Frats hope fuel will last

By John Hanelz and Mike McNamara

MIT fraternity houses in Boston and Cambridge are meeting the energy crisis with attempts to decrease consumption of both oil and electricity. Although most houses say that they are still receiving all the energy supplies that they need, some are adopting energy-saving measures.

"Since the energy crisis," one house manager reported, "we've been making a conscious effort to use less energy.\" He said that they have been switching from 40- to 60-watt bulbs and have been turning off lights at night when the house is not occupied.

Other houses have been taking similar action. One house manager said, "We've been trying to save energy, but we're not sure how much of it is due to the energy crisis.\" He added, "We've been using less electricity, but we're not sure if it's because of the crisis or just because we wanted to save money.\"
By Ken Davis

Engineering schools "should strive to be unique, rather than follow the lead of a few prestige schools." This is one of the conclusions drawn in a report released by the Center for Policy Alternatives, entitled "System Response to a Changing World: Higher Education." The monthly-long study was made by a 15-man committee including five MIT, three from industry, and three from the engineering faculty. Herbert Holomonn, Director of the CPA, was the committee's chairman.

The 104-page report is a broad survey of the current state of engineering education in the United States, not especially with reference to MIT. It recommends that the engineering curricula at thirteen colleges, including MIT and the Polytechnic Institute, Cornell, Case Western Reserve, several large state universities, and others, be reviewed. The report estimates in nine general recommendations to improve engineering education:

1. "Education experience in design should be provided as early as possible for the student and should be available as an integrated part of the engineering curriculum. In the last ten years, engineering curricula have become increasingly theoretical and analytical, while the actual need for design ability has not decreased. In order to reverse this trend, there must be an attempt to attract faculty members who are interested in design, and if permanent faculty are not available, to make arrangements with industry and government to allow designers to serve part-time in an educational capacity. Design evaluation of projects, as in architecture, by experts, must be made.

2. "Clinical experience should be provided as a significant and integral part of engineering education." The clinical experience should be available in that it gives the student a good idea about the actual practice of engineering. Cooperation must be provided with industry to allow students to work on industrial products for pay that would also be educationally valuable. The clinical experience should deal with problems where there is a need to deal with non-technical sides of the issue.

3. "The school of engineering must have accountability for the quality of the education of engineering students in the universe." This, including both parts of the student program traditionally offered outside the departments of engineering. Education must have two sides, the vocational and the educational. If the total question is to be left to real value, engineers must take an interest in both sides.

4. "Faculty and administrative personnel must share responsibility at the school level for the total education of the student." This may be more practical for the faculty, including engineers, to achieve than the administrative personnel.

5. "More schools ought to offer "Bachelor of Engineering" degree programs for students planning graduate study in the professions, including engineering, law, and medicine." MIT is currently developing such a curriculum, under Frank Perkins, professor of civil engineering, and W. H. Byrd, assistant special assistant to Dean Alfred Keil. Perkins was a member of the committee, and the committee program would seek to teach the commonality of engineers, offer projects and clinical experiences, and become a recognized step to graduate programs in the professions.

6. "Both entry and exit ought to be facilitated in an educational program." This is important, for several reasons. An increasing number of students are going to junior colleges, transferring to four-year institutions. Many students are also transferring from one college to another, or dropping out and returning some time later. Current rigid sequences or curriculum changes make these steps very difficult.

7. "The school and the departments must insure increased student interaction with the academic community and more effective communicating." The fact that there are many more options available to today's engineering student makes it critical that he understand the range of opportunity. Schools must prepare for a possible period of no growth. Unlike the 1950's and '60's, funds for expansion into new fields are severely limited. The future design also makes it exceedingly difficult for engineering schools to grow or change curriculum. Schools must have more effective use of their resources. They may be more likely to require a group of departments to include interdisciplinary centers and eliminating redundancy. Schools must be aware of the incentives they offer for academic innovation. Schools should also strive to be unique rather than follow the lead of a few prestige schools.

