Deputies, laboratories to prepare five-year reports

By Bert S. Kaliski

Deputies and laboratories, and other operating areas of the Institute are preparing detailed reports of their plans and activities, specific plans for next year, and general plans for the following four years, according to Provost Francis E. Low.

These so-called five-year reports, will provide "a detailed snapshot of what we are doing," Kaliski said.

Two banks to install ATMs in Building 10

By Janice M. Eisen

BayBank Harvard Trust and the Shawmut Bank of Boston will install automated teller machines (ATMs) opposite the MIT Cais- sier's Office in Building 10. The installation will begin as soon as the room has been renovated, according to Comptroller Philip J. Keohan.

The machines will be located in room 10-186, formerly the Shiefer's Office in Building 1.

Present plans attempt to avoid the security problem by limiting the machines' operation to the hours between 9 a.m., and 5 p.m., although Keohan said there is a possibility of expanding those hours in the future "if it seems advisable.

"The banks are not overly concerned about the security of the machines, said Robert E. Lee '58, MIT investment accounting officer, but MIT is concerned about the security of its tenants.

The ATM's agreement with the banks stipulates that they will not advertise these machines to the general public, according to Lee.

While the Infinite Corridor "seems like a public place," Lee said, "at two in the morning on Saturday it's deserted" and people using the machines could then be vulnerable. He said MIT may not legally prevent outsiders from using the ATMs, but that they will not be encouraged to do so.

The choice of banks was not difficult, Lee said. The possibilities were limited to those banks which already have ATMs at locations other than their offices because, he said, "we didn't want ATMs opposite the MIT Athena Center.

"I think the students will be more than pleased with the addition of ATMs on campus," said Dean for Student Affairs, Stephen D. Immerman.

MIT requires activities to report their payrolls

By Bert S. Kaliski

The Student Employment Office began to require student organizations which pay students to report those payments, according to Deputy Dean for Student Affairs, Philip J. Keohan.

The organizations operate under MIT's tax umbrella, taking them from social security taxes and other fees. Their payrolls, Immerman said, are not legally MIT funds, and the institute must report them.

"MIT should have been includ- ing information about income tax expenditures about student or- ganizations" on Internal Revenue service forms 990 and 990T, Immerman said. The forms are filled out by non-profit organizations. Allowing the Student Employ- ment Office to maintain the pay- roll is "the most convenient" way to satisfy the federal requirements, he said.

Reporting of payroll was "relatively minor all parties," said Eph J. Casarano Jr., director of internal audit.

"We were delin- quent in their reports to students, organizations, he said, "and we wereピンning up, and we helping them with their pro- grams. We have a legal require- ment, but we've not performed that legal requirement," Immerman said.

The emphasis on reporting payroll is not a result of the st ute, but a result of several student organizations pay an "awful lot" of money, he said.

"There are tremendous penal- ties associated with not report- ing," he said. "They go as high as $500" for each student organi- zation whose payroll is omitted, according to Lee.

"The penalties are "one thing the Institute obviously does not want to be caught with, said Casarano.

Researchers find gravitational lens

By Simon L. Garfinkel

Researchers at MIT, the Cali- fornia Institute of Technology (Caltech), and Princeton Univer- sity have discovered a new gravita- tional lens in space.

The discovery was made by looking at the light of an object called "MG2016 + 112," which is not a result of the quasar but a result of the gravitational bending of light by a large object, according to Lee.

Quasars are distant astrono- mical objects which radiate light in both the visible and radio spectra. Normally, light quasar reaches Earth relatively unobstructed, as shown in A.

If there is more than one large gravitational mass in the vicinity of the lensing system, the bending will not be symmetric. In the case of MG2016 + 112, the gravitational lensing systems were discovered, appears to consist of two astronomical objects, a distant quasar and a closer, but still very distant, galaxy which splits and bends the light emitted by the quasar.

The researchers then examined these remaining sources to deter- mine whether two or more ob- jects are present.

In the vicinity of the lensing system, the bending will not be symmetric. In the case of MG2016 + 112, the gravitational lensing systems were discovered, appears to consist of two astronomical objects, a distant quasar and a closer, but still very distant, galaxy which splits and bends the light emitted by the quasar.
Unique gravitational lens found

(Continued from page 1)

jects in the source grouping had the same spectrum and thus the same composition. The theory is that if the light from one quasar is being split in two, then it will appear that two objects in a cluster have the same spectrum, indicating the presence of a gravitational lens.

