



Leonard Bernstein, who is serving this year as an Institute Lecturer, is participating — though so far only occasionally — in a faculty seminar on music, linguistics and aesthetics.

## Leonard Bernstein comes to MIT

By Michael Garry

Leonard Bernstein, the internationally renowned composer, conductor, and sage of music, is an Institute Lecturer this year, participating in an interdisciplinary faculty seminar on music, linguistics and aesthetics.

According to one participant in the seminar, David Epstein, Professor of Music and conductor of the MIT Symphony Orchestra, Bernstein is taking part in the seminar, which meets at least bi-weekly and will continue to the end of the academic year, "to the extent that his busy schedule allows." So far he has appeared at the first meeting in September, has been out of the country since then, and will return sometime in December, Epstein said.

The purpose of the seminar, Epstein noted, is to bring together the different perspectives of linguists, philosophers, psychologists, biologists, computer scientists, and musicians like Bernstein in a concerted

effort to study style and structure in music and eventually other arts.

Epstein described some of the specific work being done in the seminar. Linguists, for example, are engaged in the study of the structure of musical symbols. Psychologists and computer scientists are examining the perceptual processes of persons who reproduce or listen to music. And the process by which music arouses human sensations is being probed by biologists.

Bernstein, who gave a series of lectures on musical structure last year at Harvard University, has not as yet indicated just what he intends to do in the seminar, said another participant, Professor of Philosophy Irving Singer. Although he might present a paper or lead a discussion, "nobody in the seminar is under any special obligation."

It is hoped, Epstein added, that as a result of the seminar "new courses involving this approach to the study of music

## Blood Drive nets 1473 pints

By Stephen Blatt

The fall 1974 Blood Drive netted 1473 pints of blood, exceeding last year's total by almost 50, according to Wendy Goodman '76, TCA blood drive chairman.

Two fraternities, Pi Kappa Sigma and Beta Theta Pi, each won a keg of beer for providing the largest percentages of donors from among the fraternities. The 36 members of PKS donated 30 pints of blood while 19 pints were given by the 27 BTP fraternity brothers.

Burton 3, which delivered 27 pints from 49 residents, and Baker 6 (31 from 63) were the dormitory winners, and will also each receive a keg of beer.

"The drive went really well," said Goodman. "It was very smooth, with no big crowds except Friday afternoons."

This year, for the first time, two promotional gimmicks, the distribution of pizza discount coupons and the beer contest, were used to encourage donations. The beer contest was apparently more effective, Goodman said, noting that several

living groups "that never really gave blood in the past gave this year, while other groups worked harder to reach 100%."

Pi Lambda Phi gave the most blood among the fraternities, 31 pints, while Baker House, as usual, led the dorms with 99 pints.

MIT contributes about 40 percent of the blood collected in Cambridge and over two percent of the statewide total. It leads all colleges in Massachusetts in number of pints donated yearly. (See table below for blood drive results of the past two years.)

## MIT appraising Iran programs

By Gerald Radack

Several proposed programs for training scientists and engineers from the Mideast nation of Iran are now under consideration by the MIT School of Engineering.

At least "four or five separate conversations" between MIT faculty and Iranian officials are currently underway, according to Associate Dean for Engineering James D. Bruce '60. The proposals, many of which were initiated by Iranian educators, include plans for expansion of

educational facilities in Iran, as well as programs that would bring Iranian students to MIT to study.

The MIT Center for Advanced Engineering Study (CAES), Bruce said, has been asked to aid the Iranians with expansion of Ayra-Mehr University of Teheran, the capital of Iran. Ayra-Mehr is planning to add a new campus that will increase its enrollment by 10,000 students.

MIT's involvement in the project would take place in both countries, according to CAES Assistant Director Paul E. Brown '56. "They will send some people over here as visiting engineers or visiting faculty members, and some of our faculty will visit Iran," Brown explained.

Iranian students who are being trained for faculty positions at the new university will also be

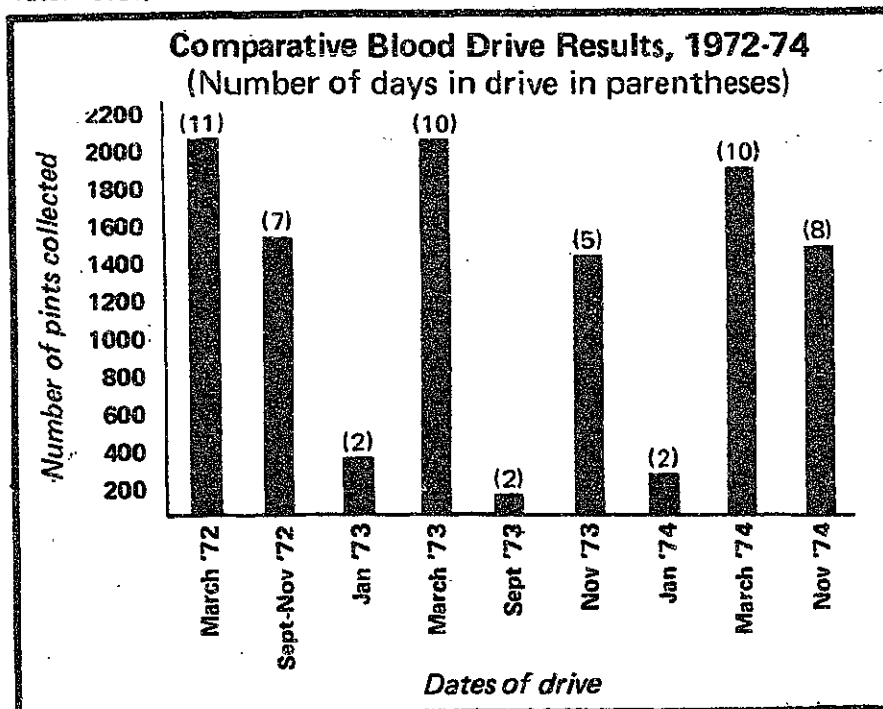
sent to MIT, Brown added. These students would be admitted on the same basis as any other foreign students, he said.

