

14 astronauts visit MIT



Astronauts at Thursday's press conference are, left to right: Neil Armstrong, James McDivitt, Russell L. Schweickart, Alan Sheppard, Edward White II, Thomas Stafford, Charles Conrad Jr., and Frank Borman.

By **BILL JUDNIOK**

Fourteen of the sixteen National Aeronautics and Space Administration astronauts, with several other officials of the Manned Spacecraft Center in Houston, Texas, spent last Thursday and Friday at MIT's Instrumentation Laboratory.

Purpose of the visit was to familiarize the group with the design and operation of the guidance and navigation system that will be used aboard NASA's Project Apollo spacecraft—the vehicle that will take three men to the moon and back. Commander Charles Conrad, one of the visitors has made arrangements for the group to examine all systems that will comprise the Apollo craft — both manual and automatic.

300 Work on Design

The guidance and navigation system is being designed at the Laboratory by a team of over 300 engineers and scientists from MIT and three participating contractor firms: The AC Spark Plug Division of General Motors Corporation, the Raytheon Company, and Kollsman Instrument Corporation.

Astronauts included in the visiting group were M. Scott Carpenter, L. Gordon Cooper, John H. Glenn, Virgil I. Grissom, Alan B. Sheppard, Walter M. Schirra, Neil A. Armstrong, Frank Borman, Charles Conrad, James A. Lovell, James A. McDivitt, El-

More photos of conference on Page 6

liott M. See, Thomas E. Stafford and Edward H. White.

Schwickart in Group

Russell L. Schwickart, a full-time engineer at MIT's Experimental Astronomy Laboratory, and one of the 14 new astronauts recently selected by NASA, was also in the group. Two NASA officials, Chris Kraft, chief of the

(Please turn to page 6)

In five to six years

Library report forecasts critical space problems

by **Henry Lichstein**

MIT's libraries will face serious space problems within five or six years. According to a report to the Academic Council, the situation could become critical.

Submitted over ten months ago, the report considers the growth of branch libraries, the use of libraries for studying, the expansion of the library, and the automation of library operations.

Saying "we stirred up the Administration," Prof. Thomas Sherwood, Committee chairman, commented, that at the time of the report, "The Administration hadn't studied the situation to determine how quickly it would develop into a real crisis."

Stressing that the present services are entirely adequate, Sherwood added the "situation is critical if you look ahead at all."

Sherwood feels that the libraries, while faced with expanding requirements, have maintained a "reasonable compromise between funds and needs."

