Physics department raises building hopes

By Steven Solnick

A statement by Physics Department Chairman Professor Herman Feshbach that the department was committed to the construction of a new building for physics" may have raised some premature hopes among members of the Physics Department.

Feshbach's announcement was contained in an October 24 newsletter to Faculty and staff and reprinted in a newsletter for the entire community dated last Friday.

Proven Francis Low said yesterday that the Institute was committed only to trying to raise funds for the new facility.

According to Feshbach's statement, the MIT Planning Office prepared a proposal to consolidate the facilities of the Physics Department, currently spread across the campus. The "essential ingredient" of this proposal would be a new Physics Building on the present site of Building 12. The new building would house "a substantial fraction of the department, including the Department Headquarters." Feshbach stated that the strategy for raising funds for the building would be established by the Resource Development Office "in the course of the next few months."

Low acknowledged that the wording of Feshbach's statement may have been misleading. According to Low, the matter was considered by the Committee on Resources for the Institute (CRI), the Institute's chief fundraising policy body.

"The CRI agreed the Physics Building was a high priority and we will go out and try to raise funds for it. We are going to try for it, that is what we are committed to," said Low. He explained a fundraising drive would have been "a real problem."'

According to William Dickson, Director of Physical Plant, MIT had no plans in case the MBTA shut down this morning, MIT had no plans in case the MBTA would have on efforts to pay off the debt on Memorial Drive - now about $9 million - Low replied, "It is hoped that this different funds would come from roughly independent sources. Of course there is a certain conservation law of the time and effort of people raising the funds, they won't be able to build anything, will they?" he said.

When asked what impact a new construction fundraising drive would have on efforts to pay off the debt on Memorial Drive - now about $9 million - Low replied, "It is hoped that this different funds would come from roughly independent sources. Of course there is a certain conservation law of the time and effort of people raising the funds, they won't be able to build anything, will they?" he said.

Low commented that a new building for Physics would also open up space elsewhere which other departments would be able to use.

CSR analyzing Voyager I data

Titan core smaller than Ganymede; five moons discovered

By Jack Link

As Voyager 1 continues to observe Saturn from the planet's far side, scientists at MIT's Center for Space Research (CSR) are beginning to analyze some of the data it has already beamed back.

CSR Director Professor Herbert Brainard, Jr. the Principal Investigator for the Plasma Science experiment (P-3), one of the nine experiments aboard Voyager I. The experiment was built at CSR's Space Instruments Lab.

"We have discovered that Titan acts like a big smokestack, blowing out a wake of low energy particles," said Fran Bagenal, a member of Bridge's team.

The atmosphere of Titan, Saturn's planet-size satellite, has proven to be one of the most intriguing objects of Voyager's study. Last night it was learned that Titan's core is smaller than Jupiter's satellite Ganymede. As of yesterday morning, Titan was considered the largest satellite in the Solar System. It is still is largest the thick of its equa- tions, nitrogen atmosphere is considered.

"Titan's surface may consist of water/ice with concentrated am- monia/water puddles," said CSR Planetary Science Professor John Lewis before the arrival of last night's data from Saturn. "If that proved to be the case, we definitive ly would have complex organic molecules raining down on Titan. That would require temperatures of above 179°F," said Lewis.

Last night's preliminary data is making that possibility less likely, according to Torrence Johnson, a member of the Voyager imaging team at the Jet Propulsion Lab in Pasadena (JPL). "It looks like the surface temperature may turn out to be below 90°F," at 87°F," he said.

"Then we would have the rather dismal picture of Titan covered with an ocean of liquid nitrogen," said Lewis. "The possibility of complex organic molecules would be low.

"One thing we have already learned from Voyager is that there is almost no chance terrestrial life could survive on Titan. Even if it were warm enough for ammonia puddles, the ammonia concentration would be 100 times stronger than necessary to kill even the most hardy of Earth organisms."

That wouldn't preclude the development of other forms of life, but "it would mean we wouldn't have to worry about the expense of sterilizing other probes to Titan," according to Lewis.

Voyager has also furnished data confirming the existence of five moons, Saturn's total is now 15. Two of the moons have been called "dark moons" and are suspected to be -probably coated with ice. The dark moons are assure why the two moons don't collide.

