

Elevator engineer analyzes system in Student Center

By Reid Ashe

Bill Brown '56 is in one of the most unusual lines of engineering work in the world: he specializes in designing elevator systems.

The holder of almost all the elevator "software" patents in existence, Bill is frequently called in by architects for consultation. His firm, Brown & Murphy Associates, has to its credit successful and original designs throughout the world. His current project is that of designing elevator software for New York's World Trade Center.

Elevator software, briefly explained, is the art of achieving the maximum degree of efficiency and passenger convenience in a tightly-confined one-dimensional system. Involved in the process are such basic concerns as picking the right hardware for the job, and such subliminal concerns as human reaction time and walking speed.

Student Center Elevators

To clarify the concerns involved in his field, Bill consented to make a brief commentary on the more blatant faults of the Student Center elevator system.

"The Student Center elevators are a disaster . . ." began Brown after a brief investigation. "What you have are two completely independent systems, each of which is forced to do the entire job." The job, he explained, is that of responding to a call on a specific floor.

"You have on one hand the matter of duplicity of effort, which is bad enough by itself," and on the other the "idioty" of the physical placement of the two units. Brown said that the joint efficiency of two independent units as a function of distance of separation has a peak at zero, then goes down, and rises again at infinity. (The function also varies with obstacles, both physical and visual, between the two.)

"The separation you have here is just about at the minimum of the efficiency curve." What happens in practice is that a person wishing to go down presses the down buttons on both elevators, and stands by one of them. Probably a third of the time it is not that elevator, but the other one which first arrives. The system is slowed down not only by having both elevators answer the call, but also by having that person walk the thirty feet or so while the car is waiting for him. "Believe me, that is a significant retardation factor, and one which we constantly try to eliminate in our consulting work."

Software can help

Brown noted that the Student Center elevators were a particularly

(Please turn to page 5)

Progress report

Cambridge housing group will reconvene tomorrow

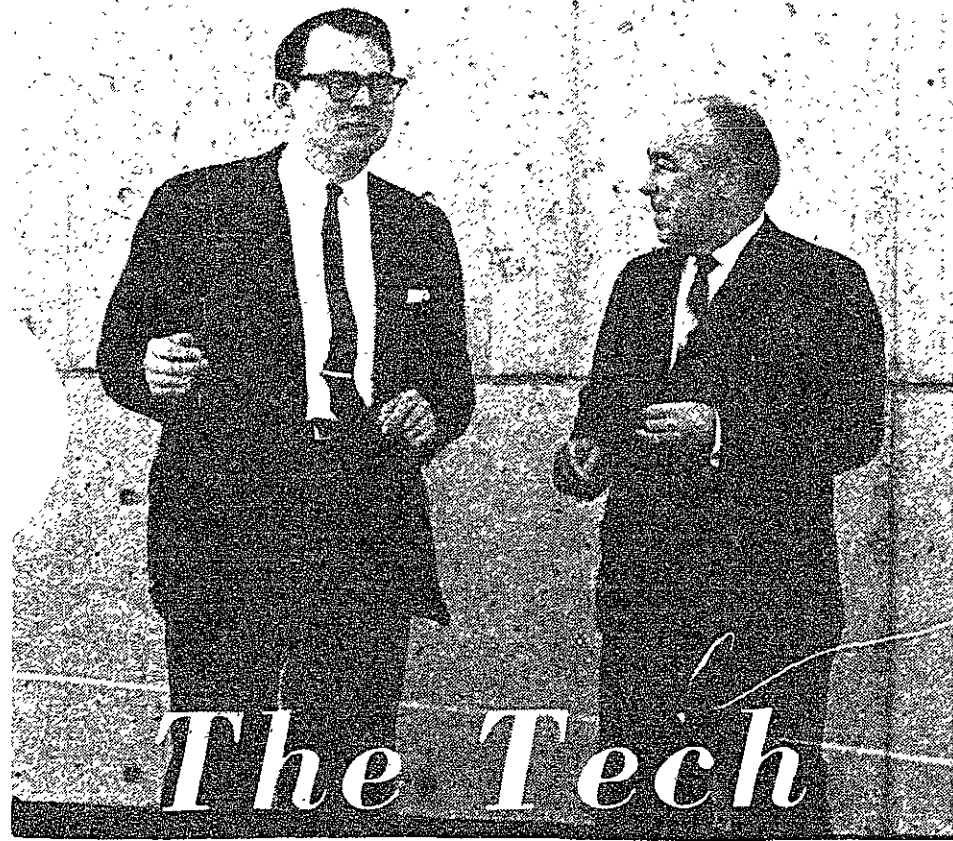
By Bob Dennis

The housing problem in Cambridge remains in the forefront of community news as the second Cambridge Convention on Low-Cost Housing prepares to convene tomorrow. In other developments, residents of East Cambridge approved the Model Cities Program and the MIT Graduate Student Council presented a series of recommendations on housing to the administration.

Second Convention

The first Housing Convention on September 14 attracted nearly 1000 Cambridge residents and sparked a series of confrontations between the community and both the Cambridge universities and branches of the city government. Demands for action centered on the lack of low-rent housing for the elderly and caused accusations that student housing policies of the universities had caused the shortage.

Since the last convention, the Cambridge City Council has appointed a special committee to investigate and recommend on the problems of low-rent housing for the elderly. The



The Tech

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Friday, December 13, 1968

Five Cents

Labs on campus

CSR aids NASA program

(Ed. Note: This is the second in a series.)

Dave deBronkart

A NASA satellite designed and built by MIT's Center for Space Research (CSR) may be launched within the next 18 months according to Prof. J.V. Harrington, CSR Project Director.

The satellite, named Sunblazer, will be a solar-data-collecting unit. Using radio-propagation methods, it will attempt to determine the characteristics of the extended corona around the sun, and the nature of interplanetary space.

Two categories

Sunblazer is one of many projects in many areas currently under way at the CSR. Prof. Harrington divides these projects into two categories, according to the nature of the research each does. While Sunblazer he says, is a project with specific research objectives, many projects are more general "seed research," looking for general ideas and concepts.

While its main aim has been the investigation of space and its nature, the entire space race has generated widespread side effects. These effects

are a major concern of the CSR, in the seed research category.

For example, the rapid travel which space travelers will undergo has also raised many questions about the biological effects of such travel. Prof. Nevin S. Scrimshaw is currently involved with research into biological rhythms, an area that has developed

almost entirely out of the space industry. Nutritional problems are among the other life sciences affected by CSR research.

Assoc. Prof. Eugene Skolnikoff and Edward Roberts are investigating the social implications and consequences of space science, and the race to the moon. Under consideration are the human factors and effects of the massive technical changes taking place, and many of the side effects and by-products in technical fields which have been offshoots of the space race.

Space Science Group

The Space Science Group, one of the larger groups involved in major projects, is mainly concerned with interplanetary physics, particularly with x-ray astronomy techniques. A major concern is the localizing and resolving of the many new x-ray sources which have been discovered in the galaxy, in an attempt to understand and define the emission mechanism.

Sunblazer, of course, is the other of the major projects. The satellite has been under development for the last four to five years; Prof. Harrington says he definitely does "expect a launch within the next year, year and a half or so." The instrument capsule will be launched atop a NASA Scout rocket, as a joint project. Unlike many starved NASA projects, Sunblazer has already received specific Congressional appropriations for completion of the mission.

Institute security up against a wall



Photo by George Flynn

Decaying brick wall of top-security Bldg. 1L5A at 199 Mass. Ave. is pierced by errant wrecker's crane. Mishap occurred 10 am. Thursday.

Long wait foreseen

Brandeis Sanctuary settles down

The Brandeis Sanctuary settled down this week for the long wait for the bus.

The anti-war community on the Waltham campus seemed to be following the pattern set at the Institute, as attendance, particularly during the day, seemed to be slowly falling off due to the pressure of classes. In the evenings, however, supporters of AWOL Sp/4 John Rollins continue to return in substantial numbers; over 100 were present Wednesday night.

Friction between the Sanctuary and citizens of Waltham, which reached its peak in an ugly attack on Brandeis students which took place in the Sanctuary Saturday, had apparently subsided. The University has indicated its willingness to use a portion of the factory it owns near campus for use as a meeting ground for Brandeis and Waltham High School students.

Little thought has apparently been given by the Sanctuary steering committee to the possibility of moving the Sanctuary from its present location in Mailman Hall. Ami Schwartz, Brandeis '69, a spokesman for the coalition of various elements in the Brandeis community which is sponsoring the Sanctuary, said that it was the feeling of the group that a change of location such as occurred at the Institute Sanctuary would not be needed. No schedule conflicts in the use of Mailman Hall are imminent, and the

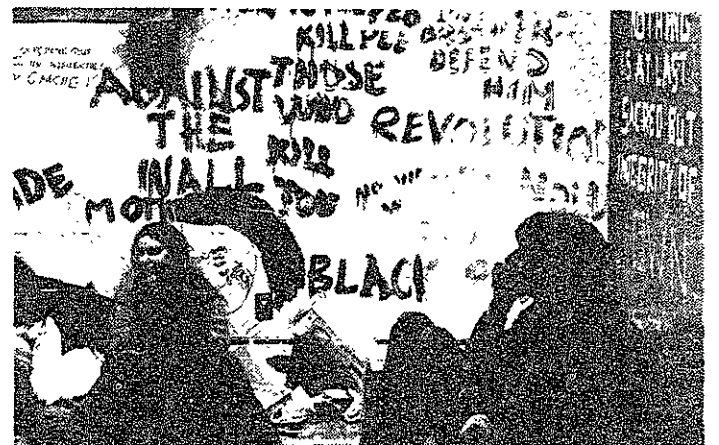


Photo by Jon Borschow

As the Brandeis Sanctuary moved into its eighth day, signs began to abound. In fact, even the signs had signs, which had signs, which had been erased. Administration at Brandeis has taken a strictly "hands off" attitude.

