Federal funds may be available to pay for MIT dorm construction

By Mike McNamara
MIT’s problems with financing New House and a proposed new dormitory may be eased a little by new developments within the federal government.

A conference committee of the House of Representatives and the Senate has approved language which will enable the Secretary of Housing and Urban Development to reopen the College Housing Program, which was closed in 1973.

Such an action would make about $36 million in long-term, low-interest loans and delinquent service grants available to colleges and universities to help finance student dormitory construction, completion of on-going dorm expansion plans, or renovation of existing campus housing facilities. MIT, which is still looking for $10 million of funding for New House and which hopes to replace $5.9 million of current institutional funds, would be the major beneficiary of this program.

Even so, the Senate is further along than the House, which only started hearings on HR 223 on May 3, and has yet to get the bill out of the subcommittee. HR 2223, sponsored by subcommittee chairman Robert W. Kastenmeier, D-Wisc., is identical to the Senate’s bill according to subcommittee legal counsel Herbert Fuchs. Fuchs expects final hearings on the bill by the end of this month, with the bill then going to the full Judiciary Committee. The legal counsel to the Majority Leader’s office expects the House to pass HR 2223 this year, but predicted that the bill would not gain both houses’ approval until sometime in 1976.

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“Continuous News Service Since 1881”

The Tech

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MIT, Cambridge, Massachusetts

Solving the world’s equation

By Daniel Nathan

As computers become more powerful and as the world becomes more complex, it seems almost inevitable that we will turn to mathematics and computer programs to help us solve the world’s problems.

At a recent conference on computer problems, Forrester outlined the history and roots of systems dynamics, which he and several other scientists used to produce the controversial MIT/Club of Rome study, The Limits of Growth. The study predicted that increased pollution and population would put a brake on mankind’s expansion in the 21st century.

Systems dynamics, Forrester said, is founded on three bases:

1. Classical observation, debtor and leadership as a method of analyzing the tremendous complexity of systems.
2. Non-linear dynamics, Forrester said, is founded on three bases: a workable model of systems dynamics - the role which they played in putting a brake on mankind’s expansion, and predicting what will happen in complex systems.
3. Computer science, as a tool to process data, handle information, and experiment with various systems under study.

Forrester said that although the social system is highly non-linear, a workable model can be made to study its behavior. He pointed out examples of systems in society, and the role which they played in interpreting the society’s action, stressing such models as the relationship between capital, labor, and production; the cycle of the effects of engineering on population, population on environment, and environment on engineering; and various business cycle models.

By Tom Mayer

The issue of copyright has been hotly debated with recent developments such as The New York Times, which the legislature intended to settle in a few months away from the campaign.

S1361, which the Senate passed last year, made library use of copies made for library use to photography, microfiche, or computer-based copyrighted materials. The issue of “fair use,” the concept which allows librarians and educators to freely copy copyrighted material for educational purposes, has appeared restrictive.

Librarians were concerned that publishers would use this bill to enforce the collection of royalties for every copy, thus tying up their right to photography, microfiche, or computer-based copyrighted materials. "The issue of "fair use," the concept which allows librarians and educators to freely copy copyrighted material for educational purposes, has appeared restrictive.

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By Mike McNamee
The MIT cable television system, stretching from Westgate and Tang Hall on West Campus to the Sloan Campus, has been installed and probably will go into operation in January.

A faculty committee yesterday sent a report to President Jerome B. Wiesner recommending that the cable be inaugurated with a "grand opening-type" show sometime during the Independent Activities Period in January, and suggesting procedures and mechanisms for allowing members of the MIT community to work with the cable network.

The system, developed under a $600,000 grant from the Sloan Foundation, will eventually handle up to 34 "terminal points" on campus where programming can be received on one or more receivers. According to Chief Audio-Visual Engineer Charles Paton, 34 to 37 locations will be installed and ready for use for the expected opening in January.

"The terminals are in the obvious places - the large classrooms like 10-216, and 26-110, the lobby of Building 7, all the dormitories, and so forth," Paton explained. "All of Building 9 (headquarters of the Center for Advanced Engineering Study) will be wired into the system, and there are a lot of other locations where there'll be terminals."