Another program involves a group of private citizens in Iran who would like to build an Iranian science university patterned after MIT. MIT's contribution to their effort, Brown said would "help in developing goals and objectives." Professor of Nuclear Engineering Edward A. Mason '48 is discussing with the Iranian Embassy a proposal that asks MIT to train a group of Iranians through the master's level in nuclear engineering, according to Bruce. "The Iranians have bought five nuclear reactors to be used for power generation, and need some experts who know how to operate them," Bruce explained.

Bruce said, however, that "we are prepared to accept and help Iranian students" in the same manner as other foreign students. There are currently students from ten foreign countries at CAES.

MIT would like to "help the lesser developed nations develop science and technology institutions," Bruce stated. As an example, he said that "one of the things that we would like to help Iran do is work on its food problem."

Bruce believes that MIT will benefit from these programs with Iran. "As we work with other countries to develop educational programs to meet their needs, we gain insights into programs that we are developing to meet our own needs. It gives us another way to evaluate our own programs."



## DSRE assays learning process

By Craig Bura

MIT's Division for Study and Research in Education (DSRE) is mobilizing its intellectual and human resources in an effort to better understand individual learning, learning environments and how organizations learn.

The fifteen month-old Division offers theoretical and practical courses, formal and informal seminars, research opportunities and possibilities for working with children in new learning environments.

One focus in the division is the investigation is the investigation of computers and their relation to human thinking. Closely related to MIT's Artificial Intelligence Laboratory, these studies use computer science to explain cognitive processes.

Turtle Geometry, one product of research in this area, changes a child's relationship to the material being taught by making the child describe paths or shapes so that a computer-controlled vehicle or plotter can be brought into operation,

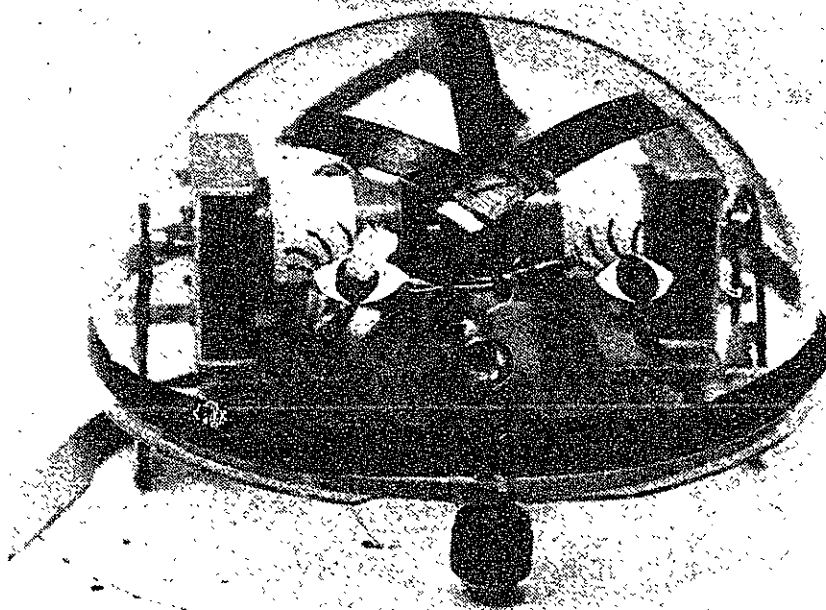
"Turtle Geometry is designed to get away from the concept of being teacher directed," explained the system's creator, Seymour A. Papert, Cecil and Ida Green Professor of Education and member of the Executive Committee of DSRE. Papert further explained that use of Turtle Geometry gives the child "a sense of using numbers and other mathematical ideas, of describing geometric shapes and of learning by making something

work."

The Division currently has a facility in the planning stage that will provide educational innovators with the forms of technology necessary to produce new improved learning environments. Other limited facilities that are in later stages of development include:

- 1) A computer-based learning environment for children.
- 2) A computer graphics laboratory for use by MIT students and faculty.
- 3) A "circus arts" learning laboratory in which children and adults can learn physical skills such as juggling or unicycling under technologically advanced conditions.

(Please turn to page 5)



This technological turtle — designed, developed and programmed by graduate student Radia Perlman — is being employed by Seymour Papert of DSRE to teach four-year olds mathematical concepts as a part of a larger program exploring new learning environments.

## Piven: welfare system getting too restrictive

By Greg Erwin Lemke

"The managers of the American public welfare system are attempting to bring that system back to the restrictive 'status quo' of the 1940s" declared a Boston University political scientist before a seminar audience last Thursday.

Dr. Frances Fox Piven, co-author of the book "Regulating the Poor - The Function of Public Welfare" and a member of the national governing board of the American Civil Liberties Union, aired her views on the American public welfare system in one of a continuing series of seminars on "Merit and Equality in a Just Society."