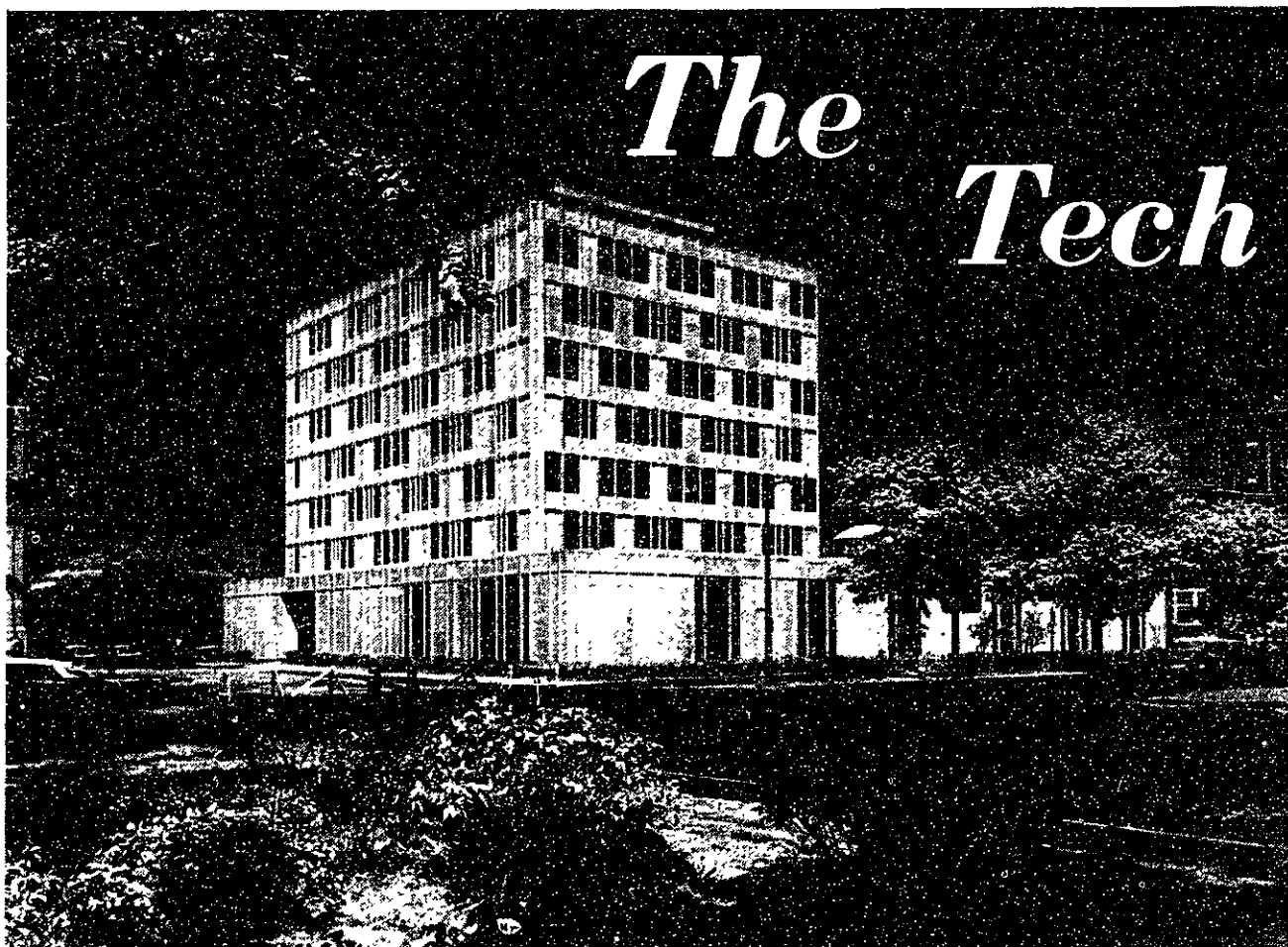
Commenting on branch libraries, he said "while people want books near them, the problem of branch libraries can get out of control."

A major proposal of the report concerned consolidation of the science and engineering libraries. While it is impossible to contract the present branch system, according to the report, the increasing interdependence of science and engineering indicates that the Science and Engineering Libraries should be consolidated.

In the report, the committee recommended that either a new building be erected on Ames St. to accommodate both Science and Engineering or that the Engineering Library be expanded downward into Bldg. 10.

According to Prof. Sherwood, "President Stratton looked favorably on the Bldg. 10 idea."

Another recommendation was that the Director of Libraries be given "a more potent title."



The Tech

Dr. Killian asks educational, scientific reforms; cites shortage of research funds and manpower



James R. Killian

Major educational and scientific reforms to keep pace with an accumulating knowledge were requested by Dr. James R. Killian, Jr., chairman of the corporation. Dr. Killian made his plea last night in a speech following the reception of the award of the Greenville Chapter, Society for Advancement of Management, at the Awards Dinner at the Poinsett Hotel in Greenville, South Carolina.

He complained that the proportion of effort and dollars going into basic research is too low, and he noted a tendency for "Big Science" to flourish at the expense of "Little Science." Dr. Killian observed that "the skill with which the Federal Government... deals with its responsibilities with respect to science and technology can profoundly affect not only the future strength of scientific and engineering professions in America, but also other domains of learning."

Dr. Killian pointed to a manpower shortage in the teaching field, citing the fact that in "1954-58 the net increase in faculty

members was 98,000 while the total number of Ph.D.'s awarded was 38,000, many of whom did not go into teaching." He noted that the schools and colleges of the United States have a steadily growing obligation to offer educational opportunities to those who have already entered careers, and he suggested that many more universities adapt a tripartite program of undergraduate, graduate, and postgraduate schools.

