Engineer employment follows economy shift

By Curtis Reeves

The Electrical Engineering Department presented a discussion on "A Look at Engineering Employment" by representatives of Arthur D. Little, Inc. last Thursday.

Offered as part of the IAP activities of Course VI, the program discussed itself "problems related to graduate school and placement opportunities," according to Roger Long. Other speakers from Little and Company were Scott Canan and Edward Swan, who work in hiring for the company along with Long.

Long first noted that large numbers of engineers, particularly in New England and on the West Coast, are unemployed, but emphasized that this is not a cause for serious alarm. Similar job losses after World War II and in the late fifties lasted only for a couple of years, and actually, proceeded by an increase in graduate advancement for engineers in all fields.

In the same topic. Long commented, "In my view, what is going on now is a delayed version of what we should have seen in 1918," since the transistor and space technology increased many engineers from financial crisis in the fifties.

"Engineering growth is at an end only if they can produce, he emphasized. Emphasis (Please turn to page 2)

Patent revenue to increase

By Lee Giguere

MIT's patent portfolio has been netting the Institute in excess of $15 million in recent years, but "an aggressive policy should substantially, in time, increase still further," according to Gilbert.

According to Lawrence Gilbert, Director of Patent Administration, the increase is not due to a "purposive policy" in licensing its patents.

The Patent Office, however, is now in the process of cataloging MIT's patent portfolio. By distributing a catalogue of MIT's patents within the Institute, Gilbert hopes to generate interest in attracting possible licensees. He noted that it was important for MIT not to miss a "poor" winner.

Recently instituted

Until about ten years ago, the Institute's technology was managed by an outside organization, Research Corporation. However, when a dispute over the licensing of Professor Jay Forrester's computer memory core, the patent administration office was set up to handle the case. Since that time, the office has not actively attempted to exploit the MIT patent portfolio.

Gilbert explained that in the past, licensees were suggested by the inventor, the technical assistant, the patent attorney, or were picked up from leads seen in publications. He also noted that many licenses were companies started by the inventor.

An additional method of licensing, according to Gilbert, is to go through a "product scout." This is usually a small company that specializes in licensing patents and usually has contacts with several companies. MIT's Gilbert has worked with six or eight such groups.

Licensing difficulties

Many of the things MIT holds patent rights on, Gilbert pointed out, are not attractive to the market. Often, the techniques or hardware patented by a patent office are not sufficiently developed for them to be put on the market by a commercial concern without extensive development by the licensor. This makes it difficult for MIT to license its patents since any license would be forced to spend considerable time and money to develop its own product.

The success of any licensing effort made by the Patent Office, therefore depends on factors outside the control of the office, such as the market. Gilbert, however, believes that MIT contains a number of potentially good inventions.

Gilbert noted that MIT's record in successfully licensing its patents, over the past 100 years, is better than the past. "The more support, the more interest we get," he said. "The greater potential for growth there is." (Please turn to page 2)

Alcohol worse than 'pot'

By Bruce Peetz

The Director of Brown University's Medical School, Dr. Roswell Johnson, recently appeared before the American Association for the Advancement of Science that alcohol is currently a greater problem than the United States than malaria ever was.

"The abuse of alcohol, a highly advertised legal drug, is today a health menace amounting to 7,000,000 under therapy (or who should be such facilities) and 30,000,000 cases of alcoholism. This is a far greater threat to self and to society than the moderate use of illegal marijuana."

Dr. Johnson found that alcohol is responsible for the death of 45,000 Americans yearly. "I share the feeling of Dr. Joe Fort, Dr. Stanley Kutcher and others that alcohol is the most dangerous drug of all."

On the other hand, Dr. Johnson described the classification of marijuana as a narcotic "total nonsense." He said that the U.S. Government has never been repugnant to a scientific committee and that the茴h low for growth there is."

(Please turn to page 2)

Presidency selection likely for February

A final decision on MIT's next move in the contest for February, informed sources have revealed to The Tech.

The Corporation Joint Advisory Committee has already decided on its choice, and passed the name along to the Corporation selection committee. This committee will consider CIC and other recommendations, before making a nomination to the Corporation.

Although the identity of the CIC's decision was not released, two criteria were reportedly judged most important: (1) the president should come from a science or engineering background, and (2) the executive should have either educational or a more prominent education.

In the past few weeks, various groups have been circulating names for the presidency in the press. The most prominent is that of Provost Jerome Wiesner. His fifteen-year stint as MIT's provost centered around the Institute's own education, and his reputation for technological competence is unimpeachable. However, the Joint Committee's concur with CIC's criteria. The candidates who are most likely to be considered are:

Dr. Paul Alberthy, and newly-appointed Wiesner. His four-year stint as national efforts, and his national commitment to education.

On the other hand, Dr. Johnson is the leader of the college stu
dents. "We are now in a situation where the respect for the law as it was produced during the 1920's."

