions.

For some, college represented a transition between late adolescence and adulthood. It is four years of maturing, of becoming the master of one's own destiny. The desire to express these ideas spawned, "On Overcoming A Fear of Birth." For many, the Institute provided many hours of isolation and loneliness, and these people will leave with ambivalence. The opening essay was created for and by them. In a similar manner, all of our book was intended to express thoughts and ideas which grew during our stay here.

In order to express a thought, one must necessarily distort it to fit it into a form, be it literature, art, or, specifically, photography. The more abstract the form, the less corrupted is the thought. However, the more abstract the form, the greater part of one's audience one sacrifices. One must choose a middle ground between total abstraction and total compromise.

I am sorry if our choice has placed McNamee in front of our audience. I am sorry that Schindler found our line drawings 'worthless.' We must, however, stand by our choice. To desert it would be an injustice both to the art and the artist.

Frank Venuti

Graphics Editor, *Technique* 1974

Arithmetic

To the Editor:

We all expect a higher percentage of women at MIT. The means chosen by your correspondent Dave Danford (*The Tech* May 7) should be rejected, however.

Sloan fellows women up 400% — from 1 to 5 — and not 500%.

Ardon Gador

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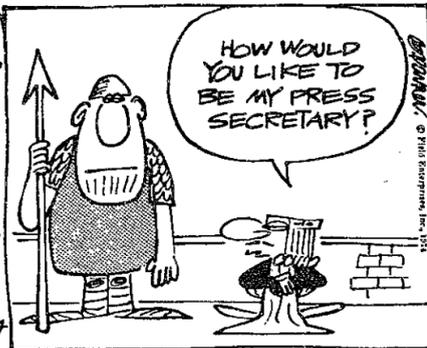
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THE WIZARD OF ID



by Brant Parker and Johnny Hart

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Myrdal: military growth past 'bounds of reason'

(Continued from page 2)

banning of these weapons and their indiscriminant use was much more likely than any agreement to ban nuclear weapons.

"Nuclear weapons should occupy our thoughts, but to simply call for the immediate dismantling of all nuclear weapons would get us nowhere," Myrdal said. "We must start on these smaller matters and then build up scaffolding for higher demands until we, the victims, are heard."

Myrdal feels that antipersonnel weapons are a number one priority for banishment as they "cause an excessive amount of pain." "One of the worst offenders is the high velocity rifles such as the M16 which was used by the United States in Indochina," she stated. The bullets of these guns attain speeds of over 800 meters/second and their destructive power is "decidedly greater than what is needed. Their use is worse than that of dum-dum bullets which was completely banned by 1899," Myrdal said.

"Modern weapon's technology is aimed at causing more pain and is in fact willfully planned. The idea of a clean bullet weaponry seems unacceptable to the military of some countries," Myrdal noted.

Another area that Myrdal suggested should be attacked is the use of biological and chemical warfare. "That might surprise you," Myrdal said, "as their use was banned by the Geneva Protocol of 1926." This agreement was signed by one hundred nations, including nearly all the

major powers except for the United States. "However," said Myrdal, "the US has repeatedly stated in the United Nations that she would abide by the protocol — then she uses tear gas and herbicides in Indochina."

Myrdal termed the use of such defoliants and anti-crop weapons "one of war's greatest horrors. This could easily be used as the poor man's weapon against his neighbor in wars of starvation. Such tactics could in fact spread throughout the globe."

The final area that Myrdal considered was that of indiscriminant use of mass bombing. "The bombing in Indochina was on a scale that is almost impossible to believe," she said. "One would have to drop a bomb like that which destroyed Hiroshima every six days to match the rate at which conventional explosives were dropped." The end result of this was the death and disfigurement of millions upon millions of people.

Myrdal noted that the people involved were almost all civilians, whereas in World War I only 5 percent of those killed were civilians. In World War II the figure was up to 50 percent; in Korea it was 60 percent; in Vietnam 70 percent of all the people killed were civilians.