Paton said that the main spine of the cable, originally planned to stop at Burton House on West Campus, was

(please turn to page 3)
Old to new: Draper building moves ahead

Draper Laboratories, currently scattered out among more than a dozen Cambridge and Somerville buildings, are looking forward to consolidating their facilities in their new Tech Square headquarters sometime next spring or early summer. The building is being built by Cabot, Cabot and Forbes, the firm which developed Tech Square, and will be rented to Draper on a long-term lease. Draper spokespersons are reluctant to comment on the progress of the work—"It’s really CC&F’s building, and we don’t like to talk about it as if it’s ours," one Draper staffer told The Tech—but a CC&F spokesman said the building is on schedule.

MIT cable system readied for opening

(Continued from page 2) extended from Tang Hall and Westgate after a cheaper way of installing cable was found. That extension, he said, was the only cable installation remaining to be completed, while some roads still have to be installed at terminals.

"The important thing now is that the physical cable is in and it works," Professor of Political Science J. Paul Pool, who chaired the group studying the cable's use, told The Tech. "Now we have to decide how we're going to use it and what kind of things are going to be done."

The committee went into "all the obvious issues," Pool said—structure of the cable control, what type of programming to do, how to get people interested in using the cable, and so forth. Its recommendations, which Wiesner is expected to consider within the next two weeks, will probably form the basis for operation of the cable in its early stages. Pool said, "Right now, I really can't say what any of these structures are going to be," Pool explained. "Until Wiesner says 'go ahead' or 'don't go ahead', we're going to have to wait."

Once the report is approved or modified, Pool said, the committee will start working on the January opening and on long-term use of the cable system. "One of the main problems of the committee," he said, "is how to get the public interested in the cable, and how to get them aware of what's going on. We've had many inquiries about programming, material to be shown and so forth, but until now, there's been no place to address those questions. We hope that will get started within the next month."

The cable installation used "only a very small portion" of the $600,000 Sloan grant for the system, according to Paton. "Most of the money is designated for helping people do experimental things, letting them try different kinds of programming," he explained. "That's where the action's going to be in just a few months."

ROBERT COLES, M.D.
HARVARD UNIVERSITY

SIMONE WEIL: A LARGE GIFT TO RECEIVE

with ANDRE WEIL, The Institute for Advanced Study, Princeton

A Public Symposium Tuesday, 7 October 4:00 - 6:00 PM Lecture Hall 9160

OTHER FALL SYMPOSIA:

JAMES FOREST, former editor of The Catholic Worker
Dorothy Day and Simone Weil: Women in Social Movements with Professor Joseph Walsh, Philosophy and Religion Department, Stockton State College
MARY C. HOWELL, M.D. Science, Necessity, and the Love of God with Professor H. Davidson, Center for Moral Education, Harvard

SPONSORED BY THE DEPARTMENT OF HUMANITIES AND THE TECHNOLOGY AND CULTURE SEMINAR AT MIT
To the Editor:

Mr. Peter Pekarsky's letter published in "Opinion" (The Tech, Sept. 25) titled "Israel can't mean Nukes" is based on a common implied error, two of which have nothing to do with the Middle East, and which could be easily rejected by anyone with scant knowledge in this subject.

These erroneous assumptions are:

A) Nuclear weapons require very special means of delivery. Actually, the early A-bombs were very heavy and bulky, and only the heaviest bombers of that time. Hence the term "nuclear bomber" etc. This is no longer the case. In the US arsenal one can find nuclear shells for 50 lb. weight, weighing about 100 lb., as well as lighter devices. This kind of weight can be carried by the smallest ground vehicle or even carried manually.

B) Nuclear weapons are beyond the technological/financial capabilities of most of the countries.

Actually, some 30 countries are believed to have this capability. This number is probably higher than the number of conventional-capable countries firing good machine-guns or artillery.

C) No missile of range comparable to that of the Pershing are in the Middle East.

Actually, some Soviet missiles having about 250 mile range have been supplied to Syria and deployed in Egypt since 1973. The American Pershing missile is the only non-Soviet missile of comparable range, all others having much shorter or far longer ranges. Their supply will, therefore, restore balance by removing a destabilizing factor the availability of such weapons to one side only (the Soviet-supplied ones).