From the spectrum, the redshift of the object can be determined. As light-emitting objects recede from the observer, the emitted light shifts to longer and longer wavelengths. This process is called redshift because blue light is shifted towards the longer red wavelengths. The amount of shift is proportional to the speed at which the object is receding. Because the universe is expanding, the farther away an object is, the faster it is receding. If two objects in close proximity in space are observed to have the same spectrum and the same redshift, then astrophysicists assume they are two images of the same object. This splitting in two is evidence of the existence of a gravitational lens.

Spectrum Unique

One of the unique characteristics of MG2016 +112 is the extreme narrowness of its spectral lines. The researchers, while calling the object a quasar, suggest that it may represent a previously unknown class of astronomical objects.

In their report of the discovery in the January 6 issue of Science magazine, the researchers suggest that the gravitational lens may be magnifying the quasar’s light in addition to bending it. According to the report, it is quite possible that the two quasar images in MG2016 +112 would not be visible without the lensing caused by the associated galaxy. This would explain why this object is visible while other objects with such large red shifts are not visible.

Models developed at Princeton University by Turner and Gunn indicate that between two and five quasars in every thousand will be lensed, and that the greatest number of lensed objects found will have redshifts between 1 and 2, Burke said. The models rely on basic assumptions about the amount and distribution of mass in the Universe which will be substantiated if the models are confirmed by observation.

Possible Applications

Astrophysicists expect gravitational lenses to be useful in their research. For example, the output from a quasar is not steady. Since the two paths of the split light from the quasar may not have the same length, variations in the quasar’s output may be observed at different times in the two images. This could make it possible to calculate the exact distance Earth of a lensed quasar, said Burke.

Observations of the effects of lenses may also make possible better estimates of the age of the universe and of the amount of matter it contains.

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**World**

Lebanon fighting continues — The death toll among US servicemen in Lebanon rose to 299 last weekend as two Marines were killed by sniper fire. In a related story, Israeli Cabinet Secretary Dan Meridor said his government intends to insist that Syrian troops withdraw from Lebanon simultaneously with those of Israel, or Israeli forces will not pull out.

South Africa ends Angola invasion — South Africa began pulling its troops out of Angola Sunday, leaving the South-West Africa People's Organization (SWAPO) in control, with over 10000 of its members in flight northward. South African officials rejected Friday's UN Security Council resolution condemning the invasion.

**Nation**

Lavelle sentenced to prison — Rita Lavelle, former Environmental Protection Agency official, was sentenced Monday to six months in prison for obstructing a congressional investigation. Lavelle called her conviction "an unbelievable nightmare" and said she will appeal her conviction.

Taxco, Getty merger — Texaco Inc. announced Sunday the signing of a $9 billion merger agreement with Getty Oil Co. If the merger survives a legal challenge threatened by Pennzoil Co., it will be the largest such deal in history. Pennzoil had announced an agreement last week to buy 43 percent of Getty Oil.

**Sports**

Caltech 1, UCLA 0 — During the Rose Bowl football match between UCLA and the University of Illinois on Jan. 1, students from the California Institute of Technology (Caltech) used a remote-control device to switch the scoreboard so that the names of the competing teams read "Caltech" and "MIT." Unable to overpower the hackers' transmitter, officials were forced to shutdown the scoreboard for the remainder of the game. (The final score was UCLA 42, Illinois 9.)

— Janice M. Eisen

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To the Editor:

Simmon L. Garfinkel or his column entitled "Do not price out excellence" was a very interesting piece. His discussion of a proposal for making it unnecessary for MIT to continue to charge for its high tuition which it currently does. While I do not disagree with his ideas, I do object strongly to his ideas on a point of view. Because why have I really experienced all these things in this article - loans, grants and work-study. From my point of view, I have seen the MIT experience in the last few years. And I strongly object to the idea of writing for the aid of financial aid which have allowed me to experience and have nothing but praise for the modes of financial aid which have allowed me to attend MIT.

My work-study experience in the library system afforded me an excellent opportunity to discover a wide range of resources available at MIT. And, despite our "disadvantage," I know of no study, which has shown that resources on work-study suffer from lower GPA's than the other students at the last instance.