Today, Voyager is making a movie of Saturn's rotation from behind. "The bright and dark features in the rings have reversed themselves as in a photograph negative. The dark spots are now bright, as the thin braided F-ring," said JPL spokesman Allen Wood. "The spokes are definitely enhanced on Saturn's magnetic field."

Bridge's group is studying the interactions between Saturn's magnetic field and the solar wind. "It may be the basis of some of the Voyager observations," said Johnson.

"The F-ring is the most outstanding feature, Voyager has revealed so far," said Johnson.

Voyager II will arrive at Saturn next year, and is presently on a trajectory that will later take it on to Uranus and Neptune. "The final decision of where to send Voyager II will be made December 24, but right now it looks like it's going to be Uranus for sure," said Wood. Voyager II lost one of its radio receivers shortly after launch, and its backup has developed a problem.

Despite the recover problems, "both probes have functioned so well there is no reason to believe we won't be seeing some more pictures of Saturn in 1989," said Wood.

Wood noted that the Voyager team has not yet received funding for the Uranus program.

MIT unprepared for 'T' crisis

By Kenneth Shaw

Although there was a possibility that the MBTA had no plans in case the MBTA would shut down this morning, MIT had no plans in case an emergency situation occurred.

According to Paul Dickson, Director of Physical Plant, MIT had no plans in case the MBTA had no plans in case the MBTA shut down this morning. The MT Business Office was working on an emergency situation with the MBTA. Walter Milne, Special Assistant, said the possibility of the MBTA closing was the result of a $41 million dollar budget deficit. The present budget rate of money is $200 million. This morning, the additional funding was supplied yesterday afternoon after an emergency situation of the MBTA. Walter Milne, Special Assistant, said the possibility of the MBTA closing was the result of a $41 million dollar budget deficit. The present budget rate of money is $200 million. The MBTA was working on an emergency situation with the MBTA. Walter Milne, Special Assistant, said the possibility of the MBTA closing was the result of a $41 million dollar budget deficit. The present budget rate of money is $200 million. Walter Milne, Special Assistant, said the possibility of the MBTA closing was the result of a $41 million dollar budget deficit. The present budget rate of money is $200 million.
World

"Pakistan connection" crippled — Pakistan's production of opium poppies has collapsed,据称是从1900年代末期的500万桶下降到1980年代的100万桶，根据来自US和United Nations的报告。官方的巴基斯坦政府，虽然在几次调查中均否认，但据称有成千上万的成年和青少年在从事非法活动。以至于在1980年代中期，政府开始采取严厉措施，试图阻止这种情况的继续。

Nation

Brush fires rear thousands — Brush fires, encouraged by dry conditions and strong winds, have raged this summer over thousands of acres, with no signs of abating. The slash in poppy production has left tens of thousands of acres of land in Southern California, near Los Angeles. Four of the five fires were reported out-of-control as of Monday morning. Structural damage in the burned areas is estimated at $25 million. One fire approached the area of Pacific Palisades, President-elect Ronald Reagan's home, before "silent efforts" contained the fire.

Consulting group barred from Stanford — A national management consulting firm, the Boston Consulting Group, has been barred from using the Stanford Business School's on-campus facilities to recruit MBA students. The sanctions, described as "a serious penalty and highly unusual" by company officials, were imposed after the company went ahead with plans to interview first-year students, violating Stanford's recruiting guidelines. The school's new policy prohibits interviews with first-year students before February.

Weather

A developing winter storm will move up the coast today. Boston can expect heavy precipitation rates in the form of snow. Show that began overnight will continue today with winds out of the east this morning blowing north to west by tonight. There may be a period of changeover to rain during the day. If so, accumulations will be held to about 3 inches, but if the changeover does not occur, 4-6 inches is likely. Highs are expected in the low to middle 30's. Cold and clearing tonight with strong winds, lows in the upper 20's. Continued cold tomorrow with sunny skies but more scattered clouds. Highs in the 30's, lows in the 20's.

M IT Piano Lessons

By Sarah Ruggles

Will the faculty be converted into MIT's first minority faculty? This was one of the issues brought up at Reportback, a forum held Thursday evening for all undergraduates on Institute committees to report on their accomplishments and answer questions from the undergraduate student body.