Rollins has been resting a great deal to avoid the exhaustion which plagued Mike O'Conner here. The only major problem which could severely cripple the Brandeis Sanctuary effort if interest remains high is the deterioration in student ranks which will come over Christmas.

Committee heads discuss publicity

By Charles Mann

The old issues of student participation in the decision making process were given a rehash by the Committee of Committee Chairmen (CCC) at a meeting Monday. The discussion group, consisting of student members of faculty committees, committee chairmen, and other interested persons tried to center its attention on student participation, government structure, and agenda. The argument centered around communication of the aims and actions of committees. This was assumed to be important and the essential point since the general consensus was that the faculty meetings did not really decide anything, since all the issues discussed in the general meetings are first considered in committee meetings. It was also apparent that the people present at the meeting thought that the committee system could be made more effective if certain changes were made.

Changes Suggested

The changes suggested centered around communication of the activities of the committees and the formation of some new groups. The proposals for the improved communications follow:

1. All committees should be required to submit agendas for publication

2. All committees should publicize their meetings well in advance and should make available the names and addresses of the committee members.
3. All committees should hold, at more or less regular intervals, open meetings to discuss their purpose, aims, plans, past actions, and mode of operation.
4. All committees should submit and have published descriptions of their functions, in a general sense with particular reference to the sorts of problems which might be referred to that committee.
5. That all committees should publish in The Tech, or Tech Talk, or perhaps in handouts, their current activities on a short-term basis.

Committee Membership

Other suggestions relating to existing committees were that membership in committees should be open to all interested persons who are willing to make a serious and continuing effort to work with the committee.

A suggestion for improving the structure as a whole was made with reference to the importance of departmental problems to the students. The suggestion was for the formation of joint student-faculty committees to consider departmental requirements, course material and all the host of other matters of academic and non-academic concern associated with the departments.

The essential viewpoint of the discussion was phrased by one of the moderators: "The question is not of openness of meetings but of openness of structure." It was felt that the proposals for communication would make the already existing structure more accessible to both students and faculty.

The CCC will review the suggestions and present most of them in more explicit form for further discussion.

Pass-fail probed at Monday meeting

By Joseph Kashi

About 150 persons directly concerned with freshman academic performance heard detailed comments directed at the Committee on Freshman Performance at a meeting Monday in the Sala de Puerto Rico.

The purpose of the meeting was evidently one of factfinding rather than presentation by the Committee, as the entire meeting was taken up by comments, mostly from freshmen. The first segment was devoted to an evaluation of the limitation of freshman course loads to 54 credits as a general maximum unless petition was made. At this point, the Committee stated that the philosophy behind this limit was that under the pass-fail system, many freshmen might attempt to accumulate credit by taking as many courses as possible and barely passing them all due to a highly overloaded schedule. However, many exceptions may be made, with

(Please turn to page 3)

Engineering and Science at IBM

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An Associate Engineer at IBM, Nick is a 1967 graduate in Electrical Engineering. He's using his technical background to design circuits for computer memory systems.

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Nick describes a hypothetical case history: “A systems man comes to me with tentative memory design requirements. Before I can design memory circuits to satisfy these needs, I must first identify an appropriate device technology. The physicists who make our monolithic circuits provide me with device data and specifications.

“As the design progresses, I use the services of a circuit-testing group and keep constantly in touch with systems and device people to spot potential problems.”

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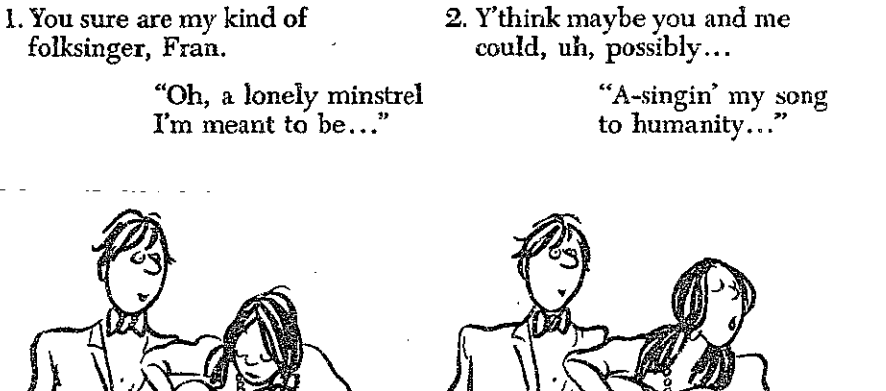
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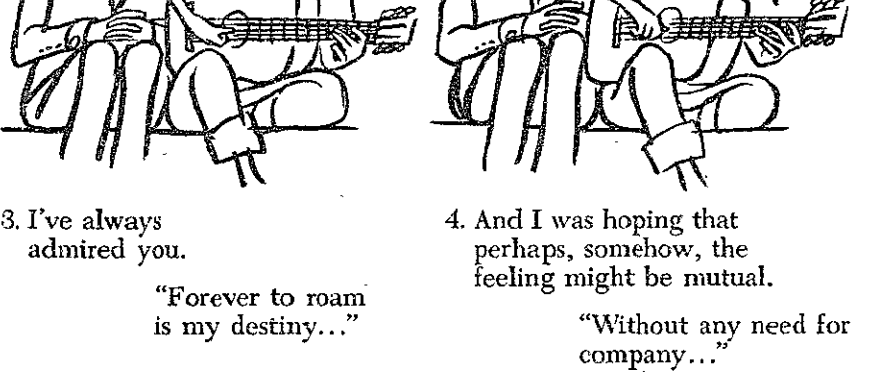
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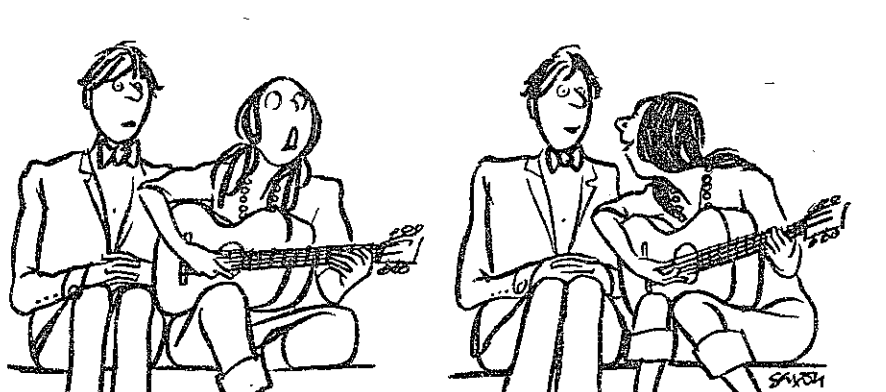
1. You sure are my kind of folksinger, Fran.
 "Oh, a lonely minstrel I'm meant to be..."



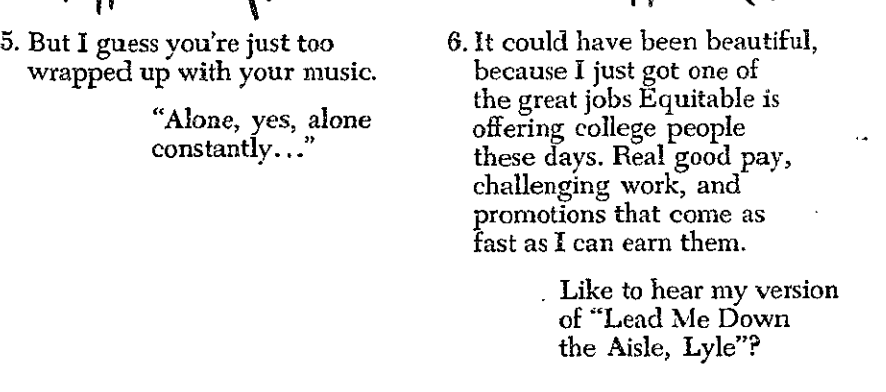
2. Y'think maybe you and me could, uh, possibly...
 "A-singin' my song to humanity..."



3. I've always admired you.
 "Forever to roam is my destiny..."




4. And I was hoping that perhaps, somehow, the feeling might be mutual.
 "Without any need for company..."



5. But I guess you're just too wrapped up with your music.
 "Alone, yes, alone constantly..."

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Baird seeks public support

By Bob Dennis

"Where is the conscience of MIT?" This was one of the major points of Bill Baird as the noted birth control advocate criticized the lack of faculty support he has received in his crusade. In an interview, he discussed the background and the purpose of his case which is currently before the state's Supreme Judicial Court.

He pointed out that, while the MIT faculty does not hesitate to speak out on Vietnam, "birth control" seems to remain a dirty word to them. He added that they lose no time calling him, however, "whenever their girls get pregnant." In a plea for public backing, he called for MIT to "turn loose its brainpower" in his behalf.

One-man fight

He described the ordeals of his 'one-man fight' which he is carrying on although he himself has nothing to win. He is \$50,000 in debt and is branded as a felon, which means that he cannot vote. Although the state's birth control laws are "so greatly unconstitutional," he fears that he will be financially unable to carry on the fight at a higher level if he loses the present case. Facing the possibility of up to ten years in jail, he regretted that he doubts whether he could find anyone to take his place.

Baird charged that this area is far from being the "cradle of liberty," and is actually among the most backward. "Nowhere in the world" except in Massachusetts can one be imprisoned for presenting a lecture on birth

control. He pointed out the hypocritical and grossly unfair nature of the state's judicial system, asserting that no action is taken when department stores openly sell contraceptives. He related how Judge Elijah Adlow recently ruled "no violation" when Raymond's in Boston was found to be selling birth control devices. Under the state's laws, the owners should have received up to twenty years for selling the devices without a prescription and since, furthermore, they are not even a drug store.