"There are those who feel that the American welfare system is not very interesting, or not very important," Piven noted.

"These are dangerous complacencies," she added, stressing the importance of the topic, "for millions of Americans depend on

welfare for their very subsistence."

In discussing the current status of the welfare system, Piven said that its position as an issue is still one of relative importance. She pointed to the predominance of "the welfare theme" in present-day political propaganda, and to the recent defeat of John Gilligan, who as governor of Ohio had instituted a variety of far-reaching social-welfare programs, as substantiation of this assertion.

Piven further asserted that this interest and the "renewed cries of a welfare crisis" suggest that the "hierarchy of welfare management" is preparing to return the system to a more restrictive status, similar to that in existence prior to the reforms of the mid and late 1960's.

Piven said that the restrictive status was being re-instituted through the use of a variety of tactics, including the following: (Please turn to page 6)

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Garry Winogrand, (right) a photographer of considerable repute, showed slides of his recent works to an overflow crowd in 9-150 last Thursday night. Winogrand, who teaches photography at the University of Texas in Austin, has put on numerous one-man photography shows around the U.S. and has been compiling a photographic record of the news media. In the background is Ted Papageorge, instructor in the MIT creative photography lab.

## NOTES

\* Peter Zimmerman, Harvard Fellow at the Center for International Affairs, will discuss "The Development of the Trident Submarine." New Technologies and International Security Seminar in the Millikan Rm. (E53-482), from 4-5:30pm Tuesday.

\* MIT-Harvard Arms Control Seminar with Gene LaRocque speaking on "The Growing Power of the Military." At Harvard Center for International Affairs, Rm 1, 6 Divinity Ave., Cambridge, Wednesday.

\* Musical Acoustics Lecture — WTBS and the Boston Section of the A.S. will sponsor a talk by Prof. A.J. Houtsma of the EE and Humanities Depts. concerning the acoustics of the guitar. Wednesday, Nov. 13 in Rm 6-120, at 8pm.

\* The Wellesley College Experimental Theatre will present *Waiting for Godot* by Samuel Beckett at 8pm Friday and Saturday, November 15 and 16, in the Jewett Arts Center auditorium on the Wellesley campus. Written in French in 1954 and now translated into English, the comically tragic play deals with the universal questions of Time, God, and people's abilities to cope with the human predicament. The all-female production represents a change from the usual cast of four men and a boy. Sponsored by the Wellesley College Theatre, the play is directed by C. Hope Costin, Wellesley Class of 1977. Tickets are available at the door for \$1.00. Admission for high school students is 50 cents.

\* "My Fair Lady" is being presented by the MIT Musical Theatre Guild on November 14, 15, and 16, in Kresge Auditorium. Admission: \$2.50 with MIT ID, otherwise \$3.50. For reservations call, 253-6294.

\* Preliminary schedules for final exams for the fall term have been issued. All complaints about scheduling and exam conflicts must be made by Wednesday, November 20, and filed at the Schedules Office, E19-338.



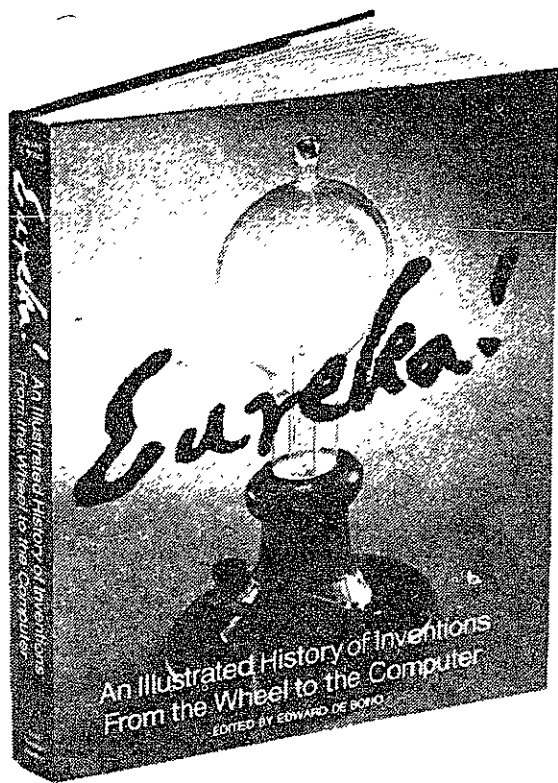
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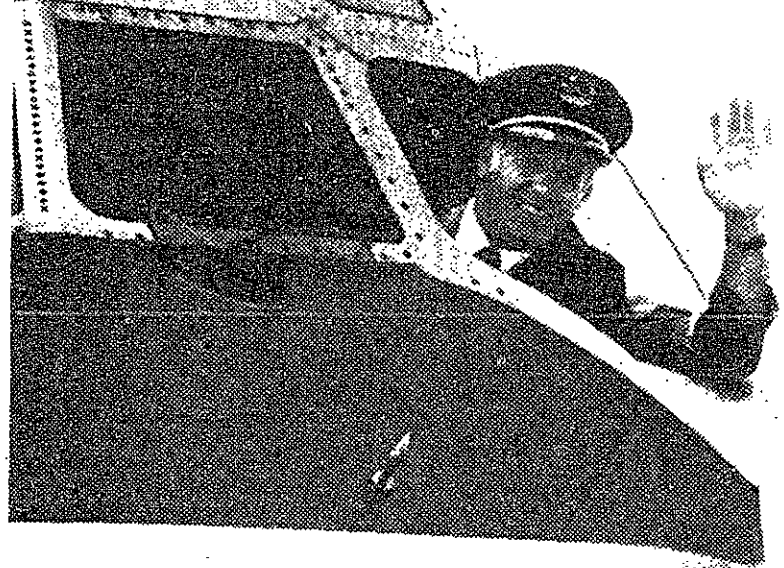
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## In Case of Insomnia— Inscom(m)?