The informal issue was brought up by Suzanne van Rosenberg '81 of the new Admissions Committee for Women's Interests. "Several national organizations approach Bob Holden (Associate Dean for Student Affairs) every year," she said. The committee is now trying to determine if there is sufficient interest among MIT women to warrant any action. MIT women will have first priority for the West Campus Infirmary building when it is vacated next year.

The committee is especially concerned with the plight of single-sex housing, since 40 out of 100 interested women were turned away from McCrane last September, and the number of women students at MIT is increasing.

Robert Willis '82 of the Committee on Educational Policy (CEP) spoke on the proposed changing of the 1981-82 academic calendar to accommodate the late Labor Day holiday and finals week next fall. The committee will submit a calendar in February for faculty approval.

Also on the agenda of the CEP is a discussion of unit changes and standardization between departments as well as in individual courses. The committee seeks student input.

Along the same lines, Al Drake, Professor of Electrical Engineering and Computer Science, spoke for the Committee on Curricula (COIC). The COIC is studying students' perceptions and fulfillment of Institute requirements. "There is a difference between the theory and practice of science and lab requirements," Drake commented.

The CEC is concerned over the addition of an excessive number of courses to MIT's catalog, which Drake said could make it "the death of all forests." He added, "Students tend to reorder their priorities every two years, more quickly than we expected." This could cause many Institute requirements to be needless, he said. Speaking to students, Drake emphasized, "Don't be reluctant to get in touch with committee members about petitions."

The need for Freshman Evaluations is being studied by the Committee on Student Affairs (CSA). The committee is also interested in the success of working freshmen into MIT residential and academic life during Residence/Orientation Week. How to slow things down? At MIT is a part of current CSA discussion.

Rabbi Shemtov has approached CSA over the plight of the Kosher Kitchen (in the basement of Walker Memorial) if this building is turned into a graduate student center or if the number of participants continues to increase. CSA is considering the possibility of Institute housing in Kendall Square, as well as a new two-year maximum stay in graduate dorms.

The Commencement Committee announced that it has sent a proposal to President Paul Gray that would consolidate the practice of having an outside speaker at commencement.

The Commencement Committee is also pursuing the problem of graduation facilities, such as rain commencement sites. A discussion of irrigation problems with MIT's old diplomas has led the committee to consider diaper material changes.
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Robert Nadeau - The Real Paper - June 28, 1980

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Voyager One and spectacular science

Last Wednesday, scores of MIT students huddled around MTV monitors to watch Voyager I encounter Saturn. Saturn made the front page of every major newspaper and was featured nightly on the evening newscasts for the better part of a week.

Public interest in science was rekindled by the Fifty of the one-second exposure of Saturn's ring system. The public probably regarded the discovery of extra Saturnian moons, spoken in the planet's rings, and an elaborate substructure within the rings with a certain detailed puzzlement. Although the science may have been esoteric, many people found it in the Voyager publicity an opportunity to give some thought to the mysteries left in nature—the problems scientists can attempt to solve without fearing disruption of the environment or ethical dilemmas.

There is more to consider when one is evaluating the merit of a scientific proposal than its public relations value. In an age when politics, education and culture are more and more frequently tailored to and packaged for the mass media, we must fear for the time when our science is also so oriented. If national scientific priorities come to be dictated solely by the marketability of dazzling pictures or by sheer industrial appeal, the national scientific community will not remain vital without fearing disruption of the environment or ethical dilemmas. We can be thankful for opportunities like Voyager to put aside our prejudices, and not the staples, of science.

The threat liberals present to their own future well-being may prove more serious than the short-term danger posed by the Reagan funding policies. The election results are a clear indication that the American people are more concerned with the state of the economy than that of the environment, the poor, or other traditional liberal policy issues. Liberals who glimpsed that their rich benefactors will return to the fold from their premature journey into funding the arts and humanities are fooling themselves. Even if the backlash against the Moral Majority and the National Conservative Political Action Committee succeeds in killing those groups forever, the conservative trend will remain. Some conservatives see the election strengthening the future of liberalism. The best and brightest of our generation, so the reasoning goes, will respond to the Republicanランドscapе by flocking to Washington to save the world. Everyone. William Safire recommended last week that young people planning a career in politics become liberals. This will probably be the only time in my life I fervently hope that people take William Safire's advice.