Baird explained that, in seeking a precedent for the nation, he is fighting

for the unmarried who have a constitutional right to birth control, for the right of a baby to be born in a wholesome family atmosphere, for the right of students to stay in school rather than to have to face the unfortunate consequences of an unwanted birth, and to bring down the ridiculous law which can send a person to jail for merely exhibiting a pill.

He criticized a society that sends millions of dollars to India and Pakistan to assist the unmarried yet regards him as an evil influence when he is actually doing something of "very high morality."

Frosh approve pass-fail as successful experiment

(Continued from page 1)

57 hours being the de facto limit.

Evaluations Discussed

Evaluation forms for freshmen classes also came under fire from some angles. Among the problems encountered by both instructors and advisors were the confusion over what was to be evaluated and the tendency by many to deprecate themselves and their work. At one point a member of the Committee remarked that the forms were like a game that neither faculty nor students had yet learned to play.

The crux of the entire pass-fail experiment was reached only shortly before the meeting adjourned: whether the entire philosophy of pass-fail was desirable or not. Many felt that student motivations would be lowered as the pressure of grades was removed. This sentiment was countered by the feeling of many involved in the meeting, especially by the approximately 75 freshmen present, that they were working for a different and perhaps better motivation than grades: that of learning for the intrinsic value of knowledge. Also many freshmen volunteered that they

had learned a great deal more than academic subjects when the pressure was lessened. For this reason, the feeling was almost unanimous that pass-fail was an excellent modification of the MIT method of instruction. The question was raised that since the extension of pass-fail into the sophomore class was rejected, many would run into the same problem of competitiveness and high pressure as sophomores anyway.

Inscomm debates MIT Open House

By Tom Pipal

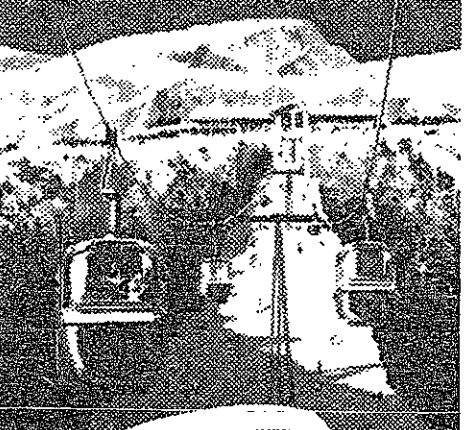
The question of whether or not to hold an MIT Open House this coming spring was the focal point of Wednesday's Inscomm meeting. The bi-annual Open House which usually handles somewhere in the neighborhood of ten thousand people has normally started organization on or before Thanksgiving. But as of yet, no action has been taken to find people willing to undertake the project. Therefore, the question of holding the Open House at all was raised.

According to Al Harger, a senior who was a moving force behind the Open House two years ago, a project of this magnitude would require the almost full time dedication of at least seven people. To try to find people interested in the project, interviews will be held this Sunday evening at 7:00 pm in Maria's office.

However, the question was quickly answered by Dean Hammerness' action of forming a faculty Committee to discuss the "form" of Open House. This committee outlined three main reasons for such a project (chance for the Institute to look at its progress, chance for great student-faculty interaction, great educational experience) and continued to state that Open House '69 should take the approximate form of past ones.

Another issue of interest was the continuing discussion of Inscomm reorganization. Maria Kivisild stated that there was no truth in the rumor that she supported the TANG proposal. Also, word has it that a counter proposal to TANG known as O.J. is in the offing. Dick Moen, Finn Board Chairman, was named to chair a committee that would consolidate the different proposals (which now number over ten) and write up the formal form of the student referendum by January 9, 1969.

Other announcements of interest came from the Student Committee on Environment, Student Committee on Educational Policy, and CEP. SCE announced a forum next Tuesday from 1 to 4 pm in Kresge concerning the physical changes which the Institute will undergo in the next few years. Running the forum will be the architecture firm which is supposedly planning the changes. SCEP announced a new, more thorough advisory and tutoring program for disadvantaged students. In the program, one advisor and two grad students would be responsible for five students. CEP announced that it was "seriously considering" the possibility of, with the consent of both student and teacher, making any course pass-fail. No formal motion has been made, but at least its in the works.



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The purpose of student government

Communication is a word which has been seemingly lost in the plethora of open meetings and forums held recently. Yet, in the final analysis, it is a subject which has received much attention and little actual work done on improving the day-to-day life of the average student.

We would like to consider this of prime importance in our consideration of the functions of student government. Quite frankly, one of the biggest problems facing Inscomm right now is that the average student simply does not know what committees such as SCEP and SCE are doing. He does not know where the money Finboard gets goes; in fact, he may not even be aware that Finboard gets any money. And, he is not aware of who his representative is so that he can seek that person out and find out what is going on.

This is brought about largely through the defect of poor representation. It is impossible for the three IFC representatives to visit all the houses and report on what has happened, and merely making a report

at the monthly IFC meeting will, in all probability, kill it at that point. We do not know what percentage of Burton House, for instance, attends house meetings, but we are willing to bet that a report on the activities of Inscomm is not given.

Therefore, the problem resolves itself into one not of a do-nothing body, but of an unrepresentative one in which even the members are not really aware of what the committees are doing. When was the last time that any Inscomm member took notes at a meeting, with the express intent of taking a report back to his constituency? Not within our memory.

Therefore, we would like to offer the suggestion that the committee on reorganization, when considering proposals for the referendum, seriously look at the question of which ones will best enhance this communication. It seems to us that once this has been found, the other functions of the student government will follow naturally, with increased communication leading to increased student interest.

Guest editorial

Response to Rabi

The decision to drop the atomic bomb on Japan must be viewed in terms of overall American diplomacy and the inability of scientific men of conscience to play any role in that decision.

The insistence of the United States upon total and unconditional surrender - a demand that was relentlessly pursued (although after the bomb and after Japan agreed, America did permit a condition) - meant that a settlement through diplomacy or through the existence of options was not possible. America built a strategy of "overkill," Russia was begged to agree to enter the war, and accordingly fulfilled her promise on time in August. Intelligence reports revealed a destroyed Japanese nation. The drastic introduction of a nuclear weapon should have been irrelevant, except in terms of forcing total acceptance of America's moral superiority.

Most disastrously, America's decision put her in the same position as Nazi Germany, where the genius of science "objectively" had become the possession of national state policy based on a total concept. Further, America entered World War I, after remaining neutral under the Monroe Doctrine toward Europe for a century, because the President

believed that Germany's introduction and use of a new weapon, namely the submarine, was immoral and an international outrage (just as part of the world has judged America's bomb by America's own WWI criterion.)

The men of conscience were not heard because of their military incompetence, although the Constitution specifies that the civilians, with President as Commander in Chief, act in the name of the nation. The nation knew nothing; many of those who knew and feared the consequences spoke but were considered out of place because they were not the military. With the ascendancy of the military, the military itself was divided, and those commanders did exist who considered the bomb unnecessary before it was dropped.

With the process of diplomacy blocked, with concepts of totality guiding the 'decisions', with the acceptance of values antithetical to traditional American values, with scientists silenced, the process of logic of unconditional surrender regardless of the existing condition ushered into existence a new age of terror.

Prof. Diane Clemens, XXI

Rome: 'Lower thine eyes, unto the hills'

By Jim Smith

WASHINGTON, Dec. 6 - Birth control is one of the 'good issues'. It continues to elicit from varied corners new and different arguments which rattle the thinking processes. This is a healthy situation for any institution which would rather face the occasional problem of maintaining relevance than an ultimate problem of a lost constituency.

One of the first appealing arguments against the Pope's famous encyclical, *Humanae Vitae*, was that it violated the Vatican's own principles of conscience. The Second Vatican Council went strongly on the record to say that all men ought to be "immune from coercion on the part of individuals or of social groups and of any human power, in such ways that one is forced to act in a manner contrary to his own beliefs, whether privately or publicly."

The significance of this proclamation would seem to be that hereafter none of the Church's own encyclicals could be considered binding.

The Catholic ban on artificial birth control is based, of course, on the sacredness of childbirth and of the purposes of sexual intercourse and marriage - which do not include personal pleasure. It is, several critics say, an anti-life attitude harking to the eras of burlap undershirts and purging by fire. It says that the flesh and life are basically evil (this is the meaning of original sin) and their pleasures must be avoided.

If, however, as the Roman Catholic church says, intercourse is only for the purpose of procreation, then the approved rhythm method must itself be a concession to the 'evils of the flesh.' How is conscious sexual pleasure during a 'safe period' any more 'natural' than conscious sexual pleasure with physical safeguards? Both defy the basic ruling against pleasure for its own sake.

A Methodist Bishop, John Wesley Lord here in Washington, recently made a counterpoint that the banning of birth control is immoral when the result is to produce children for whom there is inadequate means for survival. He asserted in a November 27 statement that: 'It is an evil thing to perpetuate and aid methods that spawn... millions of hungry human beings for

whom there is no adequate support of any kind.'

A Washington columnist, Joshua Lederberg, has added that medical evidence is gathering which suggests that the rhythm method itself may be medically hazardous. He cites some speculation by two doctors in *Nature* magazine that 'infrequent or mistimed coitus under the rhythm system will increase the chances that an egg will be fertilized (if at all) during its dying gasp rather than during its prime of life when it ought naturally to be fertilized,' in Lederberg's words. He too poses the question of whether any deliberate action can be called 'natural.'

Then there is the broader view. The encyclical, says ex-priest James Kavanaugh, 'has pronounced that the church will hereafter refuse to be relevant in society.'