D) Israel asked for the nuclear version of the Pershing.

According to Time (Sept. 29) Israel asked for another version - to be developed - intended, primarily for conventional warheads. I do not know the difference between the two versions, which can't be very significant. Many short and very short range missiles have both kinds of warheads, including the Soviet ones. There is, however, a difference between a vehicle made to carry either warhead and one designed specifically for one kind only, making modifications difficult.

I hope that other future scholars, studying in leading universities, will be more careful about their assumptions and conclusions.

Ardon Gador
Sept. 7, 1975

Opinion

Letter to The Tech

Missiles and Israel

To the Editor:

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I hope that other future scholars, studying in leading universities, will be more careful about their assumptions and conclusions.

Ardon Gador
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Defining the black perspective

Much of the lack of undue standing can be summed up by the question: Why do black have non-economic/ideological differences from the average white students? There may come a time when black students will demand that schools average. couple of runs and a single inside the schoolhouse in each year. And there is that time when the average student comes to the school with a family, and is not a part of the community try to ignore, play certain elements of the MIT community try to ignore, play down, and wish away their existence.

Jambal and welcome to The Black Side - the column dedicated to enumerating some of the concerns, aspirations, and struggles of today's black student. Although The Black Side will focus on MIT, some extra-campus topics must be discussed. Concerned black students (and white ones, too) do not live in a vacuum. All of us are at MIT to learn not only about science and technology, but also about living, and mankind. To the black, some of the drifts of others, Black Americans form a viable part of our social order. Now before you write this column off as just another Black shouting the horn, let me say who I am. My name, as the

ty-lane states, is Phil Hampson. I am a fourth-year student in Chemical Engineering. I was co-chairman of the Black Students' Union in 1974, and currently am chairman of its Political Action Committee. Recently I am vice-chairman of the Undergraduate Finance Board and a member of the Equal Opportunity Committee. Last year I served on the Office of Minority Education Search Committee, was elected to Who's Who Among Students in American Colleges and Universities, and co-founded the MIT chapter of Kappa Alpha Psi Fraternity, a national predominantly Black fraternity.

The above data is not given in order to be pompous or to show that I am a Black person, not a part of the MIT community. The purpose of this column, "the black perspective," is comparable to that of other perspectives. The Black Side will not be a mouthpiece for any particular organization or group at MIT. All comments made in this column are my own. If all black folks agree with my column, fine; if they all don't, that's also fine. I'm not my brother's keeper, and he is not mine. The Tech welcomes Letters to the Editor. Typewritten letters are preferred. Letters must be signed; names will be withheld upon request. Send letters to The Tech, V2O-483.

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Don't worry, Coradon — My secret service says they've all been interviewed.

The Black Side

By Phil G. Hampson, II

Black - what does it mean?

Although most members of the MIT community see it as a color (or the absence of color), the 300 MIT students at it a state of being. Yes, there are that many black students under the name, even though is not that the 300 black students are "black" of the world's 150-plus countries.

(reads) Pekarsky's column pointed out that Israel is already believed to have nuclear capabilities, and that the danger of introducing Pershing missiles is that the Arab nations will be provoked into developing nuclear weapons in response. He did not say not, apparently, assume that "Nuclear weapons are beyond the technological/financial capability of most of the countries:" the capability to develop weapons is what he feared - not that the 300 nation's guidelines are "most" of the world's 150-plus countries.

The Tech welcomes Letters to the Editor. Typewritten letters are preferred. Letters must be signed; names will be withheld upon request. Send letters to The Tech, V20-483.
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Today, even so-called "non-technical" courses (psych, soc, bus ad, to name 3) require a variety of technical calculations—complicated calculations that become a whole lot easier when you have a powerful pocket calculator.

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Police Blotter

(The Police Blotter is a report written by the Campus Patrol on crimes, incidents and actions at the MIT campus each week.)

The Patrol was notified by the Campus Headquarters of the arrest of a female at the Harvard Trust Company Bank office in Kendall Square. She was apprehended when she attempted to cash one of two personal checks that she removed from a checkbook left in a raincoat pocket at the Faculty Club Coat room. The subject was also identified by a police officer of the same person who cashed a previously stolen check.