By Storm Kauffman

Inscom is back. After six years of inconspicuous absence, the Institute Committee (abbreviated Inscom in this life so that it may be distinguished from the original *Inscomm*), has risen from the ashes of the always defunct General Assembly (GA).

UAP Steve Wallman apparently made the decision to resurrect Inscom based primarily on the non-existence of the GA (supposedly the chief governing body of the UA), the insipid record of the recent UAPs, and the absence of a unified student lobbying group. Unfortunately, he chose to use the Inscom name, one which raises distasteful memories of squabbling student politicians on the make.

In its last year, *Inscomm* became virtually invisible, meeting on short notice and failing to publicize its decisions. Then-UAP Maria Kivisild saw fit to impose her will on the committee. Spring Weekend was abolished because of financial problems. Plans for dorm rushing ran afoul of the IFC. Eventually, a motion to dissolve *Inscomm* failed 8-6, and Kivisild walked out. The remainder of the year was spent in formulating proposals for the restructuring of student government. The GA that MIT got was similar to the pre-1953 *Inscomm*, a large and unwieldy representative body.

Wallman has better intentions than the revival of this sometimes vindictive committee. According to Finboard chairman Jack VanWoerkom '75 and IFC chairman Pete Mancuso, the primary objective is to improve communications among the various student representatives. The UA Committees (including Finboard, SCEP, SCC, and SIPB, according to the 1969 UA constitution) were apparently reassured that the powers and responsibilities that they have earned in their years of independence would not be circumvented. When the living group officials joined (third meeting), they too insisted on autonomy and refused to yield their powers.

The feeling seems to be that Inscom can (and probably will be very useful as a forum for communication between the various student interest groups and UA activities. That is all that most of its members want; they are not interested in the *Inscomm* of old.

However, I can see the spectre of a group (not necessarily this present group of individuals) which will ultimately come to consider itself all-powerful. Possibly a poor choice of words, the article in *The UA News* (by UVAP Jim Moody) already hints at this (e.g., suggesting that LSC may not have a right to its "control over extensive publicity resources and a major portion of campus entertainment"). Also, there is Wallman's unannounced (the undergraduates not being informed of the act until after the third meeting) and possibly unauthorized reformation of the committee. After all, the 1969 constitution specified the GA as the representative branch and made no mention of the *Inscomm* which it dissolved. While the creation of a forum for communication is both acceptable and admirable, the creation of a usurping governing body would place Wallman in contradiction to the last stated wishes of the MIT undergraduates. If he is not to be open to criticism, Wallman must not permit his Inscom to take on powers vested in the GA (even if it is deceased) until the constitution is amended.

A return to the old *Inscomm* is not what we want. Since *Inscomm's* demise, the individual student activities have flourished.

Inscom will benefit all as a forum for communication. As a new governing body, it is more likely to be detrimental than it is to cure the contagious anemia which killed the GA in its infancy.

# Letters To The Tech

## AWARE

The following letter was addressed originally to the Editor of The Boston Globe. To the Editor:

This letter is written to you by the Steering Committee of AWARE, a group which is attempting to organize the office workers at MIT. We read the editorial column written by Michael Ansara on October 2 and the subsequent reply of Mr. Jim Culliton, Director of Personnel Services at MIT. We feel that a response is necessary to clarify the feelings of employees who are directly affected by the statements of Mr. Culliton.

Mr. Culliton, in attempting to rebut Ansara's statement that a clerical worker at MIT can earn as little as \$80 per week, states that none of MIT's 1300 full-time clerical employees are classified as Grade 1. If Mr. Culliton is correct, we are led to ask the obvious question: why is this job classification still "on the books"? We suspect that there are some employees who fall into this job category and therefore may receive gross salaries as incredibly low as \$80 per week.

Culliton states that clerical salaries at MIT are competitive with others in the Boston area. He fails to mention that clerical pay in Boston is almost the lowest in the nation. Boston ranks 13th in a list of 15 major cities (only Memphis and Birmingham have lower clerical pay), despite the fact that Boston has the highest cost of living in the continental United States. Thus, MIT's salaries are indeed "competitive," at an abysmally low level. In part, these low levels may be the result of the activities of the Boston Area Survey Group, a committee composed of MIT and other major clerical employers who meet regularly to "exchange information" on clerical salaries.

Culliton takes issue with Ansara's criticisms of the "merit" system at MIT. We have seen this so-called merit system abused in many different ways. One of the major criticisms we have made of the "merit" review is that it is arbitrary and is contingent on the whims of individual supervisors. Many employees have complained that because their individual supervisors were trying to "trim" departmental budgets or didn't like them (despite the fact that they may be efficient workers), they received much less than the maximum percentage increase for their job classifications.