Meanwhile, for those who had clung to Catholic teaching about birth control, the new reaffirmation of that doctrine (largely because of this debate) has only upped the ante of his faith.

John Ciardi, in his September 21 column for the *Saturday Review*, took the broadest view of the issue by distinguishing the 'humanistic priesthood' from the 'theological priesthood', thus confirming the extent of polarization over this issue.

The theological priesthood, says Ciardi, focuses on life as preparation for an after-life - the classical Catholic doctrine. The theological priest says: 'If it be God's will that a man suffer, or even that he create a family in which his children suffer, let him and let his family accept suffering joyously as the road to blessedness every saint has walked.'

The humanistic priest, on the other hand, is (to quote that ex-monk, Eugene J. McCarthy) concerned with 'the good life'. Especially acute is the problem of the American priest. 'His American thinking,' says Ciardi, 'must refuse to make peace with suffering that could so easily be prevented.' His is a pro-life attitude. The theological priest's attitude may not be bluntly anti-life, but it is pro-afterlife.

The question is whether the church's heavenward gaze will be too strong to allow Christian humanism to the earth-bound.

footnotes*

By Greg Bernhardt

45. A couple of weeks ago a large-red ambulance, complete with numerous rotating red lights, was sighted out back of the old Sancta Maria Hospital. The driver was talking with Officer Brown, who normally works the guard house at the parking lot behind Kresge. After the ambulance had left, Officer Brown explained that the driver didn't know that the hospital had vacated. "It's a good thing this wasn't an emergency case," he commented.

46. Overheard on the third floor of the Student Center the other night from a young lady to her date: "What's a Harold Federow?"

47. Technology Student Enterprises has finally unloaded its washing machine concession in Bexley Hall back to the housing office. The actor came after years of accusations by residents of that dormitory that TSE was taking advantage of the house in falsifying its records with respect to the amount actually received from the machines, refusing to return the rebate due the house each year, and refusing to let residents watch them remove money from the machines. TSE, in a final gesture of good will, has agreed to give Bexley a large share of the money received from the sale of the used washing machines and will make an arbitrary payment to the house of slightly more than \$50.

48. We understand that one of those "This property destroyed courtesy of MIT counter-guerilla unit" stickers found its way on the MIT electric car during the race with Caltech. And even better was the Caltech car which

somehow acquired one on the underside of its dashboard around the time the two cars met in the midwest.

49. Apparently the two Howard Johnsons actually got together for a dinner the other day. President Johnson remarked that he was always catching flak about 28 flavors and such. Whereupon the ice cream man commented, "Don't worry. I know I'm getting old when people ask me if I'm related to the President of MIT."

50. One of the first things to get used to in dealing with the Tech Coop is being a number. One young man apparently hasn't. Standing in the checkout counter with a pile of new books to be paid for, he was asked for his number. "Oh no, I don't have a number. I'm a civilian," was his reply.

51. The Student Times printed this entry under their listing of television programs:
 Tuesday (11-26) 10:00 WHDH (5): "60 Minutes" Television's news magazine covers birth control and eating out.

THE TECH

Vol. LXXXVIII, No. 52

December 13, 1968

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Front page photo of Dean Hammerness and Mr. Diamond by John Roverick.

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Letters to The Tech

MIT bureaucracy

To the Editor:

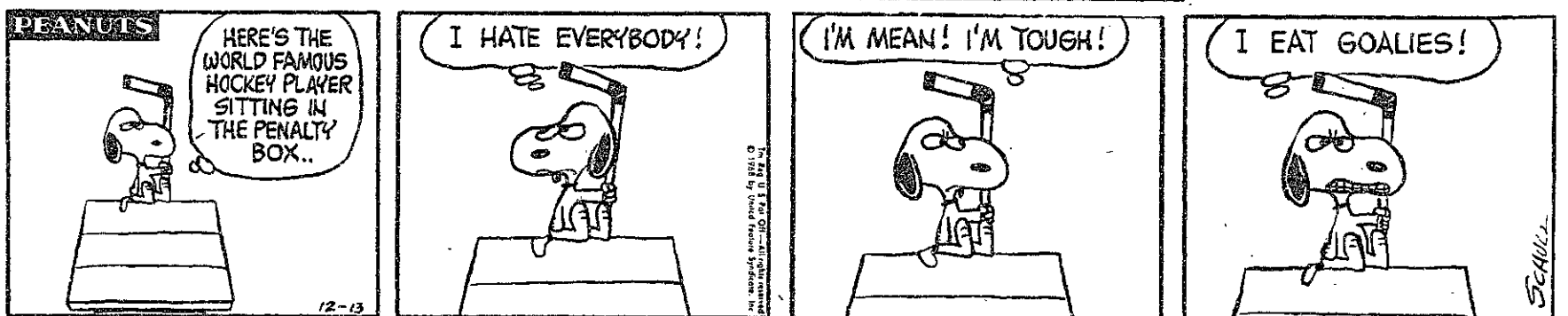
The refusal to re-hire Dr. Walter W. Rostow would be humorous if it were not so typical. According to a New York Times article in the wake of James Reston's column, the decision did not involve his views on Vietnam. Rather it seems to have followed a dialogue in which: (1) the economists said Rostow was now competent only in political science, (2) the political scientists said he was only competent in economics, and (3) the interdisciplinarians said that to fit between the two disciplines he first had to be in one.

The scenario is not original; Gilbert and Sullivan used similar ones several decades ago. Still, one might have hoped that MIT could have avoided it. A few years ago, in fact, I would have been quite depressed to see the MIT administrative process resemble that of a second-rate bureaucracy. Now, though, I am inured to it.

When will the faculty and staff learn that narrow rules can be molded to fit individual cases; that arbitrary regulations must always be subordinate to the students' welfare?

When, I ask, when?

John R. Ross, '67



Elevator expert knocks Student Center

(Continued from page 1)

good example of a situation in which software could help the situation considerably without the necessity of costly hardware modifications.

"Just off-hand, I would conjecture that a combination of three software features would best expedite the situation here." These features are what Brown calls "selective call," "180-degree deviation," and "passenger direction."

The selective call system is one which has been around for a while, Brown explained. "What this means is that when a call is made by pressing the button, a discriminator system analyzes the present and future movements of the elevator units involved, and decides which car will actually answer the call."

When the discriminator makes its decision, the "passenger direction" system, which is simply a system of signal lights, indicates to the passenger which car will arrive. This feature would eliminate the waiting time which presently impedes the system.

The "180-degree deviation" system, on which Brown holds a patent, is a complex logic system which makes the two cars tend to run approximately

180 degrees out of phase. Brown said that this system is best suited to applications in which the density of use is high, and in which there is no "preferred level." The Student Center, he said, is a classic example of this sort of situation.

Under \$20,000

"These revisions would be relatively inexpensive," Brown explained. "Depending on the ability of the manufacturer to conform to new requirements, you could probably finish the job for under \$20,000, all told."

Brown was in Cambridge briefly to visit friends, and came by the Institute to look around. He said he had not seen the place since he graduated, and wanted to see the new buildings. His tour naturally took the form of a "businessman's holiday," that is, taking a look at the elevators. He said he was particularly amazed by The Student Center elevators because of the "gross incompetence that went into their design."

Brown said that his firm, which is based in New York, makes most of its money from patent royalties, although most of its work is in consulting. His partner, Roger Murphy, is "an old friend with capital," who does not actually participate in the day-to-day workings of the firm.

When an architect is called upon to design a particularly complex system, he often draws upon the talents of Brown & Murphy. Generally, Brown finds himself using old ideas, but he frequently has to find new solutions to new problems.

Most challenging problem

Asked what was his most challenging problem Brown said, "That would probably be the Ministry of Economics Building in Brazilia . . . at least that is the project I'm the proudest of."

The building itself is an office building, housing a national bureaucratic structure which is

reflected in the layout of the building itself -- that is, the building is divided into blocks of floors for the various departments.

Physically, the building has 32 active floors, each with a floor area about the same as a Student Center floor. It was built in 1965, but Brown's work was done in 1963. Since the architect wanted a first rate job, Brown & Murphy was called upon to do a study of the problem.

Four-month study

Brown and one assistant spent four months in Brazil making a rigorous study of all factors which would enter into the design of the elevator system. Among the matters considered were: (1) a thorough study of the architect's plans, taking careful notice of who would be working where, and of where the major concentrations of traffic would be found; and (2) a thorough study of the elevator system and of traffic patterns in the old building from which the staff would be moving.

The architect's plans, which were in final form, called for three 20-person elevators which would run the full height of the building.

Brown's study indicated, however, that a slightly different arrangement was called for. "For one thing, there were certain clear patterns of local movement . . . The Treasury Department had the top five floors, and other departments had other blocks of floors . . . one would expect from our studies that there would be considerable circulation within the various blocks."

Modifications

First of all, Brown met with the architect and persuaded him to modify the floor plans to make four small (10-person car) elevator shafts instead of the original three, and to insert "spacer floors" between the various blocks. These "spacer floors" were one-floor allocations to relatively small, autonomous departments, and allowed the splitting of the elevator shafts into

two separate runs.

Two of the elevator shafts became full-service elevators, which ran the full 32 floors, while the other two became the runs of two local-service elevators each. Thus the system took into account considerations of local traffic, and the overlaps were planned with respect to calculated interdepartmental circulation.

The two full-run elevators incorporate Brown's own ground-floor sleep, top-floor sleep, and 180-degree deviation features. The entire system is unusual, Brown said, because it is uniquely designed around an administrative structure.

The elevator system was of course designed entirely before the building was constructed, and there was the expectation that possible revisions would be considered after a couple of years of use.