The second effect is the credibility of MIT to the public, and about the other drugs they buy. Of all the samples sold as medical marijuana, 75 percent of it was distributed by Dr. Johnson, is an "admirably qualified doctor" with a thirty-year tenure at the University. The dichotomy that exists, he feels, is a reflection of the fact that laws were written by politicians rather than scientists.

This dichotomy has two further effects. The first is expressed by Attorney Edwin Hastings of Providence as the producer of medical marijuana. The second is the disrespect for the law as it was produced during the 1920's."

The second effect is the credibility of MIT to the public, and about the other drugs they buy. Of all the samples sold as medical marijuana, 75 percent of it was distributed by Dr. Johnson, is an "admirably qualified doctor" with a thirty-year tenure at the University. The dichotomy that exists, he feels, is a reflection of the fact that laws were written by politicians rather than scientists.

This dichotomy has two further effects. The first is expressed by Attorney Edwin Hastings of Providence as the producer of medical marijuana. The second is the disrespect for the law as it was produced during the 1920's."

The second effect is the credibility of MIT to the public, and about the other drugs they buy. Of all the samples sold as medical marijuana, 75 percent of it was distributed by Dr. Johnson, is an "admirably qualified doctor" with a thirty-year tenure at the University. The dichotomy that exists, he feels, is a reflection of the fact that laws were written by politicians rather than scientists.
MIT gets giant-screen TV

(Continued from page 1)

The landing (sound only, no picture) will be broadcast between 4 a.m. and 4:30 a.m. Friday, February 5. The first lunar walk will be broadcast from 3:30 a.m. to 10:30 a.m. The lunar liftoff will come between 1:30 p.m. and 2 p.m. The rendezvous with the orbiting command module will come between 3:15 and 3:30 p.m.

The flight plan calls for one TV show from space on the trip — 30 minutes of transmission starting at 7:55 p.m. Sunday, February 7. The networks plan to show it and the Student Center system will offer their image on the large screen.

Splashdown, also available in the Student Center, will come between 3:30 p.m. and 5:30 p.m. Tuesday, February 9.

IAP, self-paced study
cause 'I's to increase

(Continued from page 1)

The number of incomplete grades was greater this year than in previous years, however.

The term to complete the material were taking advantage of. Searle explained that while a student was perfectly free to carry over his course work into January was certainly a legitimate IAP activity.

Professor of Nuclear Engineering Kent Hansen, a member of the CEP's subcommittee for the evaluation of IAP, com- mented that the continuation of course work into January was certainly a legitimate activity. He explained that many professors and students in his department were taking advantage of the period to complete course projects, which he noted, are frequently turned into thesis topics.

Junior or seniors, however, Searle specialized that among the reasons for the increased number of incompletes were that some freshmen subjects were operating on a self-paced basis and that some students had chosen to use the January IAP to complete one or more of their courses. The fact that the break term was a factor in the increase, saying that professors, not having a feeling that their break term really was, felt forced to put a heavy work load on their students in the last few weeks of the term to complete the material they wished to present. He added that the CAP was investigating the possibility that some professors might have usurped the January period to complete their courses. Searle explained that while a student was perfectly free to carry over his course work in January, professors were not.

Engineer employment
follows economy shift

(Continued from page 1)

is shifting from a knowledge of circuitry and other basic ideas to "familiarity in general technolo- gical areas" such as use of data processing equipment, and the application of engineering to applications engineering is now re- ceiving big interest," he said. He also warned those considering converting to become good salesmen that the salesmen are in demand.

Speaking briefly, Swan noted that the expanding fields in the military area are in need of new products on the market for their employers. Those who have been able to keep jobs have been "working engineers who can turn a quick profit for the company." He observed that the age group be- tween 35-40 is the most secure.

MIT holds all rights to patents devised here

MIT obtains patent rights on the inventions of members of the academic staff when the invention was done under contract for the use of institute time and facilities. In such cases, MIT provides the inventor with a share of its royalties. The Institute, however, waives its rights in the case of students. "Patent and Copyright Policies and Procedures" specifies that work done by fac-ulty and staff members on their own time without significant use of Institute facilities is exclus-ively their own.

Guidelines, not rules
Gilbert explained, however, that "Policies and Procedures" is not a set of hard rules, but rather serves to provide guide- lines. The decision on each in- vention is made by the Commit- tee on Inventions and Copy- rights. In questionable cases, in- vestors must disclose their work to the Secretary of the Commit- tee. The procedures then specify that the Committee will make its decision on equities for the in- ventor and MIT's intentions on whether to file a patent applica- tion within six weeks.

In cases where the research was being done under contract to either the government or pri- vate industry, "Policies and Pro- cedures" notes that the patent rights are held as specified in the contract. The generally means that the sponsoring organization holds all rights to the invention.

MIT and the Student Center Committee present large-screen full color

video television coverage of the Apollo 14 lunar mission, in the Sala de Puerto Rico, Student Center, from lift-off at 3:23 pm, Sunday, January 31, to splashdown at 4:50 pm, Tuesday, February 9. Also, other normal television programming during the ten-day mission will be shown as available.