A student in the Sloan School of Business was hired by John Wynne, Vice President, Office of Administration and Personnel, to study this year's April Salary Review (the annual review at MIT, which was publicly touted as a merit review). The following are direct quotes from his report:

(re: the supervisor - employee evaluation discussion):

"Many discussions took place either when the raise was handed out or after the raise was received. In almost all these cases, the idea of performance appraisal was seriously undermined since it was obvious that decisions had been made without any discussion or explanation."

"A highly controversial aspect of the review was whether or not the salary increase was really based on merit. Although the intended purpose of the review was to reward performance, only a few of the seventy-two people interviewed felt the process effectively carried out this purpose. In fact, most people were insulted by the administration's attempt to make the April process seem like a merit review."

Mr. Culliton points out that "rapid inflation falls very heavily on colleges and universities because they are not in a position to pass the full increases in their costs to students and/or research sponsors." MIT has not hesitated to pass the costs on in the form of higher tuition over the past 25 years. Since 1945, tuition has risen faster than the Consumer Price Index over the same period of time. With reference to research contracts, we would like to make the following points: many research contracts work on a "cost pass-through" arrangement. That is, as employee and benefit costs rise, these costs can be passed on to the grantor - in most cases the federal government. MIT is not just another "college or university." Because of the national importance of its scientific research, MIT is granted millions of dollars in research money by the federal government, and it is hardly likely that government agencies would withdraw support from it for requesting more money. A recent *Boston Globe* article made reference to the fact that MIT receives more funds from the federal government than any other college or university. Besides, Mr. Culliton seems to infer that MIT's employees should bear the brunt of MIT's financial burden. Why should this be so? We are helping (and have helped) MIT reach the reputation it has today. Why should we feel guilty about demanding a living wage?

Mr. Culliton compares our wage increases to the Consumer Price Index and mentions the fact that the average increase last April was nearly 7% and the Consumer Price Index (CPI) was 10.2%. He tries to balance this off by stating that the new non-contributory pension plan "adds" 3% to our 7% increase. The following facts should be considered:

1. how many people actually participate in the pension plan and therefore benefit from this "added" 3%?
2. the CPI is calculated on a monthly basis. From April through September of this year, the CPI has already

risen 5.5%. Economic forecasters have predicted that the CPI will rise 12-13% over the next year, thus absorbing our 7% increase long before April of 1974.

Mr. Culliton makes a series of statements about the promotional and increase system at MIT. Our Grievance Committee has been collecting information on grievance cases and the evidence seems to refute Mr. Culliton's claims. When he refers to the "40% of office/clerical employees (who) received some increase beyond the regular annual merit review," he is including new employees who receive a "guaranteed" salary increase contingent upon a good evaluation at the end of their first four months at MIT. Even allowing for this group, it might interest Mr. Culliton to know that most of our grievances have come from these people, many of whom did not receive a review or a salary increase and didn't even know that they were entitled to one. Also, many employees who asked for an increase other than the April Review after their first year of employment, were told that this was not "common practice" at MIT, and that in order to obtain a salary increase, it was necessary to be promoted to a higher grade of office work. This promotional process is very often arbitrary (based on the prestige of the individual supervisor), frustrating, and often time-consuming, involving a personnel representative who probably has had no contact with the employee since he/she was hired.

In conclusion, it is important to mention that the office workers at MIT have no direct form of representation. Budgets are formulated affecting policies which directly affect our futures and we have no input into these procedures. We feel that it is time for a change.

Rochelle Weisbaas

Kathy Kauzer

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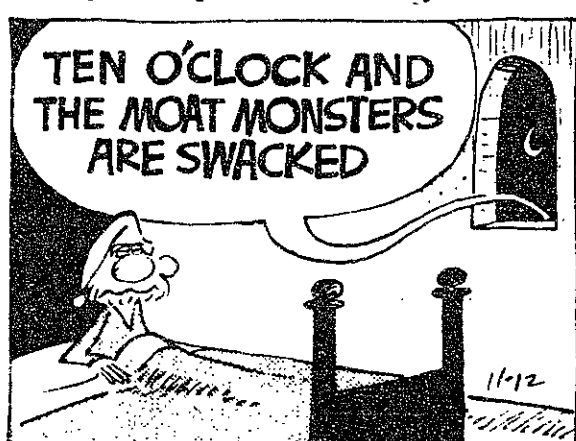
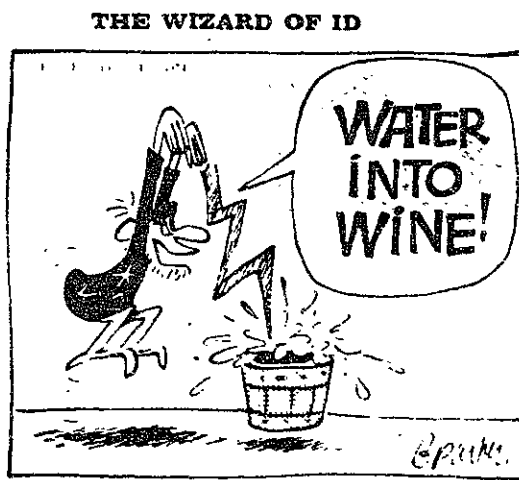
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by Brant Parker and Johnny Hart



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

## New learning milieu analyzed by DSRE

(Continued from page 1)

4) A music laboratory combining old technologies such as pianos and drums with new technologies such as computers and electronics.

Factors responsible for the creation of DSRE were numerous, according to Benson Snyder, Professor of Architecture and Planning and member of the Division's Executive Committee. Snyder, who is currently investigating the dynamics of the processes of change in universities explained that there was a deep "concern about a number of questions regarding education at MIT."