My loans have consisted of Guaranteed Student Loans from the Boston Five - a local Boston bank very willing to make educational loans. Sure they're making money and sure the loans have to be paid back, but they're helping to educate me. So how can I feel any animosity toward them?

Finally, I have received grants the last two years from MIT as part of my financial aid package. Since I'm from Texas, these grants have come from a scholar-ship fund endowed in 1960 by Eugene and Margaret McDermott (as in McDermott Court) to help out students from the Southwest in paying their costs at MIT. And last fall, McDermott still comes to Cambridge annually to visit with "her" students.

I do object strongly to the ideas he has presented. I hope, and I think the Financial Aid Office would also hope, that students like myself who rely on both aid and loans to get their college education don't feel like "beggars." I certainly don't.

John M. Osborn '83

Opinion

Grant recipients are not "beggars"

To the Editor:

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John M. Osborn '83

The Tech

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Reacts on MIT admissions

To the Editor:

Every day I must walk up and down the infernal corridor ten times, weeding in and out of stu- dents, professors, secretaries and visitors from every corner of the world. I never get bored of watching them zoom by. No two MIT people are alike. The halls are walls are also great to look at. LSC movies will be playing, what parties are being put on. student reactions to political controversies, and activities in various clubs all decorate the wall like wallpaper. Last week, how- ever, as I walked down the corridor for the second time that day I saw a sign above an office door that brought back immediate memories. That ominous sign that every student had at one point known well. The sign that said "Admissions Office" stopped me in my quick stride. I walked into the office and sat down casually watching prospective students.

I remembered how I labored countless hours to perfect my applications making sure that every side of my life was shown clearly and to my benefit. I remember putting my finest clothing when I visited schools and trying to look good in front of anyone having anything to do with the school. Was it worth it? Well, yes I did get into MIT but now I look back I know it wasn't be- cause I had a nice tie on.

Many high school seniors think that if they don't get into their first choice school, they'll be unhappy for the rest of their lives. What is this great decision based on anyway? What do these teen-agers know about MIT or any college for that matter besides it that it might have a good reputa- tion, be it in a nice location or that the food stinks? I chose MIT for a very different reason than what I am experiencing. What senior would ever think that MIT, "The Nerd School," would hold at least five parties every single weekend of the year? How can a senior know what kind of lectures he likes if he doesn't even know what a lecture is? If I didn't get into MIT I would go somewhere else and learn all the new things I didn't know about that school. Every school has its advantages and disadvantages. There is no perfect school for anyone. A school shapes to your needs and you shape to its needs.

I got up and left the office. I wished I could somehow tell those applicants to relax and take it as it comes, but I know that the tension was inevitable. It is the first of many big transitions in a student's life. What more things were to come for me? In my next transition, will I relax or will I go the same way as I did a high school senior? This situation won't be any different. There are so many things out there. How can I grab one and call it mine thinking nothing else will work for me? An open mind will make everything I do a success. The flow of people then grabbed me into its current as I proceeded to my next class.

Stephen Hoening '87

Advertised "IAP" activities non-MIT

To the Editor:

Despite the use of the term "IAP," two programs advertised in the Dec. 6 issue of The Tech are not part of MIT's Independent Activities Period program, but rather programs run by out- siders (in one case, a commercial company, and in the other, an unknown individual).

Mary Z. Enterline

Manager
Independent Activities Period

Editor's note: The two non-MIT-sponsored activities were a good-reading course and a project on acoustical analyses.
Faults Garfinkel columns

To the Editor:

If it is your intent, I would like to thank The Tech for providing such great comedy in the form of recent articles by Mr. Simon L. Garfinkel. I fear, however, that Mr. Garfinkel actually believes the rhetoric he has produced of late. To remedy this situation, I suggest that, just once, he try thinking and writing at the same time. To remedy this situation, I suggest that, just once, he try thinking and writing at the same time.

Mr. Garfinkel's series of articles on education at MIT (?) seems to be based on the premise that MIT, as it stands today, is grossly mismanaged, inefficient, and practically deinstitutionalized to an education. I quote, "MIT should be teaching its students three times faster than it currently is. MIT students should remember what they learn, in the smallest detail, forever." Accompanying these changes should be an increase in the amount of free, non-academic time, at the disposal of every student.