8. "The performance of students, programs and institutions must be evaluated as rigorously as possible." Evaluations are necessary if students and programs are to adapt to the changing environment. Students should be evaluated before, during and after a formal engineering education. This would make transfers easier, and determine how effective an educational program is.

The study found that of those who considered themselves engineers, the percentage with their highest degree in engineering rather than another area decreased with level of the degree. It also found that a higher percentage of undergraduates leaving engineering than other disciplines. The engineering major tends to be narrowly trained, active, with little supervision, and approaches engineering as a job rather than a calling. Engineers demand a higher level of authoritarian behavior than those in other scientific disciplines. They usually value task more than task initiation. Engineering students tend to come from middle and lower income groups. They generally have little interest in liberal arts and social sciences.

It was also found that engineers as a rule were less satisfied with their success than other professions. Many wind up in management positions. It was found that there is a correlation between the level of an engineer's technical responsibility and how well he keeps up to date on new advances. This is not true, however, for his level of supervisory responsibility.

Apartment insurance, in a low-cost package.

Our single, low-cost coverage protects all your personal property, including credit cards. And not just in your apartment, but worldwide.

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In an article published Tues-
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Police Blotter

Police Blotter is a compilation prepared by Campus Patrol to report crimes occurring in the MIT community.

11/30/73 - 4:00pm
Unsuccessful attempt to steal a motor vehicle from the Albany Garage. Vent window broken.

11/30/73 - 5:30pm
Larceny of a Wallet from an unlocked room in Bemis Dorm. Wallet contained $21.50 plus credit cards and identification papers. Was unable to locate owner.

12/3/73 - 11:30am
Report of indecent exposure - 19-20 years old, male, 5'6", slim build, mustache, exposed himself to a female employee on Carlton Street, Cambridge and then hurriedly left area. No conversation took place.

12/3/73 - 3:45pm
Larceny of a purse from Building 1-40 containing a check and credit cards, no money from an open office.

12/3/73 - 8:45pm
Larceny of a wallet from Atkinson Dormitory. $5.00 cash. Door closed but not locked. Occupant was attending class when larceny occurred.

12/3/73 - 9:10am
Larceny of three (311) typewriters (older type) and a small personal radio from 28 Carlton Street, Cambridge (MIT Press). Newer machines in area not touched. Access thought to have been gained via an unlocked garage door.

12/5/73 - 10:00am
Report of four (4) larcenies between 1:00am and 6:30am on December 7th, 1973. Bicycle was chained and locked.

12/8/73 - 4:10pm

12/8/73 - 1:40pm
Larceny of a bicycle from the Student Center bike rack. Theft occurred sometime between 1:00am and 12 Noon on December 7th, 1973. Bicycle was chained and locked.

12/8/73 - 6:00am

DINING SERVICE HOURS

DURING THE HOLIDAYS SEASON

| Dec. 22 | 20 Chimneys | 8am to 7pm |
| Dec. 23 | 20 Chimneys | 8am to 7pm |
| Dec. 24 | Closed     |           |
| Dec. 25 | Closed     |           |
| Dec. 26, 27, 28 | Lobdell  | Breakfast: 7:30am to 10am |
|           |           | Lunch: 11am to 2pm |
|           |           | Dinner: 5pm to 7pm |
| Dec. 29  | 20 Chimneys | 8am to 7pm |
| Dec. 30  | 20 Chimneys | 8am to 7pm |
| Dec. 31  | 20 Chimneys | 8am to 7pm |
| Jan. 1   | Closed     |           |
| Jan. 2, 3, 4 | Lobdell | Breakfast: 7:30am to 10am |
|           |           | Lunch: 11am to 2pm |
|           |           | Dinner: 5pm to 7pm |
| Jan. 5   | 20 Chimneys | 8am to 7pm |
| Jan. 6   | 20 Chimneys | 8am to 7pm |
| Jan. 7   |             | Resume regular schedule in all food service operations. |

Walker Memorial food service will be closed from the end of service Dec. 21 to breakfast 7:30am Jan. 7, 1974.