The "division concept" is a new one at MIT, stated Theodore Martin, Professor of Mathematics and Director of DSRE. Martin explained that the Division, like any other department at MIT, can make faculty appointments and offer courses of instruction but it cannot admit a student or have degree majors. Admission to the program requires admission to a graduate department through the normal MIT procedures.

Most of the Division's faculty have joint appointments and the Policy Committee consists of both DSRE and non-DSRE faculty. This is intentional and looked upon with "great favor" because it keeps the Division and the MIT faculty in close contact, Martin said.

Funds for the Division came from sources including the Green Foundation, the Lilly Foundation, the National Institute of Health, the Ford Foundation and the National Science Foundation.

On July 1, 1973, the Division became an official entity. It was not until the fall semester of 1973, however, that classes and real operation started.

The Division's Executive Committee is appointed by the Director, Theodore Martin, and its functions are to form policy, to review policy formed by the Director and to monitor the function of the Division. The Policy Committee reviews the "overall direction" of DSRE and is made up of faculty members from other departments at MIT.

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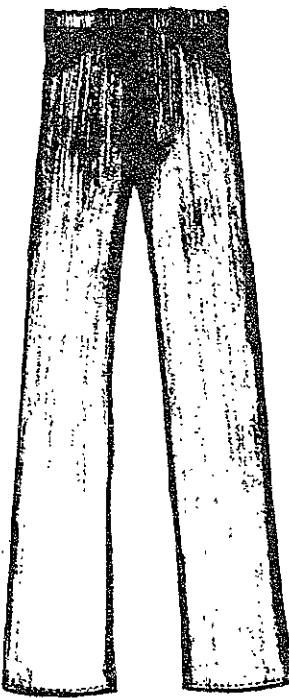
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## the COOP

M.I.T. STUDENT CENTER

## Welfare restrictive

(Continued from page 2)

1) The "socialization" of people, so that they don't apply for welfare. Piven pointed out that "Americans have always believed that poverty was a sign of failure," adding that "self-reliance and work" have always been seen as high American ideals.

2) Setting up maximum earning levels, and depriving those welfare recipients who exceed them of their payments.

3) Toleration of high levels of unemployment and under-employment.

4) Requiring prospective welfare recipients to forfeit some of their basic rights in order to be eligible for aid. Piven said these forfeited rights included "the right to parenthood," fatherless families are much more likely to receive welfare aid and "the right to privacy." She said that this last right is presently infringed upon through the use of such well-known techniques as

"fraud investigations," constant surveillances, and middle-of-the-night searches.

5) Withholding information on welfare eligibility requirements from the public.

6) Involving applicants in bureaucratic red tape: lengthening application forms, and making applicants stand in line day after day. Piven pointed out that the welfare lines at some New York offices begin forming at 3 and 4am.

7) The imposition of restrictive laws such as "the infamous residence laws".

Piven sees these practices, in one form or another, being re-implemented throughout much of the country.

"Basically," she concluded, "I see the American welfare system moving away from something vaguely designed to help people, and toward a system based on a design in deterrence."

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## Coast Guard outcores soccer

(Continued from page 8)

Marotta '75 put in a penalty kick at 32:45 after Coast Guard's goalie was called for charging while trying to make a save, an unusual infraction. One minute later, Paul Culter '77, a player who has seen very little action this year but got a chance to play because of the lopsided score, tallied his first varsity goal on a pass from Lampros Fatsis '77, as the Coast Guard defense broke down.

The two quick goals livened up the Engineers, who finally began to play aggressive soccer. MIT got a bad break with six minutes left when a blatant trip to Esref Unsal '75 in the penalty area was not called by the officials. At any rate, though, the MIT effort was too little too late, as the Engineers closed out the game, and the season on the short end of a 6-3 score.

Reserve goalie Gray Safford '75 closed out his intercollegiate career with fifteen minutes of shutout goaltending. Safford was not scored upon in eighty minutes of play this year.

Also concluding their varsity careers were Esref Unsal, Cha-Min Tang '75, and captain Ray Marotta, who despite very difficult circumstances, should be commended for his leadership this year. Marotta was the team's leading scorer, tallying five goals.

In trying to determine the cause of MIT's poor showing this year, a number of things are helpful. First of all, the injuries to Yoshida and Paul Fernandez '77 certainly hurt both the Engineer offensive and defensive units. Secondly, the team had lost four starters from the year before, and as a result had to rely on fairly inexperienced players to replace them. Most of the season was spent trying to rebuild the Engineer team, and after seven straight losses, the team began to jell, going 1-3-2

the rest of the year against some very strong competition.

Next year's situation appears better, as the team will have fewer gaps to fill. Strangely enough, this year's loss of Fernandez and Yoshida for much of the year will help the team in trying to replace this year's graduates. As a result, there is every reason to believe that the Engineers should have a much better season next year, a season that hopefully will erase most of the bad memories of this disappointing year.

### Graduate Study at U.C.L.A.

Dean Robert S. Kinsman will be at the Career Planning and Placement Office on Wednesday afternoon, November 13, to talk about graduate programs at U.C.L.A. in the arts and sciences, engineering, and management.

Students wishing to see him should schedule an appointment at the Placement Office, Room 10-140.