A jacket, hat, bicycle and personal checkbook disappeared when left unattended in Building 6 for about five minutes. The hat and checkbook were later found behind the pool.

An unattended wallet, containing a considerable amount of cash and many credit cards was stolen last Thursday from a laboratory in the Main Complex area. An alert by students from all over the U.S. and foreign countries. The wallet contained a considerable amount of cash and many credit cards. The wallet was recovered and returned to the owner.

A portable computer terminal, valued at well in excess of $5,000, was stolen last Friday from an area in an office area. A lone student was assaulted by two people who attempted to rob him near the Sailing Pavilion. The sudden appearance of two friends saved the student from serious harm. This incident only serves to demonstrate once again the very real danger faced by anyone walking alone at night, especially in dark or lightly traveled areas.

Patrol Officers arrested a subject Tuesday who had been wanted on Default Warrant for failing to appear at the Third District Court on Larceny charges filed against him when he was arrested by MIT Officers in the same area carrying a typewriter taken from one of the Main Complex offices. He pleaded guilty in Court the next day and has been placed on Probation for six months by order of the presiding judge.

A student left her handbag on a window ledge in the Student Center while she was taking part in a music rehearsal. Upon her retrieval of the bag at the end of the practice she found that someone had stolen her wallet.

A young lad of 14 years was found by Officers going wildly at the bicylce parked in front of the Student Center, a wrench in one hand and wire cutters in the other. He was accompanied to the edge of the Campus by the attending Officers who seem to have persuaded him not to return under similar circumstances.

A disturbing amount of office machinery -- including IBM Selectric typewriters have been stolen of late from the buildings at the Sloan School area. None of the stolen equipment has been secured in an office area. None of the stolen equipment had been secured or bolted down to immovable objects. "Bobbing" facilities are available from the Physical Plant Department. People with valuable office equipment light enough to carry are urged to take advantage of this availability by contacting that Department and making arrangements to have such machinery as electric typewriters bolted securely down.

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[Advertisement for Superex stereo systems]
The Nominations Committee for the Finance Committee has found itself faced with a hard-to-handle problem: no one seems to want to join student-faculty committees to which the Nominations Committee is supposed to name members.

The number of students who come to NomCom's hearings and ask to be appointed to student-faculty committees is declining, according to committee members. And most of those who appear are concentrating on just two or three student-faculty groups: the journals of these fields for background information.

Scientists with excellent native knowledge, no faculty or understanding, no students do as much or more than faculty.

A new problem is proposed by NomCom chairman Doug Nutter. "I agree, people just aren't interested anymore. The Nominations Committee was charged with naming students to faculty committees and presidential committees in 1975... "the height of the war, when everyone was interested and willing to turn out," Nutter put it. But political interest and willingness to work on issues at the Institute has faded in the seven years—almost two undergraduate generations—since then. And interested in being on a faculty committee has faded with it.

"There's a real problem communicating to students the fact that they can be effective, even on some of the smaller and less-well-known committees," Nutter said. "From the faculty community I've been, I know that students are listened to and paid attention to. They can be effective."

Chairman of the faculty Prof. John Ross agreed. "In my experience, which is mostly confined to the CEP (Committee on Educational Policy), there's no distinction between a student representation and faculty member," he said. "When it comes to discussions, joining subcommittees, taking work home to do anything, but especially discussion—students do as much or more than faculty."

Ross said that to the best of his knowledge, no political or presidential committees are available to conduct business or events badly hurt by lack of student representation on them. But, he pointed out, his experience was mainly with "the big, important committees"—CEP, the Committee on Academic Performance, the Committee on Curriculum, and so forth. And those are the groups, Nutter and Salley agreed, which have no trouble getting students.

"CAP, CEP, and CIAC (Corporation Joint Advisory Committee) are always popular," Salley said. "We get all kinds of people, most of whom are just looking for something to join or to put on their resumes, for those committees."

And Nutter added, "We'll get to 10 to 12 people every year for one slot on this CEP—but it's been years since we've had anyone on the Committee. Some of these less-well-known committees—you can't give them away."