Clients pleased

As things turned out, the office workers were so pleased with Brown's system that they refused to co-operate in a later study. "When I showed up in late '66," Brown said, "they practically threw me out . . ." because they were afraid he might change the system.

When Brown graduated from MIT in 1956 in Mechanical-Engineering, he took a "hack job with Otis Elevators, mainly because I didn't have anything better to do." After two years with Otis, he had decided that the hardware angle was rather unpromising, but that there was room for interesting improvement in the software department.

He then set out to form his own company to specialize in the unusual field of Elevator software. Asked if he liked his work, Brown commented, "I wouldn't be in any other line of work even if it paid twice as much! He volunteered that he makes around \$100,000 a year, mostly from patent royalties. The consulting serves primarily to "keep me off the streets and out of trouble."

Announcements.

* The annual Christmas Convocation will be held Tuesday at 11 am in Kresge Auditorium. Following remarks by President Johnson, Bill Arthur '70 and Professor Huston Smith will speak on "The Significance of Christmas in the Twentieth Century." Classes will be cancelled between 11 am and 12 noon Tuesday.

* All students should obtain an examination schedule at the Information Office, Room 7-111. Examinations not listed, or a conflict in examinations, must be reported to the Schedules Office by Friday, January 3, 1969.

* The classes of '71 and '69 (plus the silent one) announce a winter weekend for February 28 through March 1, 1969. Curious?

* An Open Forum on the Issue of Grading will be held Monday at 12 noon in Kresge Little Theatre. Sponsored by Planning Professor Edward Schein, this will be the first of a series on key educational issues. Anyone interested in discussing the functions and effects of the various grading systems is encouraged to attend.

* Applications for admission to medical schools for the fall of 1969 are still being processed by the MIT Premedical Advisory Committee, and anyone who has not completed his application should do so immediately. Questions concerning requirements or procedures for medical school admission should be directed to the Advisory Committee, or the MIT Premedical Society, Room 5-106.

* The Pot Luck Coffeehouse will be open tonight on the third floor of the Student Center at 8 pm. Featured artist will be Lynne Kushner. Admission and refreshments free.

* The MIT Premedical Society will feature a talk by Dr. Melvin Glimcher, Head of Orthopedics at Massachusetts General Hospital, and Dr. Robert Mann, Professor of Mechanical Engineering, on the Boston Arm at 4 pm Monday in Room 1-190.

* The first hour of the videotape recorded Monday at the Open Meeting on the Evaluation of Freshman Performance will be shown nine separate times starting today in the East Lounge of the Student Center. Showings will start at the following times: today at 1, 2, and 3 pm; Monday at 2, 3, and 4 pm; and Tuesday at 3, 4, and 5 pm.

* Anyone who wishes to work on the Pot Luck Coffeehouse, or play in it, please leave your name and where you can be reached at x 3913, Monday through Friday, 9-5.

* There will be a meeting of the IFC at Valle's Steak House on route 9 Wednesday. Dinner at 6:30, cocktails at 6.

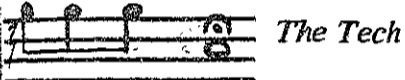
* The Outing club will present a lecture and slide show on white water canoeing by Ed Mattison of the White Water Club at its meeting Monday, at 5:30 pm in W20-407. At its January 6 meeting, MITOC will present a lecture and slide show on mountaineering in the Northeast. Time: 5:30 pm; place: W20-491.

* MIT Hillel will present a program featuring Nina Dinur, an Israeli working for an Arab-Israeli reconciliation. The meeting will be at 8:30 pm today in W20-473. All are welcome.

3 days 'til
BEETHOVEN'S
BIRTHDAY

Happy Birthday--

WOLFGANG



Roll Over Beethoven

THE URBAN CALENDAR

For Friday, December 13 until Christmas recess.

At MIT:

The Urban Systems Laboratory and the Center for Advanced Engineering Study will hold one seminar from the fall series:

Dean John P. Eberhard, Dean of Architecture, S.U.N.Y. (Buffalo), will lecture on Tuesday, December 17, at 4:00 pm in Room 9-150.

The seminar originally scheduled for Thursday, December 19, has been cancelled.

The Harvard-MIT Joint Center for Urban Studies will sponsor a lecture by Lee Rainwater, Sociologist, Washington University, on Tuesday, December 17 at 8:00 pm in Kresge Auditorium.

At Brandeis University:

Richard C. Lee, mayor of New Haven, Connecticut, will speak on "The Urban Challenge as Viewed from the Mayor's Chair: Leadership and Responsiveness." Mayor Lee will speak in Schwartz Auditorium at 8:15 pm on Tuesday, December 17. Admission is \$1.50.

Cambridge housing

(Continued from page 1)

control study and improved health services, such as a "hot-line" to the Cambridge City Hospital.

The model neighborhood area consists of 268 acres in eastern Cambridge, bordered on the north by Somerville, the east by the Boston and Albany Railroad Tracks, the west by Prospect Street, and the south by Main St. and Mass. Ave. The neighborhood is old, ailing, and crime-infested. Its 15,000 residents are predominantly Italian, Lithuanian, Portuguese, Polish and Black. Among the additional reasons for selecting this area were the hope of preserving a lower-moderate income neighborhood against the expansion of the Cambridge institutions and to protect against the possibility of the proposed Inner Belt cutting through the neighborhood on Elm St.

The Model Cities profile referred to the area's current problems of "high incidence of absentee ownership, little enforcement of the housing codes, demand for low-cost housing exceeding supply, and a spiraling inflationary housing situation."

GSC resolutions

At yesterday's Graduate Student Council meeting, motions were passed commending the MIT administration for its plan for 150 low-rent units in North Cambridge, its offering 112 of its housing units for consideration in the Leased Housing Program, and for the "courteous and patient response" it demonstrated by meeting directly with concerned local citizens.

In addition, the GSC recommended that: 1) MIT will do its utmost to seek that its technical resources on urban affairs be made available to appropriate city agencies and concerned citizens; 2) MIT desist from purchasing any further housing in residentially zoned areas for at least the next five years; 3) The MIT Planning Office begin studies for improving transportation to, from, and about MIT, in order to relieve the parking problem and make commuting by car a more viable alternative to living in Cambridge proper; 4) MIT

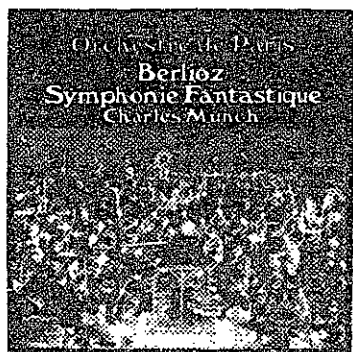
make available as many properties as possible to the Leased Housing Program; 5) MIT postpone the planned renovation of Burton House until at least 1975, develop plans for simple summer renovations of Ashdown House and place primary emphasis on constructing and improving on-campus housing for graduate students.

Sponsored by the Urban Systems Laboratory

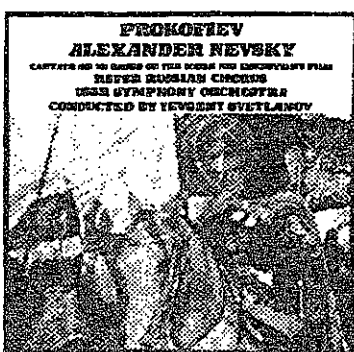
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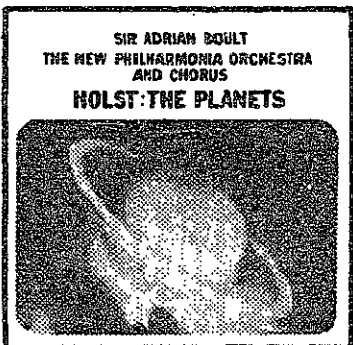
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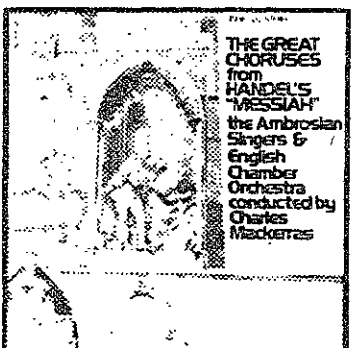
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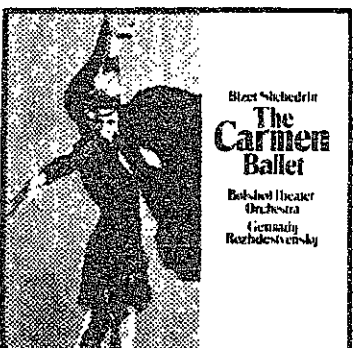
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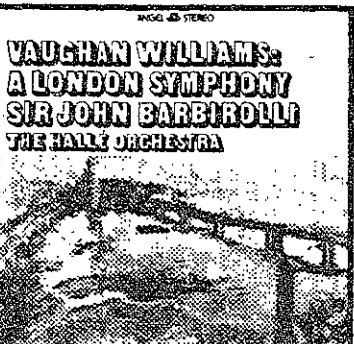
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The unusual in chamber music: double bass is added to the usual quartet of violin, viola, cello and piano. Virile, robust and appealingly rhythmic sounds are the result.



S-36478 (stereo only!)
Sir John and his Hallé Orchestra at their shining best in a compelling and very listenable stereo performance of one of this century's most popular symphonies.



S-36459 (stereo only!)
Melodious, whimsical, intriguing keyboard music of French "post-impressionist" Erik Satie. Ciccolini misses not a note of the music's razor-sharp wit and light-hearted charm.

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HARVARD SQUARE Open 'til 9, Dec. 16-23 M.I.T. STUDENT CENTER MEDICAL CENTER Longwood and Brookline Aves.

theatre...