On November 4, I became an endangered species. I am a liberal—and I now see my future being threatened by both the right and the left. The threat liberals present to their own future well-being may prove more serious than the short-term danger posed by the Reagan funding policies. The election results are a clear indication that the American people are more concerned with the state of the economy than that of the environment, the poor, or other traditional liberal policy issues. Liberals who glimpsed that their rich benefactors will return to the fold from their premature journey into funding the arts and humanities are fooling themselves. Even if the backlash against the Moral Majority and the National Conservative Political Action Committee succeeds in killing those groups forever, the conservative trend will remain. Some conservatives see the election strengthening the future of liberalism. The best and brightest of our generation, so the reasoning goes, will respond to the Republican landscape by flocking to Washington to save the world. Everyone. William Safire recommended last week that young people planning a career in politics become liberals. This will probably be the only time in my life I fervently hope that people take William Safire's advice.

Even if these eager young liberals do take up the challenge and head for Washington, it is doubtful that they will find any traditional liberals left to join. Already, Senators Gary Hart, Paul Tsongas and other members of the Upper House's shrinking liberal delegations are talking of a "new liberalism." The shape this new philosophy will take, and how it will be related to what must now be called the "old liberalism," are not yet clear. As far as I can tell, this new liberalism will be based in great part on the curse of many contemporary Democratic bureaucrats: cost/benefit analysis. The strategy seems to be that the Republican budget-cutting hordes can be kept from the social programs by using cost/benefit to justify those programs' existence. Most liberals would be happy to be able to numerically prove that their pet programs work; few believe it can be done. It is no small task to quantify the economic benefits of cleaner air or quantifiable outcomes. But in this, political instinct to save one's skin and head for Washington, it is tenacity. Truly believing in the value and necessity of social equity requires supporting that philosophy through good times and bad. Liberals inclined to the right to salvage some of their programs may end up dropping over the cliff and losing everything. This is not to say there are no conservative programs liberals can support. Government waste is not justifiable in any political philosophy. Some programs, such as job training efforts, may have quantifiable outcomes. But in general, liberals may have to get used to the idea of being on the losing side of Congressional votes. That, however, is a far better fate than being on the winning side of a vote—but the losing side of a conscience.

Stephanie Pollack

Liberal costs and benefits

Liberal groups are already threatening liberals, calling for them to toe the line or else. The consequences of "or else" are, of course, illustrated by the election defeats of Frank Church, George McGovern, Birch Bayh, et al. The political instinct to save one's skin will give the new liberals much to think about.

Compromise almost inevitably leads to further erosion. Political programs may be amenable to compromise, political values are not. If there is a lesson for liberals to learn from this conservative victory, it is tenacity. Truly believing in the value and necessity of social equity requires supporting that philosophy through good times and bad. Liberals inclined to the right to salvage some of their programs may end up dropping over the cliff and losing everything. This is not to say there are no conservative programs liberals can support. Government waste is not justifiable in any political philosophy. Some programs, such as job training efforts, may have quantifiable outcomes. But in general, liberals may have to get used to the idea of being on the losing side of Congressional votes. That, however, is a far better fate than being on the winning side of a vote—but the losing side of a conscience.
An obtuse triangle

Betrayal, by Harold Pinter, at the Charles Playhouse through December 5. Harold Pinter's latest work, Betrayal, uses an interesting technique to analyze an adulterous relationship: the entire play unfolds in reverse. The first scene takes place in 1977, with the two ex-lovers getting together at a pub to have a drink and reminisce. The last scene depicts the first meeting of the pair, and happens in 1968.

This device, although not unique, is a novel method to diagram the mechanics of a play. Pinter in particular is the operative word for a play, not a playwright can do is play stylistic games, he have produced it. Nonsense - if the best a gimmick is a sufficient impetus to play. Some would argue that the reversed-insights to be gained from watching this phenomenon of betrayal. There are no new only thing novel about the play; Pinter has novel method to diagram the mechanics of meeting of the pair, and happens in 1968. reminisce. The last scene depicts the first in 1977, with the two ex-lovers getting adulterous relationship: the entire play una-

Betrayil,

Harold-Pinter, at the Charles Playhouse through December 5.