Hours for showing depend on the man on the moon. Watch your daily newspaper for times.
Science Museum oriented toward children

By David Searls (Ed. note... this is the second of two parts.)

Who is the Boston Museum of Science for? Says a publicity manager, "It really is for everybody— not just the scholarly few, the scientifically sophisticated..."

But what is it really for? "It's for the last of two parts.

"We handle a tremendous number of schoolchildren with this program, giving them tours of the museum. Though it's not advertised, the museum doors as hour early each day, at 9 AM, to get all in. When one tour is over, students from nursery school to high school, we find that the bulk of them come from the second through eighth grades."

This is by no means the extent of the Museum’s activities in the field of education. Also, offered an skulle-top and way type programs, with fees of $17 and $22 and scholarships available. These range from the Discovery class, for ages 4 and 5, to the Senior Explorers, for grades 7 through 10. Other programs include Science Projects for Elementary Teachers, "to strengthen their ability to conduct natural history and physical science experiments," and Adult Education for those that visit them at school.

"We don't mind at all being criticized – you have to have it to make progress. But we don't like it because it is criticized by people who don't want to get anything out of what you're doing and why you're doing it before they start shooti-

"Most of these kids are from inner Boston Title I schools – though there was an arrange-

"We're showmen, and the public love it. We don't charge anything for this program and we would like to continue it. We have to be quick; we have to get the point across. And we do it by showing.

"We're going to show some of the habits that don't take a position is a tough one.

"Science Museum oriented toward children.

"Who is the Boston Museum of Science for? Says a publicity manager, "It really is for everybody— not just the scholarly few, the scientifically sophisticated..."
Advisory system

By Le Gigante

The words "advisory system" seem to appear to be a consensus about what a "advising is or should be, or at MIT, or even in the contact between students and faculty at the institute. Students come to see their relationships with their advisors as "man-to-man" relationships. They expect more detail and support from their advisors than they do from their faculty members, leading to a definite differentiation of roles.

The purpose of the "advisory system," as Buttner sees it, is to provide a more "detailed course information" for students. He notes that the undergraduate years typically coincide with a period of major emotional change and growth. He also points out that "most entering students have not experienced adult ('man-to-man') relationships." Parents, he explains, cannot replace the relationships with older people, even those twenty or thirty years their junior. Students must try to help them, and their advisors can be a source of support.

Assumptions

Buttner supports his assertions by means of what he calls "assumptions" which form the basis of his thinking. He points out that "the undergraduate years typically coincide with a period of major emotional change and growth." He also notes that "most entering students have not experienced adult ('man-to-man') relationships." Parents, he explains, cannot replace the relationships with older people, even those twenty or thirty years their junior. Students must try to help them, and their advisors can be a source of support.

Correction

To the Editor:

I would like to correct a question in the article. Le Gigante's comments are quite accurate on my views but they seem to be out of context. Le Gigante referred to a recent publication of this author's e-mail, which gives the impression of my views on the issue of the "advisory system." I had thought that this had been clarified in the previous publication. The Department of Labor estimates that the supply of college graduates exceeds the demand by 150,000 students. Modern education is about the need for a contractual arrangement to insulate the students from the market for college graduates. The Department of Labor estimates that the supply of college graduates exceeds the demand by 150,000 students. Modern education is about the need for a contractual arrangement to insulate the students from the market for college graduates.

Search lacks needed student, faculty roles

By Harold Fedorow

One can have full confidence but relief to know that we may finally have a search committee in the next month or so. We students will never know the course, who was in charge of it, or who was in charge of the search committee. But that's all right. His major constituency, the Corporation, is the group that is choosing him. His other major constituency, the student body, is not present at all.

In an April 1970 letter, students of MIT did not have an equivalent to the faculty committee. They didn't get any answer, and the closest they got to was that they felt that students were here only a short time and they would have less responsibility for the continuation of MIT. I had thought that this argument had been successfully refuted by the few letters as being relevant to the contrary. Not the least of which was that the students were appointed to the Corporation committee, something that could be made to appear much more important for MIT than our next president. Not only did it have undergraduates, but also graduate students of a group that is traditionally far less crucial in the appointment process. Few found it inappropriate to include these students, and the wrong or right of theoma, a stronger argument could be made for excluding the student from the selection of a president.

Role of Corporation

As one is constantly reminded in the weekly meeting of the Corporation, "the Corporation is the major stakeholder in the management of MIT." This means that the degree is granted in its name, that it is the responsible party for academic appointments and tenure policies. It also means that the dean has the final authority to approve the selection of a president. MIT is more than a corporate body. The pressure on Dr. Widlar to maintain the status quo is very high. A change in leadership could mean that the policies of the past will continue, and the students will be left to face the consequences of their actions. The students must demand that the Corporation make a decision and select a new president who will be sympathetic to their concerns.