Caravan Theatre excels in 'Iphigenia' adaptation

By Antoinette Young

The Caravan Theatre describes itself as "Radical Repertory Theatre." This has become a trademark of all ambitious new troupes who wish to present to the public their idea of "theatre" in the guise of legitimate drama. Unfortunately, often these groups adopt interpretations which are too esoteric or too personal for the audience to understand. Happily, the present group at the Caravan Theatre has, the year and a half of its existence, eliminated this fault. Their current presentation of Euripides' *Iphigenia in Aulis* demonstrates that a contemporary production of classical Greek play need not seek an artificial "message," but with proper treatment the performance itself will assume a subtle relevance to our times.

In staging, *Iphigenia* holds for the most part to the form of the original Greek festivals. The dialogue is essentially unchanged though the actors allowed themselves the freedom of reinterpreting the original Greek. There are even masks, mounted on long poles and carried, which identify each character at his initial appearance. This strict adherence to ancient form could have caused the audience's attention to flag; however, the small horseshoe-shaped theatre in which the Caravan company performed allowed, in fact forced, the audience into an informal rapport with the actors.

In spite of the limitations of the form, the actors manage to convey their interpretation of the drama through their portrayal of characters. Gary Steffens as Achilles conveys the difficult and elusive impression of a hypocrite who believes himself sincere and valorous. Peter Lago presents Agamemnon as a man torn between love and fear, trapped by the conviction that he must eventually kill his daughter; Menelaus (Bill Robinson) is deceitful and ever self-seeking as he urges Agamemnon to sacrifice Iphigenia to the future glory of Greece with an appalling disregard for human life.

The masks, carried about by other actors, add a new dimension to the play for they expose the hidden motives and foreshadow future results of the action appearing on stage. Menelaus, for all his outward concern, is "unmasked" as a coward and liar. Later, during the confrontation of Agamemnon and Clytemnestra which precedes Iphigenia's sacrifice, masks of the two characters repeatedly pantomime Agamemnon's future return to Mycenae and his wife's vengeance. This juxtaposition of present and future, reality and prophecy, reflects the Greek concern with the interdependence of cause and effect.

What significance does the play have today? Do the players successfully express its meaning? The actors make the play's relevance inescapably clear to the audience. Occasionally they allow their concern for the message to override their sense of drama, as when a painfully obvious reference is made to those who would make war "just to salvage... honor." But these momentary lapses are negligible flaws in an otherwise superb presentation.

To watch the play, its excellent cast and its imaginative form, is extremely entertaining. But the audience is not allowed merely to be entertained. Seen as a whole the production challenges the viewer to compare modern society to an odious caricature which the actors have called ancient Greece. When the viewer realizes he is watching a representation of himself and his society, he is irresistibly drawn into the conflict—and the purpose of drama is satisfied.

CHARITY DRIVE: \$2,866, twice the previous high, was collected in the TCA-sponsored Charity Drive. ZBT averaged the highest donation per man, \$7.35, and will receive the stereo, while Student House came in second with \$7.01 per man, and will receive a quarter keg of beer.

JUNIOR YEAR ABROAD: Freshmen and Sophomores who have possible interest should explore opportunities with the Foreign Study Advisor, Dean Harold L. Hazen, Room 5-108, promptly. Exploration now permits planning of second semester registration for any necessary language study and for planning the best combination of M.I.T. and foreign study program.

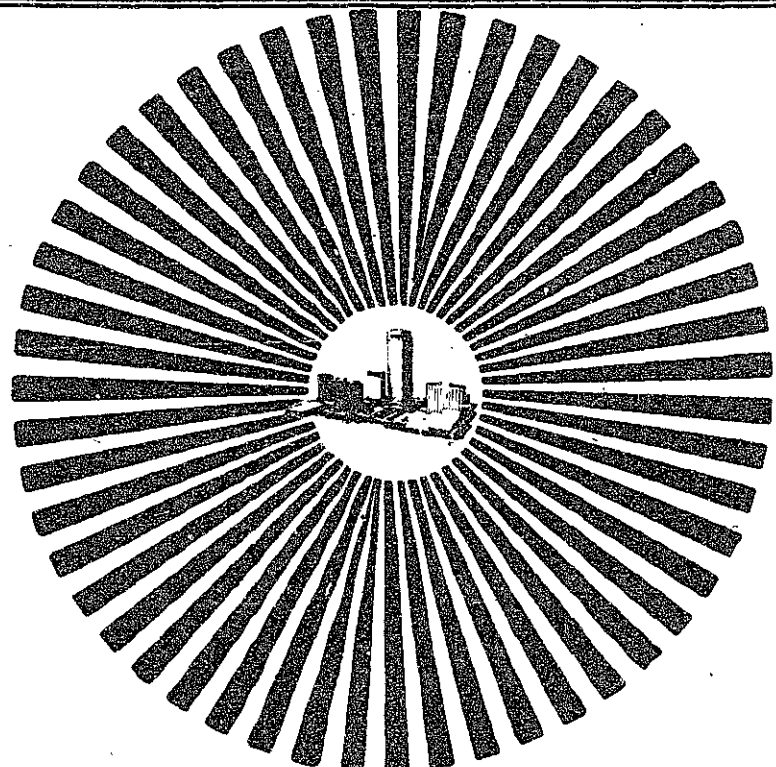
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theatre...

G. B. Shaw half-way at Charles

By Bruce Laird

The Charles Playhouse reached the midpoint of its season this year on a somewhat sour note. George Bernard Shaw's delightful comedy, "The Millionairess", is the current production. This version, however, lacks that polished sense of poise and confidence which is so characteristic of G.B.S. and his plays. The cast is capable in a disunited and somewhat individual sense. But the staging and direction is second rate and it mars the performance on more than one occasion.

Shaw is well known for his biting social satires, and "The Millionairess" finds him at his best as the play moves skillfully through hilarious social contrasts and jibes to reveal something

of the truth behind the type of character that our contemporary society has produced.

The story is initiated by the happenstance arrival of four individuals, Mr. and Mrs. Alastair Fitzfessenden, and their respective "Sunday spouses", Patricia Smith and Adrian Blenderbland, at the office of Julius Sagamore, a private solicitor. They all proceed to trade recriminations, and in the process reveal the history of the mismatch between Alastair and the millionairess.

At the beginning of the play, a divorce is in the air, but when all is said and done, everyone has either forgotten why they came, or else

changed their minds. And so they depart, Alastair and Patricia to their quiet anonymity, and Adrian and the heiress to a "rustic up-river tavern" called The Pig and Whistle.

After fighting with Adrian and putting him in the hospital with numerous injuries, Mrs. Fitzfessenden meets and forces her attentions upon a young Egyptian doctor (Nicholas Kepros), and finally asks him to marry her, revealing that she is a millionairess. He tells her that by his dead mother's behest, he cannot marry anyone who will not live for six months on two hundred piasters. She accepts the challenge and gives up her millions for the six months. Starting out as a scullery maid at The Pig and Whistle, she quickly gains ownership of the establishment, and elevates it from a run-down tavern to a fashionable weekend resort.

In a repetition of the situation comedy of the first act, Alastair and Patrician, Adrian and the solicitor, and Mrs. Fitzfessenden all turn up at The Pig & Whistle, and they continue to argue (with the solicitor as middleman) over who has the legal right to do what to whom.

The unruffled English exactitude of the solicitor is well captured by Robert Moberly, and his performance is the most consistent. Peter Coffeen as Alastair, and Joy Mills as Patricia, combine their parts in a convincing if mediocre way. Tom Lacy, who plays Mrs. Fitzfessenden's epicurean lover, gets off to a slow start, but eventually wins the audience with his pained and paunchy pride. Barbara Caruso gives a strong performance as the millionairess, even though she isn't sure whether or not they still use the pound in England.

The production, in spite of its shortcomings, is Shaw at his best. If you like sarcasm, and you haven't laughed in a while, it's worth seeing.

Making the Scene

Tonight, Dec. 13, at 8:30 pm in Kresge Auditorium the MIT Symphony Orchestra, under David Epstein, is opening its season. It will perform the American premiere of Sven-Erik Back's "Intrada per Orchestra" and the Boston premiere of Alberto Ginastera's "Overture to the Creole Faust", both contemporary works. Also included are Hector Berlioz' "Les Nuits d'Ete" and Franz Joseph Hayden's Symphony No. 100 (The Military).

Tonight and tomorrow evening, Dec. 13 and 14, the MIT Drama Shop is presenting in Kresge Little Theatre at 8:30 pm its last performances of the American premiere of D.H. Lawrence's "A Collier's Friday Night" and Emanuel Peluso's "Good Day".

HARVARD SQ. UM 4-4580
 Today through Tuesday the 17th:
 "THE QUEEN"
 3:55, 6:45, 9:50
 plus "THE UMBRELLAS OF CHERBOURG"
 2:15, 5:10, 8:10
 Starting Wednesday, December 18:
 "MAN FOR ALL SEASONS"

BRATTLE SQ. TR 6-4226
 Today and Tomorrow:
 "HERE WE GO 'ROUND THE MULBERRY BUSH"
 Sun-Mon-Tues December 15-17
 Melina Mecouri in
 "NEVER ON SUNDAY"
 Shows daily at 5:30, 7:30, 9:30
 Matinee Saturday at 3:30

theatre...

Craft Theatre's 'Salome' a bomb in every respect

By Robert Foweraker

Salome, Oscar Wilde's portrayal of the execution of Saint John the Baptist, is an expansive, ceremonious sort of play. It requires a large, imposing stage, one that makes no demands of intimacy. It needs a detailed set, and intricate staging, if the generally uninspired plotting is not to show through too heavily. And it demands a certain pomp in the acting, so that the excessively emotional lines can seem half-way natural.