Fitchett Lounge (Walker) will be open Noon to Midnight Sunday Jan. 6, 1974.

The Coop

MIT Student Center

The Hewlett-Packard

HP-45 ADVANCED SCIENTIFIC ELECTRONIC CALCULATOR

Beyond the basic four functions, the HP-45 is programmable to perform trigonometric and logarithmic functions. Display up to 10 significant digits plus 2-digit exponent and appropriate signs. With free field data entry with exponent, and one year factory warranty against defects in materials and workmanship.

$395.

Visit the MIT Students Center for these other fine electronic calculators.

| HP-35 | 179.95 |
| HP-39 | 295.00 |
| HP-50 | 395.00 |
| Keystone No. 395 | 129.95 |
| Texas Instrument SR-20 | 179.95 |
| Texas Instrument TI-3500 | 79.95 |
| Texas Instrument TI-4000 | 139.95 |
| Bowman MX-40 | 79.95 |
| Bowman MX-50 | 99.95 |
| Bowman MX-70 | 129.95 |
| Bowman MX-80 | 119.95 |
The United States has survived slightly more than one year of Richard Nixon's second term as president, during which we have witnessed shocking tales of deception and criminal behavior in the White House, the felony conviction of a vice president and his subsequent resignation and a mounting pressure on the President to resign and on the Congress to impeach him.

Meanwhile, government in Washington has been paralytic. Energy "czar" Kissinger has been an austere savior and an umbrella summer. The Arab-Israeli tangle signs that the "count ry is finally in the suburbs to cogitating on more trans-

The fact that the government needs a clean start. The Tech long ago called for the impeachment of President Nixon, and since then the President's credibility has dropped, with a growing proportion of the American public favoring a new face in the Oval Office. All speculation regarding the possible new face was set aside last week, with the cancellation of that possibility.

To Carl Bernstein, John Sirica, Frank Wills, and Bob Woodward - the nation's Christmas gifts to public figures? So why you are reading yet another list of New Year's resolutions can wait - Ever won-

Dist ributi on Subject. The above statements with some confi-

To my readers - Merry Christmas and a Happy New Year.

To Gerald Ford - the football helmet

To George McGovern - the strength and the support of the Senate, every Senator behind "I told you so."

To Elliot Richardson, a straight arrow

To Archibald Cox - an "A" for effort.

To Leon Jaworski - the break

To John Sirica - better luck next time.

To John Ehrlichman - a magician's hat

To Bob Haldeman - a country

To John Dean - helping to crumple the Franz Kafka, and a cracker barrel wise crack-

To Rosemary Woods - Ten free visits to the nearest health spa to help soothe the highest practicing what he calls the "Hamburger and Sandwich" policy.

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To Rosemary Woods - Ten free visits to the nearest health spa to help soothe the highest practicing what he calls the "Hamburger and Sandwich" policy.
We wish you a Merry Christmas, we wish you a Merry Christmas, we wish you a Merry Christmas... and a Happy New Year.

STUDENT JOBS

WORK STUDY

Appropriate languages, coding. - Earn $357-500 annually. Full/Part - 9AM-12AM. Research an crystal growth. A Biochemist, G.P. Knowledge of chemistry. Thermo or use of mechanical test equipment. 64 hrs./wk. $3.50/hr. - IAP

With study opening at Museum of Science. Malay, ornithology, education, computer's using 144. 15 hrs./wk. - term. Study with good knowledge of 24 1A System. Will be available to work week over IAP. Keypunching - $3.50/hr. for 50 hrs./wk. - IAP. General job help - off campus. Location - Transport arranged - up to 40 hrs./wk. $3.50/hr. - IAP.