"We must come to realize the paradox that while all wars and weapons are cruel, some are crueler than others," Myrdal added. "We must show the military of the various countries that there are alternatives with equal or only slightly less military effectiveness but that are at least humane."

Three MIT departments to choose new heads

(Continued from page 1)

year as department head, outlined some of the considerations that had gone into the Urban Studies search. He feels that MIT has "the top department in the country" in urban studies, and that it has been undergoing a "rather substantial expansion." Therefore, there is a need to "sharpen and develop" its focus. Rodwin hinted that the new head will come from within the department, saying, "There are some very good people around," and that the search committee had been inclined to "tap local talent."

If all goes well, all of the department head appointments will be confirmed over the sum-

mer, and all will take office before the next academic year begins.

Although they have "not ruled out people inside the department," the Architecture search committee is conducting an "energetic" search for outside people, according to Anderson. He explains that the committee is searching for good outside people partly as a yardstick against which to measure candidates from within the department. Currently, "seven or eight are in active consideration," and the committee is still looking for more information on another seven or eight. All these are from outside the department; insiders will be considered later.

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The program begins June 1 and ends Sept. 1, 1974.

Holland/Newsweek Overseas Research Project

1974 awards presented in Kresge Little Theatre

(Continued from page 3)

Harold J. Pettegrove Award
Michael Salvatore Cucchisi '75

Gold Awards
Michael Salvatore Cucchisi '75
David Alfred Castanon, G
Paul Romeo Giguere '75
John Daniel Kavazanjian, G
Barbara Lee Moore '76
John Franklin Pearson '74
Bruce Brian Schreiber '74
Peter Anfaenger Schulz '75
Roger Patrick Simmonds, G

The Chalmers International Students Award
Arvind Khilnani '74
Johnny So Lim, G

The Frederick Gardiner Fassett, Jr. Award
Andre Richard Jaglom '74

James N. Murphy Award
John Harold Murphy
Department of Athletics

The Goodwin Medal
Ihab Hanna Farag
Instructor, Department of Chemical Engineering
Ronald Mark Hollander

Teaching Assistant, Department of Materials Science and Engineering

The Everett Moore Baker Award for Outstanding Undergraduate Teaching
William George Thilly
Assistant Professor, Department of Nutrition and Food Science

The Karl Taylor Compton Prize
Samuel Eugene Denard, Jr. '74
Janet Debra Stoltz '74
Sandra Gay Yulke '74

A Special Award Presented to Mrs. Karl T. Compton

(Continued from page 1) would prefer to advise, and the maximum number he will accept. The preferred number has declined from about five to approximately 3.9 students.

"If all the advisors we have now wanted to accept five advisees, we would only be about forty advisors short." Buttner told *The Tech*. The increase in class size, from 900 in the class of 1977 to 1000 in the class of 1978, has aggravated this problem.

The Schools of Humanities and Social Sciences, Management, and Architecture and Urban Studies are far behind the

two largest schools, with eight, one, and four volunteers respectively.

"There is no clear generalization that can be drawn from the departmental breakdowns," Buttner said. "Some departments tend to take a great deal of interest in advising, and urge their faculty to volunteer. In others, the pressure is not there."