"Reform and refresh the obsolete curricula of our schools," Dr. Killian demanded, citing the Physical Sciences Study Committee program as an encouraging and inspiring development to that end. He added that universities must "maintain their integrity as educational institutions at a time when they and our society more and more penetrate each other."

In conclusion, Dr. Killian observed that we must adapt to the current change, that we develop and apply our talents well, that we not permit "short-term exigencies (to) upset programs of long-time value," that we support efforts to "upgrade, enrich, and refresh" subject matter in our schools, and that we take advantage of the growing economic value of advanced knowledge.

Planned graduate dorms to house 600

Extensive renovation of Graduate House and new dormitories providing living space for 600 or more men are among the long-range plans of the Institute toward a Graduate Center.

Harry Weese and Associates, a Chicago architectural firm, has been assisting the needs of MIT in the area of graduate student life. Preliminary designs and cost estimates for various stages of the project are expected before next January.

Vol. 83, No. 21 Cambridge, Massachusetts, Wednesday, October 30, 1963 Five Cents

Cost: \$60 million

Apollo LEM guidance system to be developed

The National Aeronautics and Space Administration has chosen the Instrumentation Laboratory of MIT to direct overall development of the guidance and navigation system for the Lunar Excursion Module of the Apollo spacecraft.

A complex phase of the Apollo project to land three astronauts on the moon consists of developing a Lunar Excursion Module, or landing vehicle, which can be released from an orbiting lunar spacecraft.

Collaborating with MIT's Instrumentation Lab will be the Sperry Gyroscope Co., the Kollsman Instrument Corp., the Raytheon Co., and the AC Spark Plug Division of General Motors. These

contractors are responsible for developing the inertial measuring unit, the scanning telescope, map, and visual display unit, the onboard computer, and the pulse integrating pendulum accelerometer.

The other main phase of the Apollo program consists of the development of the guidance and navigation system of the spacecraft that will go to the moon and back. This is known as the command and service module system. MIT's Instrumentation Lab has already been given primary responsibility for this system.

Of particular interest is the technical approach to be followed in the LEM system and the com-

mand and service module system. As many components and subsystems as possible will be directly interchangeable between the two systems. This approach will improve overall reliability and allow the astronauts to fly with one type of system as opposed to a different system for each module.

23 young Russians visit Tech, Harvard in late November

Twenty-three young Russian professional men and women are scheduled to visit MIT and Harvard during the week of November 24 to 30. The group includes journalists, engineers, physicians and teachers.

The visit of the Russians is being sponsored as an experiment in international relations. A main objective is to show the young professionals what American universities are like.

The group will tour MIT November 25 and 26. While here they will visit the departments of individual interest.

About a third of the Russian visitors will be women. All will be staying with individual host families in the area.

plans include as a final goal new housing for 1200 male graduate students with adjacent dining and living rooms. The dining facilities at Graduate House may be decreased in scale in consideration of the large public cafeteria that will be functioning in the nearby Student Center.

Professor Francis Bitter, House Master of the Graduate House, and his wife are the faculty representatives to the architects.

Tech image widely noted



MIT is apparently becoming a popular image for the successful intellectual, as references gleaned from the mass media show. 'Harvey and Sheila,' a cut from Allen Sherman's album, 'My Son, the Celebrity,' (Warner Bros.), is a satirical melange of initials. Harvey is a genius, a VIP and CPA, but this is only natural, as he graduated from MIT. Sehe magazine ran a full-page ad for "Prophecy" perfume. A feminine hand was depicted covered with class rings. Right in the middle of the picture was the familiar MIT Bea-

ver. We are indebted to Technology Review for this bit of detective work.

The Review also states, "A short story in a woman's magazine recently described a Sir Galahad, and it turned out he was an MIT student. Women who have married MIT men will not find this surprising, of course, but it may be interesting to some of The Review's readers."

Finally, we offer you the following cartoon by Guernsey Le Pelley which is reprinted by permission of The Christian Science Monitor.

EC expansion plans to provide space for 40-80 students

Expansion plans for East Campus presently call for a new building to connect the north ends of the two present parallels and provide room for 40 to 80 additional students, it was brought out in a meeting between Frederick G. Fasset, Dean of Residence, and the editors of the East Campus "Intruder."