Letters to The Tech

"Noobies"

To the Editor:

Michael Polanszky's courage in the latest issue of The Technological Review, should not be undermined by a recent article by the editor, which states that "noobies" are not really noobies. This is a misunderstanding of the meaning of the term. The term "noobie" is used to describe someone who is new to a particular field of study. It should not be taken as an insult or a derogatory term.

"Grades"

On grades, for instance, The Tech of January 13 contains an editorial complaining about "gap year" students who develop problem solving skill and real learning are mutually exclusive. Problem solving skill never replace anyone from understanding a subject. Some courses may have poor correlation between lectures, homework, sections, tests. Blaming that on grades is to blame the student for even the most radical change in the student's attitude. The student who once felt like "noobies" but got over it to read the Commodities is very important that we understand the meaning of the term "noobie." Are there many of them? If so, why? We must guard against change for the sake of change, for even the most radical changes will be the following year's status quo and if the changes are not really for the better, the whole cycle will begin again.

It would also examine the sources of student (and human) errors. Students and kind-ly teachers and administrators must be reminded that even the most supportive environment cannot take all the pain out of growth, the loss out of choice, the risk out of challenge. The search is not over yet, and we must guard against change for the sake of change, for even the most radical changes will be the following year's status quo and if the changes are not really for the better, the whole cycle will begin again.
entertainment

Book:

A Look at Summerhill

By Lee Giguere

Summerhill is the name of an experimental school founded in 1921. But it seems unfair to refer to it as an experiment when at the time the book was written it had been operating for 40 years.

Summerhill is based on A.S. Neill's belief that children are inherently good and that if they are given freedom to develop, they will turn out to be happy, well-adjusted adults.

Summerhill students are not "required" to do any of the things ordinary schools demand. Lessons are optional, the teachers do not live in the school hierarchy, and all the school's "laws" are made at General School Meeting. Moreover, everyone, from Neill to a six year old student, has an equal voice.

The book, then, is Neill's own effort to express the whole of his theory of child development. There's not really much theory in his book, though.

Neill begins with a few basic assumptions: that children are good, not evil; that they need love and approval from their parents and teachers; and that they should always be treated as equals.

From these assumptions he practices his philosophy of education. No child should be forced to do what he doesn't want, Neill asserts. If he should be punished, because punishment can only result in hate for the parents, a hate which must be repudiated and will therefore create feelings of hatred in the child. He shouldn't be lied to and his natural curiosity about sex should not be repressed. Only an open, honest attitude towards sex, Neill says, will enable his children to develop without preoccupation with sex.

He takes a Freudian view of sex and puts much emphasis on it in his book. He blames parental removal of masturba- tion for many of the problems that children have. When confronted with the truth about sex and masturbation, Neill shows that some children will be rather quickly "cured."

Neill's prescription for child rearing appears to be good one. And while the book covers Summerhill "a radical approach to child rearing," its ideas don't seem radical at all, but natural and obvious. Neill's principal contribution is then his ability to apply these ideas in a radical way, making the child's needs and not society's, the governing criteria.

The book, then, is Neill's own effort to express the whole of his theory of child development. There's not really much theory in his book, though.

John Lennon - Plastic Ono Band (Capitol-Apple)

The tickets did not say it was a "Joan Baez Concert." It was "An Hour With Joan Baez."- and that made it sort of different. It had a much more personal touch. And last Friday night, we got to see and hear Joan Baez, the performer, but more importantly, Joan Baez, the person.

She is certainly professional enough a performer, having been around for so long, and she anticipated the pictures talk and later arrivals and handed it up to them. But the performance itself is a very personal thing for Joan. She chooses her songs to reflect her political and personal feelings, and she wants her own songs to express her thoughts about his husband, David, who is still in prison, and for her son, Gabriel, whom she brought along and introduced to everybody. Gabriel, whom she brought along and introduced to everybody.

The whole evening was very pleasant. Also, due to her personal policy, all tickets were sold at $2 for a reserved seat. That is a special favor to the would-be concert goer who often cannot afford $5 or more for a good seat at a concert. It is rare nowadays to see a popular performer who keeps the audience in mind to this extent, but it is right in character for Joan Baez.

Lennon:
The Dream is Over

By Jay Pollack

Joan Baez - Brown-Eyed Girl - It makes you want to get up and dance to it while it comes on the car radio. And the whole new album is like that, it reaches out for you. You can see by the pictures on the jacket what size people the musicians are. And Van himself is smiling! If you check any man's old ones with his old group, you can't find a smile anywhere. But this record is covered with the happy faces of his friends and accompanists and Van Morrison as he sings to you.

He's no stranger, yet he manages to make it seem as if he wants to and get across every bit of feeling that each song carries. The backup is better than ever. Never too strong and always lively enough without being showy. No one in the band is especially brilliant and the street choir seems to be made up of friends rather than of singers. But they still contribute to the feeling of the music. And the total effect is a joyous one. Van Morrison finds the right balance of the music and envelops the listener.

Van Morrison seems to be at the peak of his career. He has recorded an album which is not only excellent but should also be very popular. More importantly, he is enjoying his work.