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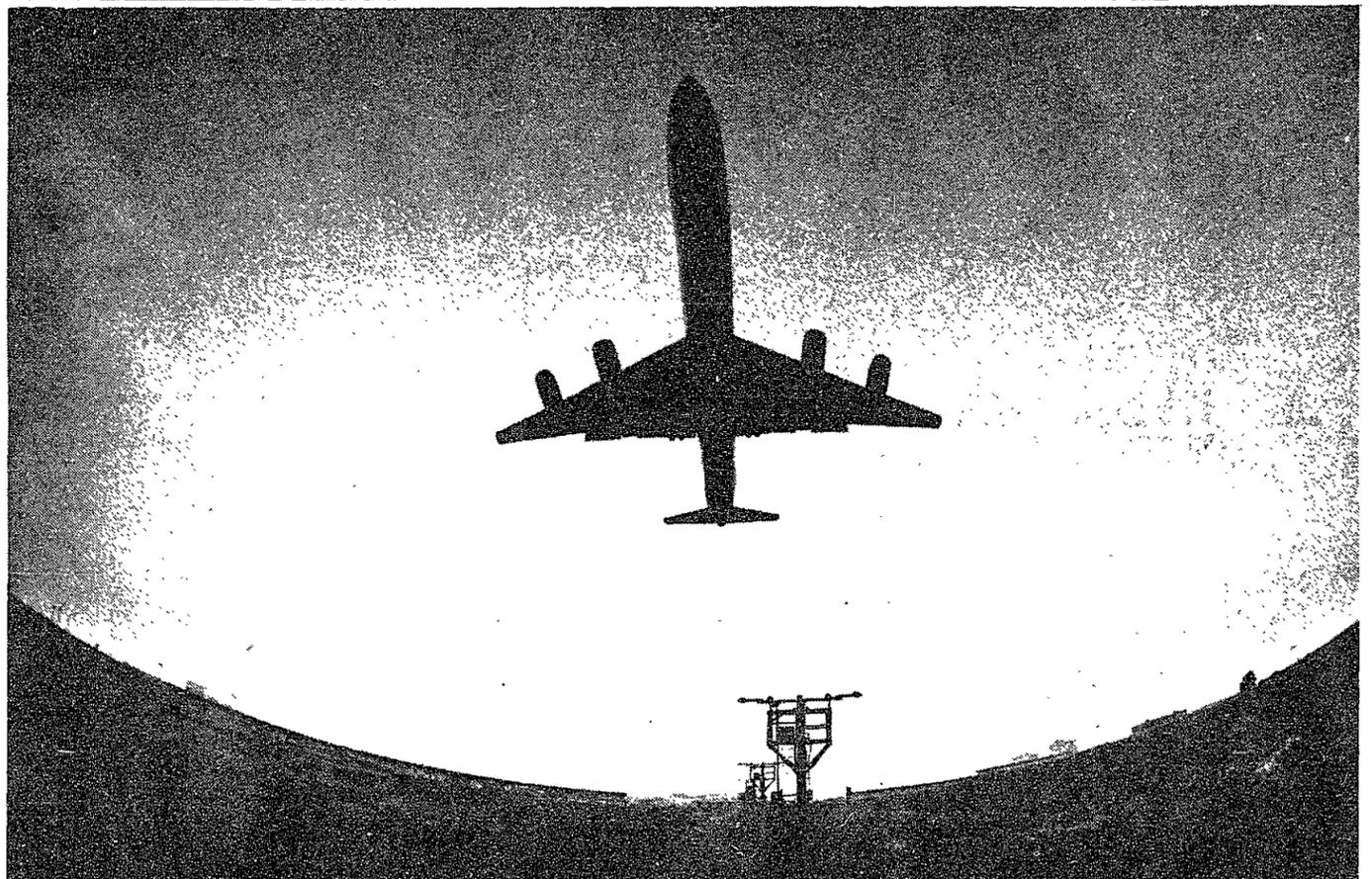
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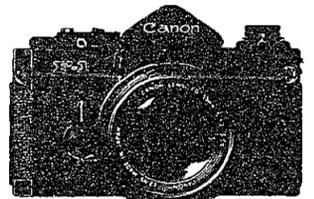
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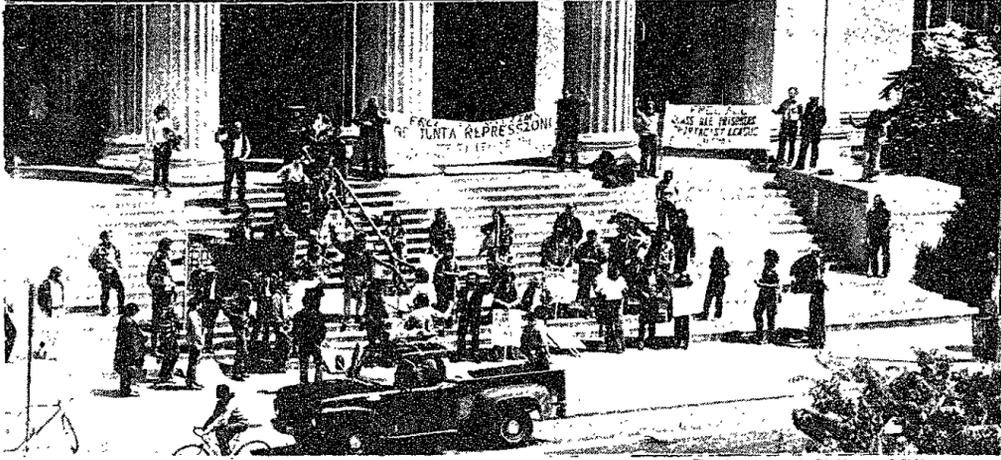
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Last Saturday several groups, including the Committee to Defend the Endangered Chilean Militants and the Revolutionary Communist Youth, protested American involvement in Chile in front of MIT.