NON WORK STUDY


CONTACT PERSONEL

S-1 20 X-4973

WINTER COLLEGE MARKET

We offer a variety of options for the Humanities requirement to be changed. The options outlined in the memo were those, according to Associate Dean of the School Donald Blackmer, that "reached several areas of consensus on some of the basic questions that have been raised - the questions of concentration, distribution, and the advisability of having some sort of core courses." The options were:

I. Certain subjects will be designated by stars or other markings in the catalog, because their content: a) lays great emphasis on the study of values; b) has an emphasis on writing and discussion; and c) concerns itself with general problems, as opposed to narrow, disciplinary considerations; and d) draw their subject matter from the past, and e) place strong emphasis on writing and discussion, and meet in small sections. These starred subjects will carry twelve units of credit, and a student would be required to select one subject from each of three areas, while concentration requirements involve taking three subjects within an area. Various requirements would be allowed to overlap; for example, under Option I a subject could be used to satisfy the "starred course" requirement and either the distribution or the concentration requirement.

II. The starred subjects, under this option, would be chosen

as Leaders Needed

from the area of Humanities, and would be administered wholly by the Department of Humanities.

III. This option calls for simply a three-subject distribution requirement and a three-subject concentration in one of the four fields that will be set up by the school. There would be no list of starred courses.

IV. Departments would be asked to limit their offerings for the distributions and concentrations to "mainstream" courses, but the requirement would otherwise be the same as Option III.

V. There would only be an eight-subject requirement; the subjects would have no restrictions put upon them.

All five of the options in whole divided the subjects under the requirement into four areas: the Humanities, the Arts, Foreign Languages, and Social Sciences. Distribution requirements involve picking one subject from each of three areas, while concentration requirements involve taking three subjects within an area. Various requirements would be allowed to overlap; for example, under Option I a subject could be used to satisfy the "starred course" requirement and either the distribution or the concentration requirement.

The results of the study, which Blackmer said will be brought to the Committee on Educational Policy this week for study, showed a first-preference choice for Options IV (33 votes), 1 and V (22 votes each).

"The results were somewhat clouded by the fact that we did not state a clear voting method," Blackmer said, "and so we got some different ways of rating options, with less of comments in the margins, and so forth."

"I hope that by use of this poll, we can narrow the options down to two or three clear-cut choices," Blackmer said, "maybe in this way, we can get to the bottom of the educational policy."
Midast peace chances slim

(Continued from page 1)
should they, now of all times, be willing to settle for less than everything?

He also stated that resolution of the Arab-Israeli crisis would not really mean peace in the Middle East. He cataloged the Middle East crisis as "not merely a war between Israel and the Arabs but a conscious decision on the part of the Soviet Union to seek its own gains by confrontation with the West."

"There never has been a desire on the part of the Soviet Union to seek its own gains by confrontation with the West."

The reason for this, according to views on the energy crisis and detente with the Soviets, of the Soviet Union to seek its own gains by confrontation with the West."

"They hope to do this to justify their tremendous outlay in Mideast drilling," Frankel said. "Forty years ago they told us we had only about 40 billion barrels and yet without any major expansions or discoveries (Alaska and offshore oil are not included in these figures) we still have more than 40 billion barrels." He added, if one looks on the back of the geologist reports, according to Frankel, over 60 billion barrels of recoverable oil would be available if the American public were willing to pay the added price.

"Alas, none of this includes Alaska. With the initial estimates of 10 billion barrels on the North Slope, it wouldn't be economically feasible for the oil companies to sink more than 54 billion in outlays. Since then, however, they've spent $4.8 billion on basic costs and are now prepared to spend another $4.5 billion for the Alaskan pipeline and $1.5 billion for tankers. The only reason that can do it is because conservative estimates of the oil now run from 40 to 60 billion barrels. I think there's most probably something on the order of 600 or 700 billion barrels . . . The US is not about to run out of oil."