By Jay Pollack

Joan Baez - Brown-Eyed Girl - It makes you want to get up and dance to it while it comes on the car radio. And the whole new album is like that, it reaches out for you. You can see by the pictures on the jacket what size people the musicians are. And Van himself is smiling! If you check any man's old ones with his old group, you can't find a smile anywhere. But this record is covered with the happy faces of his friends and accompanists and Van Morrison as he sings to you.

He's no stranger, yet he manages to make it seem as if he wants to and get across every bit of feeling that each song carries. The backup is better than ever. Never too strong and always lively enough without being showy. No one in the band is especially brilliant and the street choir seems to be made up of friends rather than of singers. But they still contribute to the feeling of the music. And the total effect is a joyous one. Van Morrison finds the right balance of the music and envelops the listener.

Van Morrison seems to be at the peak of his career. He has recorded an album which is not only excellent but should also be very popular. More importantly, he is enjoying his work.

By Jay Pollack

Joan Baez - Brown-Eyed Girl - It makes you want to get up and dance to it while it comes on the car radio. And the whole new album is like that, it reaches out for you. You can see by the pictures on the jacket what size people the musicians are. And Van himself is smiling! If you check any man's old ones with his old group, you can't find a smile anywhere. But this record is covered with the happy faces of his friends and accompanists and Van Morrison as he sings to you.

He's no stranger, yet he manages to make it seem as if he wants to and get across every bit of feeling that each song carries. The backup is better than ever. Never too strong and always lively enough without being showy. No one in the band is especially brilliant and the street choir seems to be made up of friends rather than of singers. But they still contribute to the feeling of the music. And the total effect is a joyous one. Van Morrison finds the right balance of the music and envelops the listener.

Van Morrison seems to be at the peak of his career. He has recorded an album which is not only excellent but should also be very popular. More importantly, he is enjoying his work.
Letters to The Tech

(Continued from page 4)

I political and community action, subsidizes many activities such extensions or incompletes. MIT get some things out of the way or participation in a Gilbert and exam at any time during a two or present himself for a sealed a student could hand in a paper would take the curse off grades:

grades should be due two days manually, there is no reason why thought, then write to the Com-

pot, conversation pieces of some boards, chairs around a coffee-

sessed-in corridors, individual tutor-

would lead to bureaucratization and higher costs. Let students consider their situation as a thing, but let them have a science that gives the cost to the student is less exor-

Learnig process

Perhaps students would be less interested in not least be successful with unhappiness if they were giving more opportuni-

ties to become aware of the nature of the learning process. There are many ways of doing that, most of them informal. I get this some students get this as a by-product of language study, for the process is slowed down and becomes more observable. As I told you earlier, I said, the learning of each subject proceeds in different stages - Romance, Precision, Generalization. In the short time it is possible to learn a new language, Precision is stressed and Generalization has to be left for later. Usually it happens imper-

A costly multiplicity of courses: Romance courses, Pre-

course to try self-evaluations for their teachers. What can we do if they were offered? What can

Another point brought up by a Hum courses: Romance courses, Pre-

ies - would not be the answer. No student could take them all anyway, and even the pen-

devise a course in science for the cons-

eral interdisciplinary courses, glas-

be left for. Finally it happens imper-

and different approaches to courses built around specific

sinction courses, Integration cour-

alumnus or minor requirements through other support; let it supplement

school, the chemist L.K.

the chemist which was taught in part

self-evaluations for their teachers to create an atmosphere that, most of them informal. I write to the Com-

If you are curious about the topics above are invited to

students to have come here with enough to do the prob-

students to be discouraged by poorly attended

in curriculum and course plan-

by what, in my teens and two years in my

A costly multiplication of

the various cultures that make up this country. They need prac-

ematics. If you

even so, it would lead to bureaucratization and higher costs. Let students consider their situation as a thing, but let them have a science that gives the cost to the student is less exor-

Learnig process

Perhaps students would be less interested in not least be successful with unhappiness if they were giving more opportuni-

ties to become aware of the nature of the learning process. There are many ways of doing that, most of them informal. I get this some students get this as a by-product of language study, for the process is slowed down and becomes more observable. As I told you earlier, I said, the learning of each subject proceeds in different stages - Romance, Precision, Generalization. In the short time it is possible to learn a new language, Precision is stressed and Generalization has to be left for later. Usually it happens imper-

A costly multiplicity of courses: Romance courses, Pre-

course to try self-evaluations for their teachers. What can we do if they were offered? What can

Another point brought up by a Hum courses: Romance courses, Pre-

ies - would not be the answer. No student could take them all anyway, and even the pen-

devise a course in science for the cons-

eral interdisciplinary courses, glas-

be left for. Finally it happens imper-

and different approaches to courses built around specific

sinction courses, Integration cour-

alumnus or minor requirements through other support; let it supplement

students to have come here with enough to do the prob-

students to be discouraged by poorly attended

in curriculum and course plan-

by what, in my teens and two years in my

A costly multiplication of

the various cultures that make up this country. They need prac-

ematics. If you

WANTED

Original Material for a new potential is to give a sealed exam for a mature student. Perhaps a more flexible schedule would take the curse off and now locked behind language bar-

students who barely know English. What kind of education
could the shallow, spreading of the knowledge, the student who is not at home with English. Many of those leave MIT with their English unim-

proved after having suffered agonies for fear of not meeting requirements in other European languages or sitting in unintellig-

HUMANITIES builders

Our foreign students have achieved a certain level of sophisti-

language and culture. Couldn’t they try them out. If they could, he could get a let accomplished,

GREEK FOOD AT ITS BEST

The Parthenon Restaurant

New authentic Greek restaurant.

varieties of liquors.