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Engineers develop computer that talks

(Continued from page 1)
understand at least ten times that number of words.

"The morph lexicon within our computer includes... all the commonly known prefixes, suffixes, and Latin roots," said Allen.

Although programming these morphs into the computer was a relatively simple task, engineers came up against immense problems in breaking words down into the correct sets of chunks. For instance, morphs often change when they are incorporated into words: "pit" becomes "pitting," gaining a "t;" "choke" loses an "e" to become "choking." To overcome these difficulties, Professor of Electrical Engineering Francis Lee developed a complicated set of

rules which enable the computer to break a word down properly.

Although Allen still wants to develop this talking computer into a reading machine for the blind, he also sees many other uses for the computer.

A major use of the machine could be in computer output; a library user would telephone the computer and hear what information it has to offer. The machine could also be very valuable in computer-aided instruction, such as teaching children to read.

Allen and his associates realize that they will have to make substantial progress before this computer can analyze entire sentences and speak them naturally.



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Sports

WPI twinbill sweep ends Beaver slump

By Lawrence D. David
Having dropped their last four games in a row, the Beaver baseball team battled back to sweep a doubleheader from WPI by scores of 8-7 and 13-7, upping its record to 14-7, the best mark in MIT history.

WPI was in control throughout the opener and apparently had the game locked up with a 6-2 lead through 6½ innings. (Games in collegiate doubleheaders last only seven innings.) However, a furious rally by the Beavers in the home half of the seventh evened the score at 6-all.

A single by Roy Henriksson '76, following a pair of walks, loaded the bases. Another walk, this to Mike Dziekan '76, forced in a run, and Dave Tirrell '74 then rode a 1-1 pitch into left to score two more Beavers. After an error kept the rally alive, Kevin Rowland '74 stroked a long fly to tie the contest.

MIT again fought back after WPI had gone ahead, 7-6, in the eighth. A hit batsman and a walk set the stage for a run-producing single by Tirrell to tie the score. WPI's pitcher then made a good play on a hard-hit smash to momentarily save the game, but Herb Kummer '75 lashed a base hit past the shortstop, scoring Dziekan with the game winner.

The second game was not nearly as close an affair as MIT's bats were hot. A seven-run first inning, highlighted by a double by Steve Reber '74 and a three-run triple by Dziekan, and Bob Train's third inning grand slam homer, a long drive down the right field line, pretty much iced the game for the Beavers.

John Cavolowsky '76 won both ends of the twinbill in relief, the first MIT pitcher ever to do so, boosting his record to 3-0.

However, the week was not a complete success as the Beavers blew early leads in dropping a pair of games to Greater Boston League opponents on Monday and Wednesday.