NOTES

* The CAP and CIAC wish to remind students of the Yellowbook deadline: October 5, 10:30 am—Adding subjects by graduates and under-grads.
* Designating Pan/Fall elections by a junior or senior.
* And most of those undergraduates are concentrating on just two or three student-faculty groups: the journals of these fields for background information.

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The class, co-sponsored by New England Dinosaur Company, will be held at 1:15 pm, Tuesday, Oct 14, in Room W20-400.

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Hi-Fi components for sale: 25.00% off on most brands. All Hi-Fi centerpieces with cards. Full warranty on all repairs. 30 day exchange on defective units. Call box, 253-642-62 (keep trying).

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To the extent that the CAP has any knowledge, no faculty or understanding, no students do as much or more than faculty.
By Chris Donnelly (Chris Donnelly '77 is a member of the men's varsity sailing team.)

The men's varsity sailing team was quite successful last weekend, winning one trophy regatta and placing second in another. The team also had the highest overall regatta finishing second in the President's Trophy on Sunday.

On Saturday the varsity competed in the Franklin F. Line Trophy at Tufts. MIT sailed against ten schools including Tufts, ranked first in the country.

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In addition to the active intramural and varsity soccer programs, MIT also fields a team in the Community League, a local amateur soccer league. Several members of the Institute community contribute to the squad, shown here (striped jerseys) in action against Liberty Sunday afternoon at Briggs Field.

Worcester Poly tops soccer 4-3 in warning-filled opening game

By Gregg Fenton (Gregg Fenton '77 is the MIT varsity soccer manager.)

The MIT varsity soccer team lost its first game Tuesday at home against WPI, 4-3. The seesaw contest was paced with warnings and ejections although both teams apparently intended to play the game safely.

WPI scored with less than two minutes gone as senior Alan King received a crossing pass and was free to fire a shot into the upper right corner. MIT tied the score at the 15-minute mark when Lempere Fatas '77 hustled after a ball misplayed by the Worcester defense. He headed in the shot from about five yards out.

The Engineers went one up as Skip Youdale '76 took an indirect kick from Greg Hunter '76 and pounded it in from close on a picture play. The first half ended as King was uncovered but outside the penalty box, and he sent a screened shot into the far corner to tie it 2-2.

In the early minutes of the second half, MIT dominated the play. WPI, though, despite ejections of its coach and one forward for arguing with the officials, broke through to take the lead.

Twice in two minutes King fired shots from about fifteen yards, scoring on the first. The fourth goal came after goalie Charlie Saccmar '76 blocked one of King's attempts only to see another Worcester striker pause on the free ball, MIT got one goal back on the same indirect kick played as in the first half, but that was all.

Good movement by forwards Rich Ohino '77, Bob Currier '77, Steve Rice '76, and Fatas set up many shots that were not on net. Free kicks also resulted in many close calls for both goalies. Several WPI moves improved the score, but this was offset by more stunning on MIT's part for loose balls. The big problem was uncovered strikers taking too many good shots. Defensively, the question of Dave Pett '77 and injury to Kaler Krups '77, both early in the game, was damaging. The steady play of Sommers and Hunter was not enough to compensate for the loss of Pett and Krups.

The team will try to even its record this Saturday when it takes on Trinity College at 7pm on Briggs Oval.

Water polo tourney today

By Glen Brownstein

The fifth annual MIT water polo tournament will be held at the Amau Pool today and tomorrow. This year's teams include Brown, which finished fifth in 1972, Southern Connecticut a third-place finisher in 1972, new entries Williams, URI, and UMAB, and host MIT.

The Engineers have been successful in their tournament the last four years, winning it in 1971, and placing second in 1972 and 1974. Two years ago, MIT tied for fifth.

Other past tournament winners have been Harvard in 1972 and 1973, and Boston College last year.

Today's schedule pits Southern Connecticut vs. UMAB at 3pm, MIT vs. URI at 4pm, and Williams against Brown at 7pm.

Tomorrow, starting at 11am, there will be round-robin contests conducted between today's winners and losers, with the round-robin winners playing a championship game late tomorrow afternoon. Admission to the tournament is free.

Sailing wins Jack Wood regatta

By Johan Nye '77 (141) and Mike Raphail '79 (5)

Ralph Fass '79 (50) took on as a wpi player winds up to kick the ball