At least, that's what it seems to need; with just the Craft Experimental Theatre's production to go on, considerations of this sort can only be speculated upon. Besides the small stage area, below and surrounded by the audience, this disastrous production managed to provide (in no particular order): (1) exceptionally crude and overdone staging, which managed to make much of the play seem, not just

unclever, but positively infantile; (2) musical effects exceeded in simple-mindedness only by some of the other special effects (the prophet's head lying on a tray would be almost funny if the thing weren't serious); (3) clumsy acting in the major parts, reminiscent of high school plays, and (4) no acting in the minor parts, producing (5) absolutely no sense of dramatic tension; all of which must be blamed at least partially on (6) poor direction. There is something to be said for the incense—it was certainly the most overwhelming part of the evening.

Admittedly, part of the problem is due to the set-up of the small, makeshift theatre; though there appears to be no pressing reason some more appropriate play couldn't have been chosen. (The Atma always seems to find plays that fit it magnificently.) Still, barring really exceptional improvement, there seems little hope.

Opens Dec. 18
 CINEMA
 KENMORE
 SQUARE



FACES

U.S.A. 1968

Director: John Cassavetes
 Screenplay: John Cassavetes
 Photography: Al Ruban
 Editor: Maurice McEndree, Al Ruban

Leading Players:
 Richard Forst: John Marley
 Jeannie Rapp: Gena Rowlands
 Maria Forst: Lynn Carlin
 Freddie: Fred Draper
 Chet: Seymour Cassel
 McCarthy: Val Avery

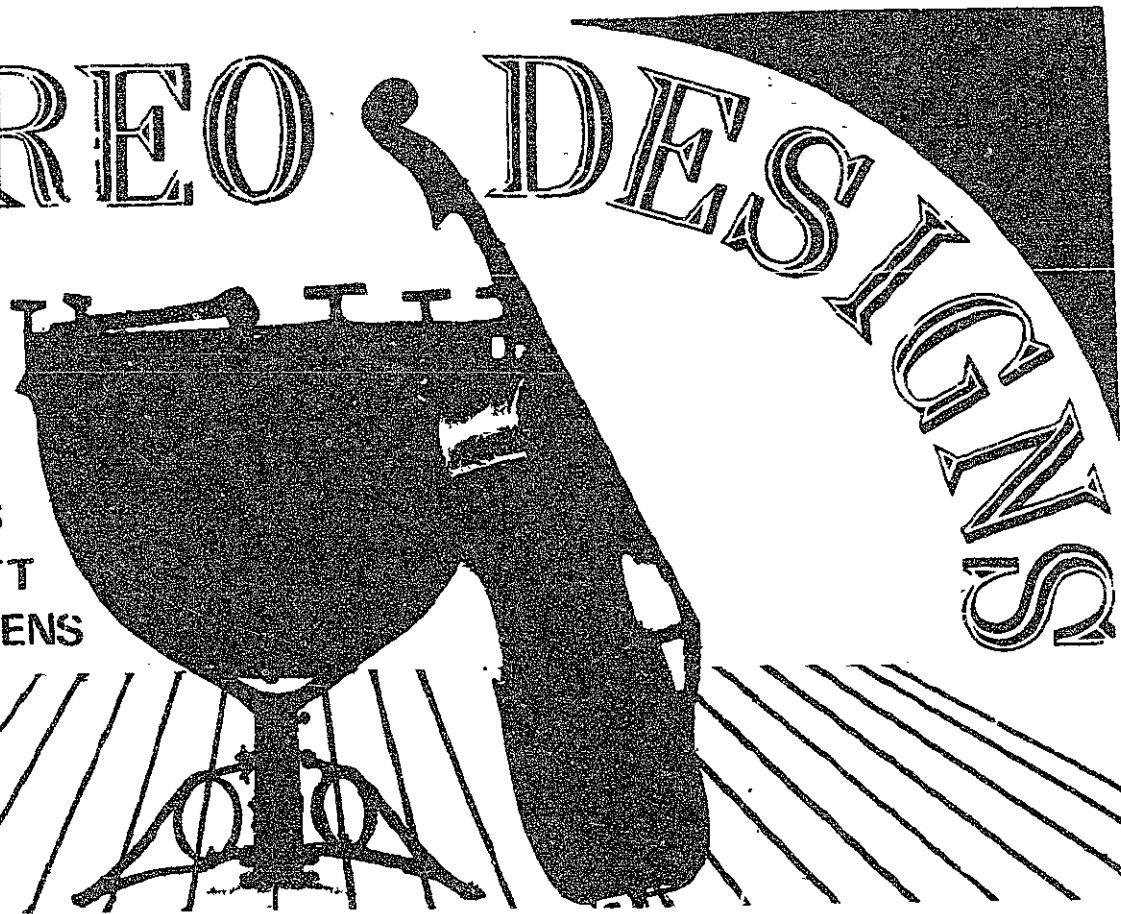
Venice Festival 1968: Prize for Best Actor (John Marley)

Running time: 130 minutes

John Cassavetes fulfills the directorial promise shown in *Shadows* a decade ago. *Faces* is a chunk of sustained characterizations and inspired improvisations carved out of affluently superficial Southern California Concerned almost exclusively with the heretofore delusions of pick-ups and pick-me-ups. *Faces* is never sordid or squalid. Cassavetes stays with his tormented, alienated characters until they break through the other side of die-of-life naturalism into emotional and artistic truth.

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Tufts routs Tech runners; Wilson takes two firsts

By Joseph Edwards

Ben Wilson '70 continued to be Tech's brightest star in the young track season. However, the varsity dropped its second meet in three starts to a surprisingly strong Tufts team. Despite Wilson's firsts in the one and two mile runs, the engineers were easily downed 65-39. Stiffer competition helped Wilson improve both of his times. He toured the one mile course in 4:22.6, knocking four seconds off his last clocking. Later in the meet, he cut his previous two mile time by a whopping fifteen seconds to 9:25.

MIT had only two other first place finishers. One of these victories was turned in by Kirk Wings '71, who managed to win the high jump at a height of 6' 3/2". The other engineer to garner top honors was Larry Kelley '70 with a 5.6 second time in the fifty yard dash.

Tufts demonstrated considerable depth by copping all but two of the seconds and four of the third places. Winners for the host team were DiVirgilio in the 35 lb weight with 51' 4," Dember in the broad jump at 22', Luca in the shot put with a 41'6" heave, Chendwelth in the pole vault at 15 feet, Seymour in the 45 yard high hurdles at 6 seconds, Robinson in the 1000 yard run at 2:20.6, and Stadeck for a 1:16 time in the 600 yard run. The powerful team piled up its solid point lead by taking all three places in the pole vault, the 45 yard high hurdles, and the 600 yard run. The mile relay also went to Tufts.

Other point scorers for the engineers were Bruce Lautenschlager '70, Bill McLeod '69, John Wargo '70, Stan Kozubek '69, and Larry Petro '70. Lautenschlager was third in the 35 lb weight and then finished second in the shot put. McLeod also scored twice. He broad jumped 20' 4", which was good enough for second, and later came back for a third in the 50 yard dash. Wargo

was third in the 1000 yard run. Kozubek also tallied with a third place in the one mile, and Petro followed Wilson to the tape in the two mile.

Tufts had four men who were able to score twice. Dember added a second in the high jump to his broad jump laurels. Hyland was third in the high jump and also second in the 45 yard high hurdles. Robinson was second in the 600 yard run prior to winning the 1000, and Parmelee had a pair of seconds in distance runs.

First loss of year

UConn downs swimmers

By Jeff Goodman

Despite some outstanding individual performances, a powerful UConn team handed MIT's swimmers their first defeat of the season with a 56-48 tally last Tuesday at Storrs, Conn.

UConn drew first blood by winning the 400 yard medley relay against a Don Riley '70, Tom Nesbitt '69, Jim Bronfenbrenner '70, Tim Gilmore '70 engineer squad. Co-captain Lee Dillely '69 struck back at the opposition by

By Jay Zager

A six foot eleven inch basketball player is the dream of every coach, but for Brandeis' K.C. Jones the dream is a reality. His name is Tom Haggerty, he's the tallest athlete in New England, and last Tuesday night he led the Brandeis' Judges to a convincing 93-72 win over MIT in a game played at Waltham. Whereas Tech normally fields a relatively small team, against the big Brandeis center they were helpless, as he led both teams in rebounding, while

scoring 21 points, the bulk of which came on easy layups.

Had the game started five minutes later, it might have been a different story, as the home team got off to a commanding 19-4 lead in the first five minutes of the game. Tech tried to stop Haggerty with a pressing man to man defense, but Brandeis guards Fred Poneman and Kevin Anderson were still able to feed Haggerty consistently for easy scores. When Tech was able to contain the big man, the Judges relied

on strong outside shooting to maintain and increase their lead. Boy Nayer, big 6-5 forward, was the key outside shot for the hosts, and he led both teams in scoring, finishing the night with 22 points.

When Haggerty came out for a rest, Jones brought in 6-5 center Howard Quinby. Quinby, a freshman, and Haggerty's heir apparent, showed his inexperience, and as a result Tech was able to cut the lead down, with the half closing with the score 42-30.

Haggerty was back in for Brandeis to start the second half, and consequently Tech was outscored 10-0 in the first three minutes of the half, thereby putting the game out of reach. Tech coach Jack Barry called on his bench to try to get the cold MIT shooters some scoring relief, but nobody was going to stop Brandeis that night. The final score was 93-72 but it was probably wasn't that close. With Brandeis top playmaker, Steve Katzman out with the flu, the game proved a good indication of the weakness of the Tech varsity five. Top scorer for the engineers was Nick Mumford with 14 and Bob Vegler with 12. However, neither were able to contain Haggerty, and neither was able to do much rebounding with the big center controlling both the offensive and defensive boards.