I understand why the new Freshman Writing Requirement is so urgently necessary. Mr. Garfinkel's series of articles on education at MIT (?) seems to be based on the premise that MIT, as it stands today, is grossly mismanaged, inefficient, and practically deinstitutionalized to an education. I quote, "MIT should be teaching its students three times faster than it currently is. MIT students should remember what they learn, in the smallest detail, forever." Accompanying these changes should be an increase in the amount of free, non-academic time, at the disposal of every student.

These three sentences are sufficiently ludicrous to make my point without further comment. I am, however, disheartened to learn that The Tech is so desperate for contributors, that anyone who is willing to sit at a typewriter twice a week is automatically elevated to the position of favored columnist.

As for Mr. Garfinkel, I can't help wondering why, if he has all the answers, he is at MIT now, instead of at his own school, learning the right way. Fear not, Americans, I'm sure another five-part series explaining this phenomenon will be forthcoming from you-know-who.

Mark E. Thurston '86

Marketing, teaching incompatible

To the Editor:

I marvel at the inconsistencies apparent in Simon L. Garfinkel's column in The Tech on Dec. 2. He calls for a "free academic environment" and yet dictates just what profit-oriented syllabus will be imposed upon the teachers of software subjects and what motives will be adapted by the faculties of the Sloan School and the Visual Language Workshop. He calls for the environment necessary to support "aggressive marketing," yet disparages MIT by deplores its role that financial aid has played when he disparages the strong financial aid of MIT of seventeen years in MIT's aid of students three times faster than it currently is. MIT students should remember what they learn, in the smallest detail, forever.

I offer the above remarks as an individual, personal response. The experience I have gained over seventeen years in MIT's aid of office compels me also to comment that Garfinkel is way off base when he disparages the strong role that financial aid has played in making possible the attendance of centuries to thousands of young people who have not "felt like beggars" — as he says they must.

Leonard V. Gallagher '54
Director
Student Financial Aid Office

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National Car Rental
Two banks to install ATMs

(Continued from page 1) to be a guinea pig." The only three area banks with remote ATMs are BayBank, Shawmut, and Shawmut and BayBank. The Bank of Boston studied MIT's proposal, then declined it, Keohan said. Shawmut and BayBank will pay a small monthly fee to MIT to cover rental of the space and the cost of cooling required by the ATMs. They are also sharing in the cost of renovation. Each will pay $19,000 toward an estimated cost of $66,000, Keohan said. He explained that the costs were divided according to how much of the renovation was needed for the ATM installation and how much for MIT's use.

MIT will not be earning money from the installation, Keohan said, but "we do consider it an enlargement of services for the community, and over the long run we hope it will relieve congestion across the hall." He emphasized that there will be no change in the services provided by the Cashier's Office. "They'll still be cash personal checks. . . . We want the [ATM] to be a convenience for the whole community.

Negotiations with the banks began this summer. "We had hoped to be much further along with this," Lee said, "but the agreements took longer than anticipated" because of MIT's security concerns.

"Both Shawmut and Harvard Trust are very anxious to start," Keohan said. Renovation of the room has begun, and he expects construction to start "fairly soon." Neither he nor Lee could say when the machines will become operational.

Departments, labs will prepare 5-year reports

(Continued from page 1) in the process is reducing support staff by not filling vacant positions. Each department, laboratory, or operating area will report to its representatives on the Academic Council, Low said. Members of academic and research areas will then report to Low, while representatives of finance, development and student affairs will report to Senior Vice President W. R. Dickinson '37. A planning group, consisting of three deans and two vice presidents, will then organize the reports, Low said. The members will be chosen in their official capacity, Low said.

The members are Dean of Engineering Gerald M. Kuttner '61, Dean of Science John M. Deutch '44, Dean of Humanities and Social Sciences Margaret A. Gardner '50, the Admissions Office and President Constantine B. Sissides '61, Vice President of Administration and Finance Peter B. Frisch '57, Vice President for Research and Planning Michael D. Hoimes '57, Vice President for Students John Tobin '68, and Vice President for Development Donald J. Wall '57.

The reports will be submitted to the Academic Council in May, Low said. A draft of the report will be available to the whole community upon request. A schedule of charges for such copies will be obtained from the regional office.

BayBank Harvard Trust
Michael D. Holmes, President

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Stop by our offices, Student Center room 483, any Monday night this IAP and find out more about The Tech. Experience not necessary. Pizza will be served.