Present intentions are to retain the system of single rooms, and perhaps utilize the additional space in part by providing each resident with a kitchenette. Plans for remodeling are not yet definite, Dean Fasset noted, and await both a survey of present student opinion and a report by Professor Marvin Goody of the Architecture Department.

Dean Fasset said that when the expansion is carried out, the dormitory will go on the housemaster-tutor system. Administrative factor of this plan was, he stated, in a large part due to the satisfactory results achieved in other houses having the system.

Student Center construction 'making progress,' says Catalano

The Student Center is making "good progress" according to Prof. Eduardo Catalano of the Architecture Department, architect for the Center.

While the present plans call for completion in June, 1965, Prof. Catalano is "Very optimistic" about possibilities of an early completion. He stressed that it is up to the contractor, however.

According to Catalano, "The foundations are the most unpredictable." So far, work has con-

tinued on schedule, but the rain and snow of the next two months may cause significant delay.

In conjunction with construction work, students are being briefed on latest developments.

A meeting of student activity leaders will be held Saturday in Endicott House to discuss the allotment of facilities in the Student Center activities.

The Center will be more than 150,000 square feet in size, will cost more than 4.5 million, and will be according to a faculty committee report, "a focal point for undergraduate activities outside of the classroom, dormitory, and the fraternity".

Space in the center will be occupied by many activities now scattered throughout the Institute. It will also provide music practice rooms, several dining facilities, and space for individuals and unorganized groups to engage in activities.

Student fund drive raises over \$670

\$670.60 had been collected for the Undergraduate Fund Drive by Monday evening, according to drive co-chairman John Klensin '66.

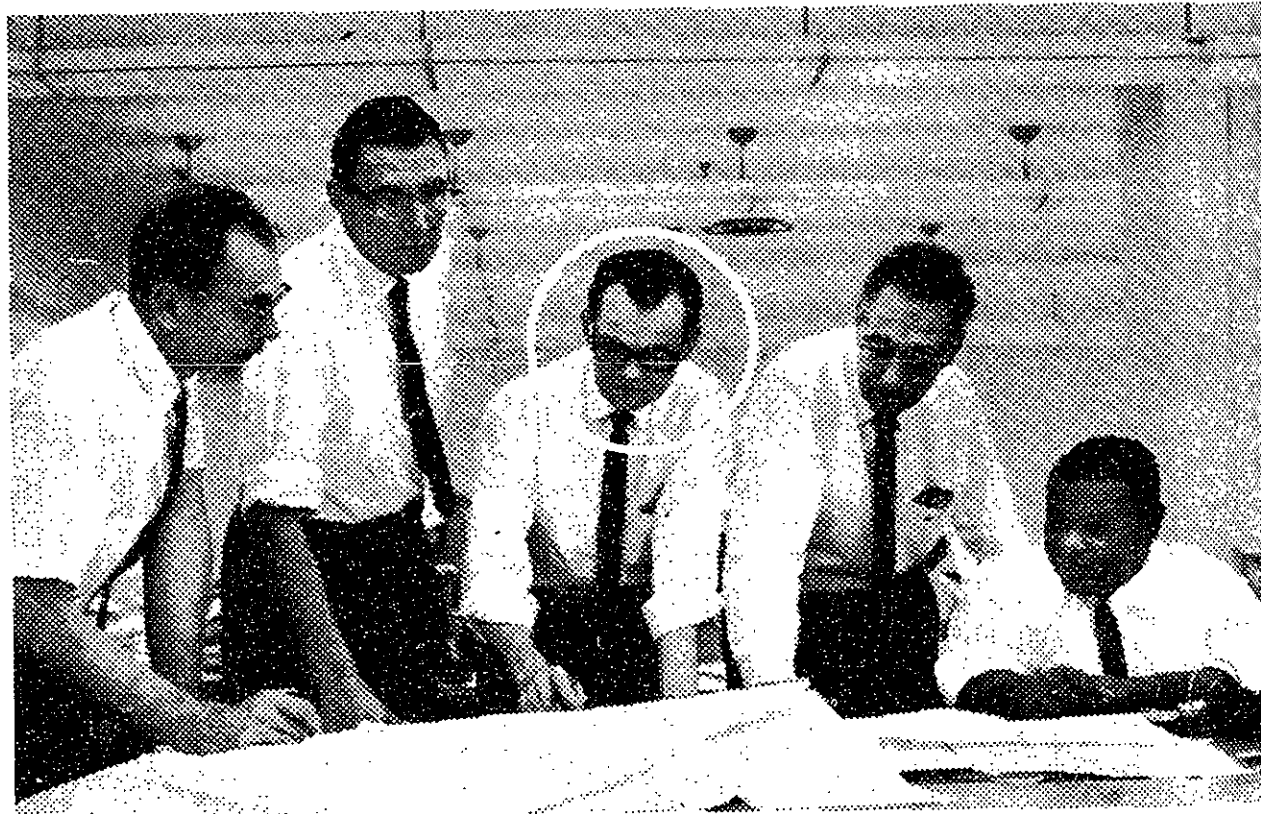
This represents only part of the total received since contributions from parts of Burton, Baker, East Campus, McCormick and twenty-one fraternities had not been counted.