MIT parlayed some timely hitting and shoddy fielding by the Jumbos of Tufts to take a 4-0 lead in the first inning. Con-

trol problems by the Beaver starter allowed Tufts to even the score in the second. As MIT bats cooled off, the Jumbos proceeded to build an insurmountable lead to win their first GBL contest.

Starter Mike Royal '76 was breezing along, hurling a one-hitter at Harvard through the first five innings two days later, but a six run Crimson uprising in the sixth reversed a 1-0 Beaver lead and spelled the end of MIT's upset hopes.

The Beavers conclude their regular season this afternoon at Briggs Field, taking on Bowdoin at 3:00 pm.

Rugby wins New Englands

A weary but happy MIT rugby team returned victorious from UMass at Amherst on Sunday after winning the grueling two-day New England Rugby tournament. The Ruggers posted four victories in a space of twenty-eight hours besting 24 of the finest teams in New England and eking out an exciting double overtime win over defending champ, Beacon Hill, in the final.

The Techmen drew a bye in the first round and played Springfield, a team that they had previously beaten, on Saturday at 1:30. MIT won handily with Jacques Cremer G scoring two tries and Dave Schwartzwald a third. Les Smith added a penalty kick. The play in the forwards was also excellent with fine games from freshmen Mark Sneeringer and Kirk Carlson, and excellent footwork from hooker Bill Miller G.

The third round game had MIT meeting Charles River, a tough team with big forwards, which had beaten MIT last week

8-4. The Techmen jumped off to a 6-0 lead on penalty kicks (field goal-type kicks) by Roger Simmonds G, but Charles River added one of their own to make it 6-3 at the half.

The River-rats tied it at 6-6 with another penalty kick, but a kick by John Kavazanjian G put Tech ahead 9-6 with ten minutes to play. A Charles River kick with 5 minutes left made the score 12-9 in their favor.

Although the situation looked hopeless the ruggers fought back and with one minute to go were awarded a 20-yard penalty kick which Kavazanjian converted to send the game into sudden death overtime.

In the second overtime period, Simmonds made a thrilling 25 yard run using his other backs as decoys and beating his own man to give MIT the win. The run was set up by some great loose-ball play by forwards Bill Bubb, Ron Prinn, and Jim Caruthers '75 and great play by Tom Campbell '74 and Schwartzwald in the backs.

The team was thus thrust into the semi-finals on Sunday, happy that they had made it that far and ready for a tough Providence team, a squad that was a quarterfinalist last year.

MIT went up 3-0 on a fine 40-yard penalty kick by Yoshida in the first half, but Providence tied the score at 3-3 and threatened time and time again, only to be foiled by Caruthers, Yoshida, and Simmonds on various occasions. With ten minutes to go, Kavazanjian converted a kick to make the score 6-3, and the ruggers held on for the win. The only dark spot in the game was a pinched nerve injury to key player and scrum-halfback (comparable to a quarterback) John Wall G, who played three excellent games.

The Beacon Hill Rugby Club defeated Brown in the other semi-final game. MIT met the defending champions with Les Smith playing scrum-halfback for the injured Wall. This was the first time that Smith had played this position since grade school in Scotland, and he filled in amply doing a great job offensively and defensively.

MIT went up 3-0 on a penalty kick by Kavazanjian early in the second half, but Beacon Hill came back to tie the score at 3-3. Though out-weighted by 20 pounds per man, the Tech scrum showed speed and strength in stopping the Beacon Hill pack, Bill Roberds G and Kirk Carlson, each perhaps playing the finest game of his career.

Two extra periods were needed to decide the contest as the score remained tied. In the second overtime, Jim Caruthers stole the ball at midfield dribbled to the 30, where fellow forward Ron Prinn picked the ball up and started running. As Prinn was being tackled, he passed the ball to captain Paul Dwyer who carried the ball in and put it down just inside the corner for the championship try.

It was a fitting end for two days and four games of great play by the forwards, especially for the defensive play of the wings, and lock Ed Walker who played four excellent games. The fact that only one try was scored against MIT is due to the great tackling and defensive play by backs Tom Campbell, Jacques Cremer, Roger Simmonds and Dave Schwartzwald who played all 4 games.