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## Viano Cup to Greeks

which left them in an awkward position from which to attack the Greek goal. However, several well-executed attacks were mounted by Aero/Senior House only to be stopped by the Hellenic keeper, John Paras '75, or by miskicks in front of open nets.

Boufounos and Covlacas were well contained by Aero/Senior House in this game and the team had to rely on their wing backs and forwards to move the ball. This they did very well.

Colson, the Aero/Senior House goalie proved again his value to the team, diving and jumping in front of the net all game in an attempt to rally his defense. This was to no avail, though, as the defense tended to bunch together, allowing the Greeks to maneuver the ball close to the net where saves are almost impossible.

Most commendable throughout the tournament was the officiating. Doug McLeod '77, Wayne Hamburger '76, and Ed Christiansen G did a great job in all seven of the hotly contested trophy games.

In C-league action, an old football rivalry was revived on the soccer field as SAE downed FIJI, 2-1, to take the championship.



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Sports



Alex Sarris G, a fullback for the Hellenic Athletic Club, clears the ball past Aero/Senior House's late-arriving Rick Wachnik '76 in the IM soccer championship game won by Hellenic, 3-0.

Photo by Dave Green

IM basketball begins

By Jeff Singer

The IM basketball season swung into its first week of action with a full slate of games in all leagues.

In A-league play, Lambda Chi Alpha won two games, squeaking past Chemical Engineering, 34-32, and defeating MacGregor 'Z', 44-23, as Mark Abkowitz '74 and Ritchie Straff '74 combined for 32 points.

Chemical Engineering won its first game, 33-30, over Ashdown, led by Graham Woerner's (G) 21 points. It wasn't Ashdown's week, as they also lost to MacGregor 'Z', 36-29. Baker 'A' split its games, beating the Burton 5 Smokers, 50-47, in an overtime game marred by 34 fouls, and being trounced by the powerful "Macks", 49-20.

Sigma Alpha Epsilon defeated Delta Tau Delta, 41-30, as Johan Nye '77 and Jeff Felton '78 hit consistently from the outside,

combining for 28 points. Last year's defending champion, Phi Gamma Delta, was overcome by a strong Delta Upsilon independent squad, 34-28, as the DU's showed balanced scoring and a strong defense.

The BSU opened its season with a 27-21 victory over the Plumbers, while Conner 3 'A' used 17 points from Ed McHale G to defeat Tang 'A', 36-32. In another tight contest, the Little Green Men edged past the Burton 5 Smokers, 33-32, rounding out the A-league action.

Leading A-league scorers:

| Name         | Team         | Ave. |
|--------------|--------------|------|
| McHale       | Conner 3 'A' | 17.0 |
| Felton       | SAE          | 17.0 |
| Christiansen | Tang         | 16.0 |
| Abkowitz     | LCA          | 15.5 |
| Deadwyler    | Macks        | 14.0 |
| Woerner      | Chem. Eng.   | 13.0 |
| Bookbinder   | Burton 5     | 13.0 |
| Straff       | LCA          | 12.0 |
| Harris       | Tang         | 12.0 |

Soccer loss ends disastrous season

By Glenn Brownstein

John Astley's three goals and one assist led Coast Guard to a 6-3 win over MIT's varsity soccer team Saturday at Briggs Field in the Engineer's final game this season. The loss set MIT's final season record at 1-10-2, one of its worst marks in history.

The game was unlike most MIT soccer games this year in that neither team exhibited any consistent short passing attack but instead seemed content to base an offense on short downfield chips and clears. There was very little tackling, as most changes of possession resulted from interceptions of passes.

The talent difference between the two squads was negligible, but MIT's defense played a much looser game than Coast Guard's, and as a result allowed the Bears many more scoring opportunities.

Coast Guard took advantage of an Engineer defensive lapse seven minutes into the game, as Kevin McNaughton took a Bob Opkins chip, dribbled past one man, found himself wide open about twenty yards out and booted a shot just under the crossbar and over the reach of MIT goalie Charlie Sommer '76.

Just two minutes later, MIT tied the score on a Shin Yoshida '76 thirty yarder. Engineer forward Steve Rice '78 trapped a throw-in, beat his Coast Guard adversary, and tapped the ball to Yoshida, who pumped his shot into the right side of the net.

After about fifteen minutes of open field play, Astley tallied two goals within two minutes,

one a rebound from a corner kick that Sommer stopped but subsequently lost and the other a breakaway, to give Coast Guard a 3-1 lead.

Despite the two-goal deficit, play was such that it still seemed that the Engineers might be able to stage a comeback. However, the one thing that could effectively kill off any rally hopes happened for the third or fourth time this year - a late first-half goal by the opponents. This time, the crusher came ninety seconds before halftime as Bob Murray took an Astley pass during a scramble in front of the Engineer net and drove it through a crowd to make it 4-1.

This goal, more than anything else, took the fight out of MIT, as Astley completed his hat trick at 13:47 of the second half on a right-to-left punch shot and Ed Welch put in a "garbage" goal fifteen minutes later as Coast Guard completely dominated the play.

Trailing 6-1, MIT staged a small rally as captain Ray

(Please turn to page 7)

Hellenic rolls to soccer title

By Tom Stagliano

For the second year in a row the Hellenic Athletic Club, composed mainly of Greek graduate and undergraduate students, won the coveted Viano Cup, given to the best intramural team at MIT.

After finishing first in the A-league during the regular season, Hellenic handily defeated a fired-up Aero/Senior House team, 3-0, on November 3 to claim the trophy.