Other sources such as tar sands and shale were cited by Frankel as capable of producing up to 1 trillion barrels from US fields alone. Also, as the price of oil rises, he sees the possibility of using newly capped due to the cost of production, Frankel then pictured the effects of the Arab boycott on the US as of short-term character. "The ones who are really hurting are the developing countries like Bangladesh. In fact I believe the real force to overthrow the Arab Blackmail will come from the underdeveloped countries, not from the industrially advanced nations at all."
the tech arts section

Photo by Dave Tenenbaum

Peter Gabriel of Genesis (see page 8)
I have a working agreement with state-over there in recent years (Dick Stuart, reserve clause doesn't take into ac-

That record may go down the tube, as foreign (read: American) players. League have been mentioned) about

Yaz, Petrocelli. and Cepeda certainly hurt, and his place has yet to be filled. All I can say is, how will Carl look on a

And speaking of Japan, they may be lead by the cosmically aware Capt. his sinister dream, even though they

When it plans to take over the universe (what else?). His name is Thanos, son of the

He speaks in green balloons, the Vision seems to exceed his powers, his liveliness may

Both Eras Evoked in Distinctly Surreal Fiction. When he gets

Selling, however, the stories are

Hackett's guitar once again is over-

And while Genesis goes about resolving their onstage condition, we can all enjoy the aforementioned Selling England By

The group was brought to Boston as part of a successful promotional tour lead by the new parent label, Atlantic.

The scene was Cohen Auditorium at Tufts, a high school auditorium if ever I saw one – less than a thousand seats -

The four of them sit or stand quite at

But while Genesis is involved in making sure their condition is at its best, they also play their music into the minds of their fans.

And speaking of Japan, they may be lead by the cosmically aware Capt. his sinister dream, even though they

Hackett's guitar once again is overshadowed by his immense skill in playing any instrument.

It opened with a fascinating, over-

The group was brought to Boston as part of a successful promotional tour lead by the new parent label, Atlantic.

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Hackett's guitar once again is oversh
Alice’s Muscle goes limp
by Harlo Wilcox

Muscle of Love - Alice Cooper (Wea/Reprise)

This is the Alice Cooper Group’s 3rd album to date, and, except for their first, Pretty Far You, is their weakest. Of course, few groups last this long intact, and of those that do, most are sounding pretty run down. It’s hard to see how Alice and his boys could be running out of inspirational material, for “We’re the ultimate American band, merely the end product of an effluent society,” to quote Mr. Cooper. The boys watch a lot of television, but, the other week “Alice Cooper” was the answer to one of the questions on Jeopardy, and host Art Fleming remarked that Alice was a pop star of the television age. My! How times have changed. But the band spent over $32,000 for beer alone. The American effect on the young, up-and-coming, is used, not abused, and in the end, it seems to be the march of time that has soured the wine.

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Alas! The band are up tempo, but Ray is out, gets shot, dies (“Crazy Little Child”). Not all that interesting, and hardly presented with the power and style that Ray and Alice were capable of. If it is a slowournous throwaway, it is a slowournous throwaway, and “Crazy Little Child” is a rinky tinky childish number, Alice sounding like a cross between Leon Russell and Danny Kaye, and very bored.

Alice has always exhibited brilliant command over the commercial potential of unattractive subject matter while sticking to the basics musically. Even the theatrical showmanship of his last, Billion Dollar Babies, was calculated, never either getting out of hand or letting up. In contrast, Muscle of Love is confused and aimless. The bulk of the package (on the rockin’ roller theme) is a series of sound, without meaning or depth, and the wittily-written songs are a hilarious collection of pop trivia. By now, it’s pretty clear that Ray Davies isn’t the rockin’ rollin’ type that he used to be, and he needn’t be at that. The Kinks number eight, their ranks swelled by a horn section, and Ray makes everything sound as though it were a hack skit at a track meet. The rock band moves in on the track team and school paper, and all the directors will be outraged by this.