Betrayal,

Emma (Jenny Agutter), Robert (Paul Benedict), her husband and Jerry (Richard Jordan), her lover. In addition to the affair between Jerry and Emma, the three are tied together through various business dealings. Jerry is an agent, and Robert a publisher. To further embroil matters, Jerry and Robert are best friends. Why all these details were added is a mystery, since they just serve to confuse the direction of the material.

Paul Benedict as Robert delivers a precise portrayal of a precise individual. Robert leads an exact life with every word and gesture calculated. Benedict achieves this robot-like quality with ease. It is to be wondered whether Benedict would have been able to handle the role if it called for any sign of emotion. Robert doesn't seem to care about his wife's affair half the time, and explodes into cartoon fury the other half. It makes understanding of his true feelings very difficult.

Jerry Agutter does a creditable job as Emma. She is capable of expressing happiness, anger, desire, or reticence as necessary. Like Benedict, however, her true feelings are hidden most of the time. Part of this is due to the role, but some of it seems to be unfamiliarity with the character on the part of Agutter. Richard Jordan does the best job as Jerry. He sounds younger and more confident each time the clock turns back. In addition, Jerry is the only character to show strong emotion, and Jordan conveys the lover's feelings to the audience with accuracy and enthusiasm.

The sets for Betrayal are stark and empty. A chair and table, or a bed serves for most scenes. This concentrates the audience's attention on the actors. It's too bad that they say nothing of great import.

Michael Tavis

ON THE TOWN

The MIT Dramashop will present a series of one-act plays: A Magistrate, The Police and Line on Nov. 20, 21 & 22 at 8pm in Kresge Little Theatre. Admission is free.

The MIT Community Players' production of the children's show, Winnie the Pooh, will play Dec. 3 at 7:30pm, Dec. 4 at 2 & 7:30pm and Dec. 7 at 7pm in Kresge Little Theatre. Tickets are $1.50 for children. For information and reservations, call 253-4720.

The MIT Concert Band, John Corley, conductor, will present a program in cluding works by Bergsma, Rosen and Hod at 8:30pm on Nov. 21 in Kresge Auditorium. Tickets for the concert will be available all week in Lobby 10 and at the door.

The New Vaudevillians, Inman Square, presents The New Vaudeville, an evening of mime, stories and clowning. Performances are Nov. 18, 24, 25 and Dec. 1 & 2. Tickets are $3. Call 354-2915 for more information.

The award-winning play The Elephant Man will begin a 6-week engagement at the Shubert Theatre Nov. 24. Performances are Sat. at 8pm with matinees at 2pm Wed. & Sat. For more information, call 452-4120.
E. Campus housemaster wants 'adequate' dining

(Continued from page 1)

improvements, are employed, the base of students who eat there will increase each year due to forced commons," commented Houtsma. He did not deny that improvements are being made, but questioned the speed at which visible changes are incorporated into the system.

"There is much concern among the students, lots of talk and general unhappiness with the system," added Houtsma. In three-and-a-half years there will be over 100 students eating mandatory commons in Walker, he said, and there is much question whether a major improvement, such as a new dining facility, can be constructed quickly enough to serve these future students.

"Students here," said Houtsma, "deserve a commons dining room operated the same as in Baker." Currently there is no salad bar or provision for going back for unlimited drinks at Walker.

"Another problem is that there is no late commons dinner available here on the east side of campus. Many students who are involved in various sports are greatly inconvenienced by this," criticized Houtsma. Late dinners are presently available only at Baker dining hall.

"With all these people on commons a few years down the road, we need an acceptable dining program," commented Houtsma, "but they must not let the search for a permanent solution obscure the need for improvements right now."