The Greeks advanced to the finale after defeating the fourth-ranked Math team, 4-0, the previous day, with their center half, Ted Boufounos G, and center forward, Chris Covlacas G, dominating play and scoring two goals apiece.

Math mounted several attacks on goal but could not get a scoring combination together, and was stung twice as Hellenic fullbacks made two brilliant moves on open net shots.

Hellenic scored quickly on two corner kicks with Boufounos adeptly maneuvering to beat the Math goalie on a header and on a loose ball in the goal area. The third goal came as the result of a penalty kick for a hand ball foul. Late in the second half, Covlacas dribbled past half of the Math team, firing an off-balanced shot to the opposite side of the net to the complete surprise of the Math goalie for the final tally.

Aero/Senior House won a berth in the championship game with a surprising 1-0 upset over the African XI team. A combination of good midfield play and a staunch defense enabled Aero/Senior House to post the shut-out.

The only goal in the contest was scored early in the first half when an alert center forward, Adrian Bejan G, capitalized on a loose ball in the goal area and drove it home past the outstretched African goalie.

Composed mainly of graduates and undergraduates from Senior House and the Aeronautical Engineering Department, the squad is vastly improved over last year when the Africans defeated them 8-1. Many of the team members are former junior varsity players, coming from Brown, Illinois, West Point, and MIT. The squad is anchored by a Belgian student in goal, Christian Colson G, who by far is the most acrobatic and dominant person to play in goal since a former Boston College keeper played for Food & Nutrition Science two years ago.

The championship game, however, featured seventy minutes of Greek-dominated soccer. At the outset of each half, Hellenic scored quickly on excellent crossing passes by their right wing, Tasos Giannotas '74. The final tally, late in the second half, resulted from a penalty kick for a hand ball foul.

The strong Hellenic offense caused the Aero/Senior House team to fall back on defense,

(Please turn to page 7)

IM basketball results:

|                      |    | A-league                  |    |
|----------------------|----|---------------------------|----|
| Chemical Engineering | 33 | Ashdown                   | 30 |
| LCA                  | 44 | MacGregor 'Z'             | 23 |
| Little Green Men     | 33 | Burton 5 Smokers          | 32 |
| DU                   | 34 | FIJI                      | 32 |
| Conner 3 'A'         | 36 | Tang 'A'                  | 32 |
| SAE                  | 41 | DTD                       | 30 |
| BSU                  | 27 | Plumbers                  | 21 |
| "The Macks"          | 49 | Baker 'A'                 | 20 |
| LCA                  | 34 | Chemical Engineering      | 32 |
| MacGregor 'Z'        | 36 | Ashdown                   | 29 |
| Baker 'A'            | 50 | Burton 5 Smokers (OT)     | 47 |
|                      |    | B-league                  |    |
| KS                   | 24 | Theta Chi                 | 19 |
| Sloan                | 34 | Delta Psi                 | 13 |
| Baker 'B1'           | 23 | TDC 'B'                   | 27 |
| SPE                  | 24 | DU                        | 17 |
| Baker 'B2'           | 37 | Lacrosse                  | 24 |
| Nuclear Engineering  | 41 | Operation Research Center | 34 |
| AEPi                 | 39 | SAE                       | 26 |
| FIJI                 | 28 | BTP                       | 14 |
| Jack Florey I        | 73 | Baker 'B3'                | 15 |
| Baker 'B1'           | 23 | PSK                       | 2  |
|                      |    | C-league                  |    |
| Burton 5 Smokers '4' | 54 | MacGregor F               | 8  |
| MacGregor H Turkeys  | 23 | TDC 'C1'                  | 12 |
| ZBT 'C2'             | 28 | Conner 3 Puds             | 15 |
| Sloan 'C'            | 26 | Theta Xi                  | 18 |
| MacGregor            | 29 | KS                        | 16 |
| PiKA                 | 50 | Jack Florey II            | 10 |
| MacGregor G          | 30 | Electricians              | 20 |
| Spanish Inquisition  | 38 | PDT                       | 16 |
| Epsilon Theta        | 38 | Theory of Computation     | 26 |
| Fenway House         | 40 | TEP                       | 16 |
| Sigma Chi            | 44 | Senior House              | 11 |
| MacGregor G22        | 28 | BSU 'C'                   | 25 |
| ZBT 'C1'             | 26 | Conner                    | 19 |
| DTD                  | 16 | FIJI                      | 14 |
| ATO                  | 45 | Baker 'C3'                | 6  |
| PLP'B'               | 25 | NRSA                      | 14 |
| Baker 'C2'           | 21 | Burton 5 Smokers 'X'      | 20 |
| Bexley               | 31 | PMD                       | 28 |
| SAE                  | 38 | MacGregor A               | 16 |
| TDC 'C2'             | 34 | Russian House             | 24 |

sporting notices

The IM Hockey Referees' Clinic will be held at 7:30pm Wednesday, November 13, in the West Lounge in the Student Center.

\*\*\*\*\*

The IM wrestling tournament will be held this Saturday, November 16, in the duPont Wrestling Room. All teams participating are urged to send a representative to the seeding meeting, which will be held tonight at 8:00pm at SAE, 484 Beacon Street, Boston.

\*\*\*\*\*

The women's swimming team is now practicing daily at the pool at 5:45pm. All interested, including graduate students, are invited to attend. For more information, contact Mary-Lou Sayles, x3-4920.



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