And much of Muscle of Love is nonsensical. Side one has some sort of plot line, “Ohio hick goes to New York City to hit it big,” but it’s a hack skit at a track meet, and the rock band moves in on the track team and school paper. The first two tunes are solid rockers, and “I’m so Happy Now” has a solid rock theme. It’s built like a movie theme (with a horn section). The rock band moves in on the track team and school paper, and all the directors will be outraged by this.

Side two has a couple palpable tunes, “Muscle of Love” is a knockoff AM single, in the tradition of “Under My Wheels,” “School’s Out,” and “Electric.” “Meanie (I’m a Pseudo-Fetish) is a pseudo-fetish song, I don’t care to guess what it is about, but it seems to be the march of time that has soured the wine.

The Man With the Golden Gun is similar in temeprance to McCartney’s “Live and Let Die.” It seems to me I recall reading that Ian Fleming’s James Bond novel was inspired by a move into a row house, and this just could be the theme. It’s built like a movie theme should be: listen once, throw away. “Woman Machine” has a clever bit with electric and machine noises, but it is at best prettily l l y.

Muscle of Love will be, I’m afraid, enjoyed only by hard core, terminal Alice Cooper fans, and is hardly suited to the general consumption. Tracing some of the influences through Alice’s records, one can see the rockin’ rollin’ theme. In 1971 the band spent over $32,000 for beer alone. The American effect on the young, up-and-coming, is used, not abused, and in the end, it seems to be the march of time that has soured the wine.

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Music of the Time: Stephen Occades

In his capacity as Assistant Conductor, Michael Tilson Thomas was called upon to conduct a great number of Boston Symphony concerts during William Steinberg's extended illness several years ago, and he was hailed at the time as a wonderkind, the new Leonard Bernstein. The Moos has worn off the relationship between Mr. Thomas and the orchestra since then, and there is an unpleasant degree of tension in concerts and especially in rehearsals. Though he is undeniably a brilliant musician, Thomas seems to lack the gift for working with the players that Ozawa, for example, exemplifies so extraordinarily well.

The Spectrum Concerts, which were established to attract college age audience, have been incorporated into the regular Friday/Saturday concert series, and the explanation and dissection by Thomas works rather poorly with this new symphonic garb courtesy of Monteverdi's "The Dream of Orpheus," which was played by a small vocal ensemble, without orchestral support, to perform in, since its acoustical anomalies make it difficult for individual singers to hear the sound of the group. The opening Mass for Four Voices of Monteverdi suffered from serious pitch problems, undoubtedly exacerbated by the Kresge acoustics. The two madrigals which followed it in the first half of the program were much better received. The choral copying was not up to the standard of its membership, and the sound of the College Chorus, distinctly brighter and more thrilling. The winter program has changed a great deal. Mozart's unfinished C Minor Mass stands at the same level as Bach's B Minor Mass and Beethoven's Missa Solemnis, and the Choral Society's performance was extremely committed and convincing. The virtuosity and versatility required of the soprano solist (the part was originally planned for Mozart's new hire, Constantine Kitsos, whose is?). Judith Nicosia sang well, if not on equal footing with some singers? are incredible, and Mary Lee Cirrella. was not strong enough for the demands of the "Laudamus Te" movement (but is a very good second soprano rather than an alto. The chorus was exceptionally unified in the stirring dynamic shifts in the "Qui Toli..."

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Larry Bell '74, MIT's high scoring all-around, jumps into his drop peach mount last Saturday.

Aerobic beat Lowell Tech and set scoring high: 122.86

Photos by
Fred H. Hutchinson

Curt Thiem '78 in his "L" during the parallel bar competition against Lowell Tech.

Jarvis Middleton '74 scored 8.25 on the rings against Lowell T.

Alan Razak '78 and his front-off dismount from the "p" beam.