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(Continued from page 1)
Announcements

The National Space Club (NSC) will award a $3,500 scholarship for the academic year 1981-1982. The scholarship is in memory of Dr. Robert H. Goddard, America's rocket pioneer. The award is given to stimulate the interest of talented students in the opportunity to advance scientific knowledge through space research and exploration. The 1981 award winner will be introduced to the nation's leaders in science, government and industry at the Goddard Memorial Dinner to be held March 27, 1981 in Washington, DC. The terms of the scholarship are as follows:
- The applicant must be a US citizen, at least the junior year of an accredited university, and have the intention of pursuing undergraduate or graduate studies in science or engineering during the interval of the scholarship.
- The selection for the award is made by the NSC Committee on Scholarships on the basis of the following:
  - official transcript of college record;
  - letters of recommendation from faculty;
  - accomplishments demonstrating personal qualities of creativity and leadership;
  - scholastic plans that would lead to future participation in some phase of the aerospace sciences and technology;
  - personal need is considered, but is not controlling.
- Applicants should apply by letter and provide the necessary data requested above no later than January 12, 1981, to the National Space Club, c/o Dr. Benjamin N. Early, 1629 "K" Street, N.W., Suite 700, Washington, DC 20006.
- Upon final completion of his work, the winner shall prepare a brief report on a topic of his selection to be presented to the National Space Club.
- Awards are made to stimulate the interest of talented students in science, government and industry in the aerospace sciences and technology.

Students interested in learning more about summer jobs overseas should come to meet Yves DuRante G (Course 15) and Bill Chambers '81 (Course 6-1) who will discuss their experiences. Descriptive literature and application blanks will be available. Application deadline is December 15, 1980. For more information contact the Office of Foreign Study, 5-108, on Monday, November 24, from 4-5pm.

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- we are looking for outstanding systems programmers—those with intelligence, drive, and a commitment to excellence. We want programmers who will advance The Standard in microcomputer software.

More information about Microsoft is available at the Placement Center. We will be on campus Friday, November 21, or an application may be made by resume, attention: Mr. Steve Ballmer, Assistant to the President.

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10600 NE Eighth, Suite 819 Bellevue, WA 98004 206-455-6080

We set the standard.
I credited the various teams' caliber. registered during the five-day affair to play, Buron House's Octathon team. She female counterpart to Octathon campus, did not field a team. only regret was that McCormick, place (506 points). The runnerup spot with 635. contest, as the Grapes took first points, while Number Six lost its opportunity. their games and earned 100 bonus points and Number Six-were in the remaining three teams-Senior House. Baker House (composed of freshmen and sophomores) and Number Six- were in the running for first place. Both Baker and Senior House won their games and earned 100 bonus points, while Number Six fell to contests, as the Grapes took first with 635 out of a possible 100 points, putting Senior House in the number one spot with 635. Buron used a 13-7 win in softball to edge out Number Six for third place (506 points). Manager Emory Behla '82 was pleased with the tourney, but only regret was that McCormick, the largest female living group on campus, did not field a team. Behla noted that the idea for a female counterpart to Octathon came when a woman from Baker House attempted to join the dorm's Octothon team. She canceled the various teams' hopes for doing a fine job in organizing and getting the teams out to play, as no forfeits were registered during the five-day affair.

Support from the men on all eight sections of the week-long tourney (soccer, football, hockey, ultimate frisbee, water polo, basketball, softball, and volleyball) took second place with 422 points. Baker won the inaugural Octothon in 1979, using a 3-2 softball win over SAE to take last year's title. Buron House campus was excellent. The games were well attended, and the fans cheered their favorite. Behla hopes that in the future more teams will participate, including independent groups such as laboratories, etc. She also expressed the hope that participation in Pentathlon will encourage women here to become more involved in sports at the club and varsity levels.

The final standings were:

1. Sigma Alpha Epsilon 1554
2. Baker 1422
3. Burton 1354
4. Lambda Chi Alpha 1256
5. Theta Chi 1022
6. Sigma Phi Epsilon 1017
7. Random 1013
8. Kappa Sigma 937
9. Pi Lambda Phi 909
10. Delta 886
11. Lab for Mech. Prod. 778
12. Alpha Epsilon Pi 749
13. Alpha Tau Omega 694
14. Alpha Delta Pi 653
15. Beta Theta Pi 653
16. Phi Kappa Sigma 617
17. Sigma Chi 567
18. Delta Tau Gamma 482
19. Number Six 377
20. Theta Xi 347

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