Great credit must go to Coach Serge Gallant G, who along with ex-coach Bill Thilly has spent so much time and effort turning an amorphous group of players with mixed talents into a fine working team, surely the best that New England has to offer.



Scrum halfback John Wall G, gets the ball out of the MIT scrum in a match against Charles River, as Shin Yoshida (10) awaits his pass-out. MIT established itself as the top Rugby Club in New England this weekend.

Photo by Russ Johnsen

Soccer teams begin title chase

Playoffs began this weekend for the Viano Cup, emblematic of the A-league IM soccer title. In quarter-final action, Senior House-Aero, the only living group to advance to the semis, edged LCA/DU in overtime, 2-1.

Baker House, after holding the powerful Africans team to a 0-0 tie in its final game, succumbed to equally strong Z by a 4-0 count. The Africans, whose perfect record was spoiled by the Baker tie, came right back to clobber Economics, 9-0. In the

other quarterfinal, Hellenic routed Math, 7-1.

Saturday's semis will pit Senior House against Africans, and Hellenic will face Z (Brazilians) in the other clash, with the finals taking place Sunday

THE FINAL STANDINGS:

A-League	W	L	T	PTS
*Africans	3	0	1	7
*Hellenic	4	1	0	8
*Senior House-Aero	3	1	1	7
*Z	2	1	2	6
*Baker 'A'	2	2	1	5
Sloan	1	2	2	4
Theta Delta Chi	1	2	1	3
Theta Chi	0	2	3	3
E.C. 'A'	0	5	0	0
Club Latino	2	2	1	5

B1 League	W	L	T	PTS
*LCA/DU	3	0	2	8
Phi Delta Theta	3	1	1	7
Metallurgy	3	2	0	6
Nuc. Engineering	2	2	1	5
Bexley	1	3	1	3
Burton 'B'	0	4	1	1

B2 League	W	L	T	PTS
*Math	4	0	0	8
FIJI	3	1	0	6
Delta Tau Delta	1	2	1	3
Phi Beta Epsilon	1	2	1	3
Baker 'B'	0	4	0	0

B3 League	W	L	T	PTS
*Economics	2	1	1	5
Sigma Phi	1	0	3	5
Epsilon	1	1	2	4
Sigma Chi	1	2	1	3
Alpha Epsilon Pi	1	2	1	3
Pi Lambda Phi	0	1	3	3

C1 League	W	L	T	PTS
*MacGregor 'E'	3	0	2	8
Conner 4	3	1	1	7
Conner 3/				
Russian	2	1	2	6
MacGregor 'H'	2	3	0	4
Burton 2nd	1	2	2	4
Student House	0	4	1	1

C2 League

	W	L	T	PTS
*Alpha Phi	3	0	1	7
Omega	2	1	1	5

	W	L	T	PTS
Chi Phi	1	2	1	3
Delta Kappa	1	2	1	3
Epsilon	1	2	1	3
Kappa Sigma	0	2	2	2
Phi Sigma Kappa	0	2	2	2

C3 League

	W	L	T	PTS
*Delta Psi	4	0	0	8
East Campus 'C'	2	1	1	5
Theta Xi	2	1	1	5
ZBT	1	3	0	2
Hillel	0	4	0	0

C4 League

	W	L	T	PTS
*MacGregor 'D-F'	2	0	1	5
Burton 3				
Bombers	1	0	2	4
MacGregor 'A'	1	0	2	4
NRSA	0	4	0	0

*Qualify for playoffs



The Africans' John Polley G (left) and Bill Asamoah '74 (center) chase Jose Camargo G of Economics as the Africans advanced to the semifinals of the IM soccer playoffs.

Photo by Ed McCabe



Photo by Ed McCabe

Cas Iloeje G (left) of the Africans and Yves Balcer (right) of Economics fight for possession while Eni Njoku G of the victorious Africans looks on in the 9-0 IM soccer playoff game.