924 Mass. Ave. in Cambridge

491-9532

INTERACTIVE LECTURES

COSMOLOGY

by Prof. Philip Morrison, MIT

IMPLICATIONS OF THE APOLLO 11 LUNAR MATERIAL

by Dr. John A. Wood, Smithsonian Observatory

SYMBIOTIC THEORY OF THE ORIGIN OF HIGHER CELLS

by Prof. Lyman Margulis, Stony Brook University

EXPERIMENTS ON THE ORIGIN OF LIFE

by Prof. Carl Woese, University of Illinois

LEAF INSECTS, BIRDS, AND HUMAN COLOR VISION

by Prof. Jerome Lettvin, MIT

Students who are curious about the topics above are invited to

interact with students who are interested in the subject. They will be given a sealed exam for a mature student. Perhaps a more flexible schedule would take the curse off and now locked behind language bar-

students who barely know English. What kind of education
could the shallow, spreading of the knowledge, the student who is not at home with English. Many of those leave MIT with their English unim-

proved after having suffered agonies for fear of not meeting requirements in other European languages or sitting in unintellig-

HUMANITIES builders

Our foreign students have achieved a certain level of sophisti-

language and culture. Couldn’t they try them out. If they could, he could get a let accomplished,

GREEK FOOD AT ITS BEST

The Parthenon Restaurant

New authentic Greek restaurant.

varieties of liquors.

924 Mass. Ave. in Cambridge

491-9532

INTERACTIVE LECTURES

COSMOLOGY

by Prof. Philip Morrison, MIT

IMPLICATIONS OF THE APOLLO 11 LUNAR MATERIAL

by Dr. John A. Wood, Smithsonian Observatory

SYMBIOTIC THEORY OF THE ORIGIN OF HIGHER CELLS

by Prof. Lyman Margulis, Stony Brook University

EXPERIMENTS ON THE ORIGIN OF LIFE

by Prof. Carl Woese, University of Illinois

LEAF INSECTS, BIRDS, AND HUMAN COLOR VISION

by Prof. Jerome Lettvin, MIT

Students who are curious about the topics above are invited to

interact with students who are interested in the subject. They will be given a sealed exam for a mature student. Perhaps a more flexible schedule would take the curse off and now locked behind language bar-

students who barely know English. What kind of education
could the shallow, spreading of the knowledge, the student who is not at home with English. Many of those leave MIT with their English unim-

proved after having suffered agonies for fear of not meeting requirements in other European languages or sitting in unintellig-

HUMANITIES builders

Our foreign students have achieved a certain level of sophisti-

language and culture. Couldn’t they try them out. If they could, he could get a let accomplished,

GREEK FOOD AT ITS BEST

The Parthenon Restaurant

New authentic Greek restaurant.

varieties of liquors.

924 Mass. Ave. in Cambridge

491-9532

INTERACTIVE LECTURES

COSMOLOGY

by Prof. Philip Morrison, MIT

IMPLICATIONS OF THE APOLLO 11 LUNAR MATERIAL

by Dr. John A. Wood, Smithsonian Observatory

SYMBIOTIC THEORY OF THE ORIGIN OF HIGHER CELLS

by Prof. Lyman Margulis, Stony Brook University

EXPERIMENTS ON THE ORIGIN OF LIFE

by Prof. Carl Woese, University of Illinois

LEAF INSECTS, BIRDS, AND HUMAN COLOR VISION

by Prof. Jerome Lettvin, MIT

Students who are curious about the topics above are invited to

interact with students who are interested in the subject. They will be given a sealed exam for a mature student. Perhaps a more flexible schedule would take the curse off and now locked behind language bar-

students who barely know English. What kind of education
could the shallow, spreading of the knowledge, the student who is not at home with English. Many of those leave MIT with their English unim-

proved after having suffered agonies for fear of not meeting requirements in other European languages or sitting in unintellig-

HUMANITIES builders

Our foreign students have achieved a certain level of sophisti-

language and culture. Couldn’t they try them out. If they could, he could get a let accomplished,

GREEK FOOD AT ITS BEST

The Parthenon Restaurant

New authentic Greek restaurant.

varieties of liquors.