MIT's record now stands at 22, with the next game an away affair at Trinity on Saturday. No matter what the outcome, it's a cinch the Technicians will be up against a shorter team, and if its any consolation, they will never again see the 6-11 senior, who terrorized them last Tuesday at Brandeis.

winning the 200 yard freestyle event, clocking a 1:53.2 to tie the varsity record which he holds. Dave James '71, picked up a third.

AI Graham '71 and Luis Clare '69 swam to a one-three finish in the 200 yard IM with Graham establishing a new varsity record in that event at 2:10.4. After UConn's Shongalla and O'Brien swept the 50 yard freestyle sprint from Bill Stage '69 by a touch-out.

Technicians dominated the diving as Bob Rorschach '70 and Dan Gentry '68 overwhelmed the Husky divers on the one meter board. Although scoring was liberal, Rorschach piled up an unbelievable 318.75 points to win. Rorschach picked up his second win on the three meter board with a third place from Jesse Heines '70.

After the diving, UConn seemed to run away with the meet. The Huskies perpetrated three progressive slams in

Market '71 and UConn's Hassell. Market swam a tremendous race, keeping a nose ahead of Hassell for the first 175 yards of the race. Hassell came out ahead after the last turn and finished ahead of Market by a narrow margin as Market turned in his best performance cutting nine seconds off his previous best effort.

The engineers finished the meet on a strong point as Stage, Gilmore, Clare, and Dillely won the 400 yard freestyle relay bringing the final score up to 56-48.

The freshman swimmers were also defeated by UConn 54-50. Co-captains Pete Sanders and Pete Hadley were each triple winners as Sanders copped first in the 50 yard freestyle and the 200 yard breaststroke clocking a speedy 2:31.4 thereby establishing a new freshman record. Hadley won the 200 yard freestyle and butterfly events. Both swam in the victorious 400 yard freestyle relay.

the 200 yard butterfly; 200 yard backstroke, and 500 yard freestyle swim, forcing third places on Bronfenbrenner, Gilmore, and Clare. As a result of this three event slaughter, UConn needed only a second in the breaststroke to win the meet.

Best race for Market

In the 200 yard breaststroke, Nesbitt out-distanced the competition to win recording a 2:28.5. The real race occurred between Larry

Harvard takes early lead to top Tech fencers, 17-10

By Dale Geiger

The traditionally tough and well-versed Harvard fencing squad took advantage of a first round spurt to down the Tech team 17-10 Wednesday night.

As in the Brandeis meet last week it as the opponents early lead that proved fatal. Of the first nine engagements Harvard took eight.

Besides losing captain and first foilist Bob Gentala '69 to illness, the team also faced a disadvantage in meeting Harvard so early in the season.

"There is no question in my mind that if we could meet them in February

we could beat them," ventures junior sabreist Dave Rapoport. Unfortunately the next and last meeting will be shortly after the Christmas Vacation.

An individual breakdown finds Bob Markey '69 with a perfect three for three record in epee and Wally Miller '71 with two for three in sabre.

Posting single victories were Rapoport in sabre, Vince Fazio '70 and Dave Macklenburg '70 in epee, and Dawson Coblin '71 and Pat Tam '71 in foil.

The freshmen also lost to Harvard 16-11, but Nick Lazaris, Mike Asherman, and Carl Van Bibber demonstrated prowess in the foil events winning six of the nine engagements.

The varsity meets Brookline Polytech Saturday at 2:00 in Du Pont.

There will be an IM Council meeting Tuesday, December 17 in the Varsity Club Lounge at 7:30 pm. Refreshments will be served. Elections for ping pong, squash, rifle, and bowling managers will be held. Anyone interested should attend. Also discussion of IM points and their abolition will be on the agenda.

IM sports

Burton wins twice in A basketball

By George Novosielski

Burton House emerged the leader in IM basketball league A1 after the first week of play with a 2-0 record. League A2 had three teams tied for the top spot with 1-0 slates. Burton downed Theta Chi 55-36 with a good team effort in its opener as three Burton players hit double figures. Harold Brown '71 notched 19 points for the losers. Burton then crushed AEPi 52-29 as Don Scholz '69 scored 17 points.

Theta Chi evened its record at 1-1 with a 51-37 victory over a favored LCA team. Brown again led TC with 24 points and is now A league's leading scorer. Kappa Sigma and BTP have yet to play.

League A2

In league A2 PGD, SAE, and DU all won their openers. DU tripped up SPE 53-42; SAE, led by Ken Weisshaar's '71 17 points, beat PDT 43-33; and PGD sent PDT to its second straight loss 46-43. SPE came back to knot its record at 1-1 by outscoring PLP 51-38. George Katsiaticas '70 tallied 17 points as he was again high scorer for the Sig Eps.

Hockey

Only two additional A league hockey games were played in the last week along with numerous B league encounters. Burton House sent DU to its second loss in a row 3-1

Heller beats Greenfield in pool tournament final

By Don Arkin

Jim Heller '72 beat Alan Greenfield '69 in two straight games to capture the first place trophy in the 1968 edition of the MIT pool tournament. The final games, which were watched by 90 people, were won by scores of 100-73 and 125-70. These scores were an accurate representation of Heller's mastery which carried him through the tournament undefeated. He will now represent MIT in the New England regional pool tournament.

Alan Greenfield captured the second place trophy for the second year in a row. Last year he lost in the finals to George Pantoulas. He played well in the finals, but just couldn't match Heller's consistency.

Heller is a master at planning ahead on his shots. He usually leaves the cue in excellent position after each shot, thus making for long runs. His longest run in the finals was 19 balls. Greenfield, in comparison, is a more spectacular shooter. He pulled off some of the best shots in the tournament, but he couldn't keep up with Heller's scoring pace.

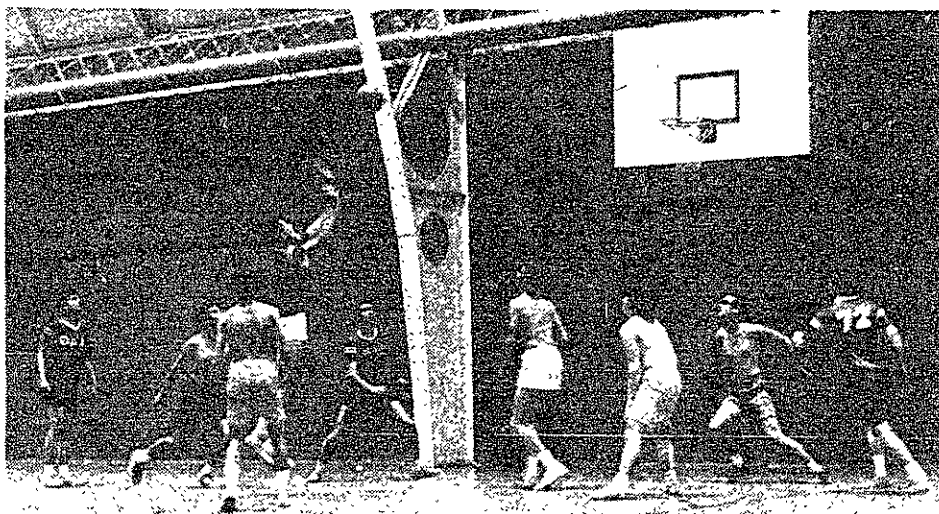


Photo by Craig Davis

A Theta Delta Chi player takes a jump shot, as PBE defenders move in for the rebound. TDC won the B league encounter. Burton House leads league A1 and three teams are tied for the top in league A2.

Wednesday in league A1. In league A2 Senior House whitewashed ZBT 5-0 in the opener for both squads.

LCA, TC, and Burton share the lead in league A1 with 1-0 records, while Chi Phi and Senior House are tied for the top with similar ledgers in league A2. SPE has not played as yet in the latter division.

B leagues

Heavy action in the B leagues had unbeaten AEPi and Kappa Sigma leading their respective leagues. AEPi shut out PKT 3-0 for its second victory

of the season, while KS trounced Sigma Chi 11-0, also for its second win, as Mike Perry '69 scored five goals to run his league leading season total to nine. Dave Storeygard '71 added three markers for the winners.

In other B1 league action ATO crushed Burton 'B' 13-0, as Chad Carpenter '71 tallied a double hat trick (six goals) for the highest individual total to date. Stan Bone '70 added a single hat trick for the ATOs. SAM edged Baker 2-0 and PKT and PKS battled to a 2-2 deadlock.

League B2 saw DTD split two games. They won their first 4-1 over East Campus with Stu Johnson scoring three of their goals, then dropped a 7-2 match to NRSA. Delta Psi trampled PMD 8-0 as Tom McNulty '70 and Dave Wells '69 each contributed a hat trick.

How They Did

Basketball

Brandeis 93-MIT (V) 72
MIT (JV) 112 - Emerson 30
Brandeis 84 - MIT (F) 69

Track

Tufts 65 - MIT (V) 39

Swimming

UConn 56 - MIT (V) 48
UConn 54 - MIT (F) 50

On Deck

Today

Squash (V) - Army, home, 7pm
Rifle (V) - Harvard, home, 6:30pm
Gymnastics (V) - Lowell Tech, away, 7:30pm

Tomorrow

Pistol (V) - Navy, home, 10am
Indoor Track (V&F) - Columbia, home, 12:30pm
Swimming (F) - Wesleyan, home, 2pm
Swimming (V) - Wesleyan, home 3:30pm
Wrestling (F) - Connecticut, away, 2 pm
Squash (V&F) - Wesleyan, away, 2 pm
Hockey (V) - Massachusetts, home, 7pm
Basketball (V) - Trinity, away, 6:30pm
Rifle (V) - Northeastern, home, 10am

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