Final results are expected to be available today or tomorrow. The UFD is jointly sponsored by the Technology Community Association and Alpha Phi Omega.

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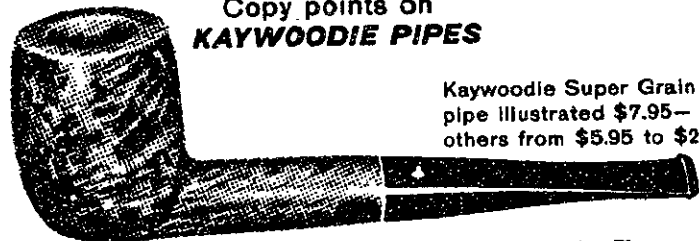
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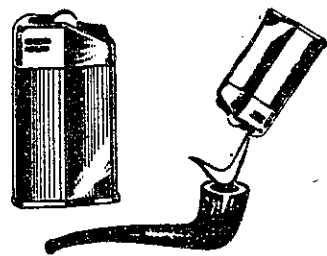
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Field Day has long tradition; replaced Cane Rush

The sixty-first annual Field Day will take place November 9, at 10 pm on Briggs Field. Field Day originated in 1901 as a replacement for Cane Rush, in which the Freshmen were given the cane and were supposed to defend it from the Sophomores. After fifteen minutes a pistol was fired as a signal to end hostilities. The winning class was the one whose members had the most hands on the cane.

Fatality in 1900
At the last Cane Rush in 1900, an unfortunate incident occurred in which Hugh Chadwick Moore '04, was fatally injured, and Harold W. Sherill, '04, was carried from the field with a hemorrhage of both eyes and a heart injury. In the years following World

War I, Field Day lasted for two days, beginning with the famous Tech night opening hostilities, in which a small fight would usually begin in a local theater and spread throughout the streets of Boston or Cambridge. Trouble with local authorities caused the discontinuance of this practice.

From 1923 to 1926, the Sophomore Banquet replaced Tech night. The primary aim of the Freshmen class was to disrupt the proceedings of the banquet as completely as possible. They were most successful in 1926, as that year's Sophomore banquet became known as the Tech Riot. Following the Tech Riot, the

Glove Fight was created as a replacement for such activities and has since become Field Day's major event. In the period from 1926 to 1934, the classes gave vent to their enthusiasm by throwing various kinds of refuse at detractors. Unfortunately, the thrower's aim was usually rather poor and this

practice was abruptly discontinued by the Institute. In another year during the tug-of-war, one class added an extension to its end of the rope, and tied this extension to a nearby telephone pole. The judges evidently did not notice this, and as a result, the team with brains as well as brawn, pulled their staggering opponents across the line.

Field Day, 1955, added a new style to the traditional Glove Fight. The Sophomores stationed two men on top of the football goal posts; one with a bag containing all of the Sophomores' gloves and the other with a bag of dirty underwear. The bags were chained to the men, both of whom were chained to the posts which had been previously greased. The Freshmen were defeated.

Pre-Field Day activities
Pre-Field Day activities have often been filled with hacks. In 1956, the Sophomores held a traditional Mug Lift. That beer which was not consumed by the Sophomores was used to soak captured Freshmen. These activities continued until the Freshmen retaliated with their secret weapon . . . a skunk!