924 Mass. Ave. in Cambridge

491-9532

INTERACTIVE LECTURES

COSMOLOGY

by Prof. Philip Morrison, MIT

IMPLICATIONS OF THE APOLLO 11 LUNAR MATERIAL

by Dr. John A. Wood, Smithsonian Observatory

SYMBIOTIC THEORY OF THE ORIGIN OF HIGHER CELLS

by Prof. Lyman Margulis, Stony Brook University

EXPERIMENTS ON THE ORIGIN OF LIFE

by Prof. Carl Woese, University of Illinois

LEAF INSECTS, BIRDS, AND HUMAN COLOR VISION

by Prof. Jerome Lettvin, MIT

Students who are curious about the topics above are invited to

interact with students who are interested in the subject. They will be given a sealed exam for a mature student. Perhaps a more flexible schedule would take the curse off and now locked behind language bar-

students who barely know English. What kind of education
could the shallow, spreading of the knowledge, the student who is not at home with English. Many of those leave MIT with their English unim-

proved after having suffered agonies for fear of not meeting requirements in other European languages or sitting in unintellig-

HUMANITIES builders

Our foreign students have achieved a certain level of sophisti-

language and culture. Couldn’t they try them out. If they could, he could get a let accomplished,
William A. Arrowsmith, a classical scholar and advocate of university reform, has joined the Massachusetts Institute of Technology as visiting professor in the Department of Humanities and consultant to the Commission on MIT Education.

Professor Arrowsmith will teach an introductory language course in Sophocles, Euripides, and Aristophanes. He has translated Euripides' Andromache and Antigone, and is editor of "The Complete Greek Comedies" (Michigan) and coeditor with Roger Shattuck of "The Craft and Context of Translation" (Texas and Anchor).

Professor Arrowsmith has written on the reforms of the university and the university curriculum, recognizing that research be supplemented by an increased emphasis on teaching, and by the creation of "universities of the public interest" that would understate social and cultural problems not adequately handled by other institutions.

From 1958 to 1970, Professor Arrowsmith was at the University of Texas. He has had such an experience has not found it satisfying. Feed-back indicates that most freshmen "are looking for a friend."

Such an adult relationship, especially with a faculty member, Buttner feels, helps to give a student a firmer sense of identity. Students need to feel that someone is interested in them, and a faculty advisor who "cares" about them gives them a greater sense of security.

He also argues that there is an especially strong barrier to the formation of the first relationship. It is much harder to get the student involved with a faculty member for the first time. However, he believes that after an initial relationship is established, it will be significantly easier for a student to form additional relationships on their own. The advisory system, then, must aid and encourage students in the formation of this difficult first adult encounter. It must help the student gain a foothold at MIT from which he can work, and take advantage of what MIT offers.

New direction

The freshman advisory system is moving away from being an advisory system in the usual sense of the word. Instead, Peter Buttner has put emphasis on helping students make friends at the Institute. The more usual roles of academic counselor, course and information source have been given secondary importance. It follows from Buttner's argument about the successive ease of forming additional relationships after the first that once a student has achieved a strong relationship with his "advisor" and thereby gained confidence in his ability to deal with adults the traditional functions of advisors will be readily handled, since a student will hopefully find it much easier to seek out advice and information from other sources.

To gain confidence

The greatest merit in Buttner's ideas may well lie in his assumption that once a student has formed his first "adult" relationship, it becomes successively easier for him to form new ones. The advisory system seems to be working toward the aim of not giving students direct counseling and advice, but confidence in themselves and their ability to deal with adults. This is an important ability, which is never really encouraged in schools.

Most schools encourage students to be subservient to adults and fearful of them. The role of teacher as judge discourages the student from seeking out his teachers as friends. MIT students are not exempt from this alienation from the adult world. However, alienation is not a well-adjusted condition, and it is imperative that the Institute do what it can to free its students from this sort of alienation from people.

An Engineer who can make it with RCA will be part of an amazing future.

When you measure achievement, no industry can surpass either the past record or future potential of electronics.

When you're part of a company that is as diverse in all areas of technology as RCA, you are in for an exhilarating ride to the top of your profession.

We develop new technologies—new products—using the total systems concept. We are heavily involved in all areas of computer engineering—both hardware and software. In fact we are a total communications company. This includes defense and commercial electronic systems, electronic components, and a proliferation of the most advanced kind.

But these are only the major areas that concern our engineers and scientists today.

Tomorrow is coming up awfully fast. You can start your career in one of our Rotational Programs to give you a wide overview of our activities, or, if you prefer, direct assignment to one of our numerous technical areas.

Electronic or mechanical engineers and Computer Science Majors should take the first step by contacting your College Placement Director, or write directly to RCA College Relations, Dept. F, Cherry Hill, Camden, New Jersey 08101. We are an equal opportunity employer.

On Campus Interviews

February 24, 25, 1971
Basketball tops Lowell Tech

The Tech hoosiers won their fifth and sixth straight home games last week as they took states on Monday, 88-61 and Lowell Tech on Saturday, 85-77. Star forward Harold Brown '72 scored 29 points and pulled down 10 rebounds to spark the Lowell Tech victory. Center Bill Godfrey '72 had 15 points and Captain Bruce Wheller '71 had 14. Jerry Hudson '73 had 13 rebounds and 10 points.

Now at the halfway mark of his second season, Brown has 514 points from last year (206.8 wp.) and 249 in 11 games this year (114.0 wp. avg. 22.9). This total of 763 points puts him more than halfway to Dave Fassius' MIT career record of 1457.

The scoring was pretty much even for the first half, but again the Techmen came out strong, as they have many times, to out-score Lowell Tech 18-6 in the beginning of the second half, to sew up the victory.

Though 6-0 at home, the engineers are 0-5 on the road. On February 1 and 2, they travel to New York to face N.Y. Maritime and Queens College to try to improve on that record.

MIT SCORING

Player... G... F... P

Wheelier... 5... 4... 14

Joe... 3... 1... 7

Hudson... 5... 10

Brown... 12... 5... 29

Godfrey... 6... 3... 15

Johnson... 3... 2... 8

Shields... 0... 2... 2

Team: 34-68 17-29 85

Skaters sink Lafayette

The varsity hockey team moved its record to 3-1-3 this weekend by topping Lafayette at home on Friday night and dropping to St. Anselms in Manchester, N.H. on Saturday night.

On Friday, the pucksters dominated most of the play in a 4-3 score, Lafayette started things off well in the first period with a quick goal at 1:48 of the first period. The Techmen came back, though, with left wing Rob Hunter '73 taking a fine centering pass from center Andy Jarrell '71 at 10:04 and high scorer Bill Barber '71 putting in a pass from Tom Lydon '71, with one player on each team off. That goal in a four-on-four situation came at the 15 minute mark. With 46 seconds to go in the period, though, Lafayette tied the score at 2 all.

All of the rest of the action centered around the penalty laden second period. The Techmen converted on two power plays with Jarrell scoring once unassisted at 8:48 and then on a pass from Bill Stensrud '71 at 9:51. Even with the visitors scoring at the 11:11 mark, the skaters held on for a 4-3 win.

Skaters sink Lafayette

Center Bill Barber (7) sets to race off in Friday's game against Lafayette. Right wing Marc Weinberg (4) awaits the draw. The Techmen won that one, 4-3.

Students Can Rent Chevrolets

John H. Davey, Manager

The Minicost Way

Cambridge

Boston

Central Sq. (Park Sq.)

254-1160

No Lower Rates in Mass.

1/4" Extension Kit

Available at

Chevrolet Dealers

New York Area or Nationwide Call or Write: 212-947-3212 or 563-0755

500 Fifth Avenue, N.Y., N.Y. 10036

ASSOCIATED STUDENTS AGENCY

TEACHERS

Public or Private Schools Certified or Uncertified

New York Area or Nationwide

Call or Write: 212-947-3212 or 563-0755

500 Fifth Avenue, N.Y., N.Y. 10036

ASSOCIATED TEACHERS AGENCY

Photo by Sheldon Lowenthal

The Daily Reamer.

Watch for it on

Registration Day

$179

March 26 - April 2

Round-trip jet from Boston

First-class hotel accommodations

Call Students International


*Open only to MIT students, faculty, staff, and immediate family

The Waldorf-Astoria

Announces the College Weekend Bash

Feb. 12-15

$55.00

Includes:

Round-trip transportation from Boston

Accommodation

Mixer with Rock Band and free BEER

Tickets to Tonight Show or similar

Bloody Mary and Champagne Brunch at Oscar's

Many options

Call College Weekends at 617-893-4413

The Waldford-Astoria

Announces the College Weekend Bash

Feb. 12-15

$55.00

Includes:

Round-trip transportation from Boston

Accommodation

Mixer with Rock Band and free BEER

Tickets to Tonight Show or similar

Bloody Mary and Champagne Brunch at Oscar's

Many options

Call College Weekends at 617-893-4413

The Daily Reamer.

Watch for it on

Registration Day

$179

March 26 - April 2

Round-trip jet from Boston

First-class hotel accommodations

Call Students International


*Open only to MIT students, faculty, staff, and immediate family

Air CONDITIONED

25 CHURCH STREET

HARVARD SQ., CAMBRIDGE

TEL. 864-3018

PERRY V. KONG, MGR.

The Waldorf-Astoria

Announces the College Weekend Bash

Feb. 12-15

$55.00

Includes:

Round-trip transportation from Boston

Accommodation

Mixer with Rock Band and free BEER

Tickets to Tonight Show or similar

Bloody Mary and Champagne Brunch at Oscar's

Many options

Call College Weekends at 617-893-4413

The Daily Reamer.

Watch for it on

Registration Day

$179

March 26 - April 2

Round-trip jet from Boston

First-class hotel accommodations

Call Students International


*Open only to MIT students, faculty, staff, and immediate family

Air CONDITIONED

25 CHURCH STREET

HARVARD SQ., CAMBRIDGE

TEL. 864-3018

PERRY V. KONG, MGR.

Photo by Sheldon Lowenthal