Prior to 1957, in addition to the traditional Glove Fight and tug-of-war, Field Day featured athletic events such as tackle football, crew races, and swimming meets. In 1957, the Athletic Association discontinued Field Day because it felt that Field Day activities were injurious to varsity athletics.

The following year, Field Day was reinstated under the direction of the Junior Class Honorary Society, Beaver Key. In its present form, it is a series of events designed to test the class' ingenuity, organization and participation.

The major events of the present Field Day program are gadget races such as boat races on the Charles, totem pole races, and bed races. Mystery events have also been added to the now traditional Glove Fight and tug-of-war.

Disclosed at meeting

Five events slated for Field Day 1963

Field Day, 1963 will consist of five events. Description and explanation of the rules governing these contests was discussed at a meeting last Friday between Freshman and Sophomore Class Presidents, Dick Chandler '67 and Tom Jones '66, and Frank Yin '65, President of Beaver Key. Sponsored by Beaver Key, the annual event will take place at 10 a.m., November 9 on Briggs Field.

The five events are: the Coed-in-Litter Race, the Tug-of-War, the Glove Fight and two mystery events.

For the Coed-in-Litter Race, Beaver Key has specified that a litter must be of a particular size and construction. It must be "lavishly decorated" according to the rules, and "equipped with a device for projecting water at the other class litter." It must have a horn located such that it

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can be operated by the coed within.

The litter must be carried by at least twelve men, and it must never touch the ground once the contest has started. Each class must provide four crews, to race the litter over a 400 yards distance. The horn on each litter must be sounded at intervals of at most five seconds. Also, rules specify that the coed must carry one dozen eggs onto the litter.

There will be two tugs-of-war: the General Unlimited and the Coed Limited. The General Unlimited is open to any number of participants. The Coed contest will pit equally weighted groups of coeds. Maximum weight per team is 1500 pounds. Only bare feet or tennis shoes will be permitted, and the rope shall not be knotted or looped around any part of the body. In the General Unlimited competition, the center of the rope shall be located over a mud bath, and that team which pulls the center of the rope ten yards shall be the winner. In the Coed Limited, the rope shall be pulled five yards.

Glove fight competition will be confined to a field 100 yards by

50 yards. Each participant must remain on the field unless his glove has been secured by the opposition or he is expelled from the fight. Each participant will wear one glove of his team color, and the glove shall not in any way be attached to any part of his body. Captured gloves will be placed in the barrel of the capturing team, and only such capturers will enter the defined barrel area. After fifteen minutes of competition, the team with the greatest weight of captured gloves will be declared winner of the event.

For the fifteen point mystery event, each class must procure a bath tub, mount it on wheels, and move it to the field shortly before 10 am. Field Day. For the other, each class must have a "pre-determined squad of one hundred or more persons" ready to participate at any time during Field Day.

The winning class shall be presented the winner's trophy by an official representative of MIT. Losers must clean Briggs Field immediately following Field Day.

Questions concerning Field Day should be directed to Frank Yin or Ralph Cicerone, Beaver Key Field Day Chairman at 416 Beacon Street, telephone CI 7-8275.

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Tuition

\$50 and \$100 tuition increases are just bits and pieces and not worth the effort said one influential administration official last week. He was explaining MIT's new policy of less frequent, but possibly larger, tuition raises.

Last March's announcement that the current \$1700 tuition will remain in effect at least through the 1964-65 academic year broke a decade-long pattern of bi-annual \$200 tuition raises. But it has led many students to speculate that the new pattern will be a tri-annual raise of \$300.

Actually, the administration will not make any further raises except for "compelling financial reasons," and have set themselves a goal of keeping the present tuition for the 1965-66 year.

However, the tuition rate decision will not be made until March, and will rest in large part on a tuition study now being directed by Vice President Kispert. Among other things, the study includes over a ream of computer output concerning the Institute's projected revenues and expenses, as well as income statistics on the families of students here.

Commenting on the study, President Stratton said that findings affecting MIT will be made public. Presumably, this release will be well in advance of the 1965-66 tuition decision. This is part of the Institute's policy of "frankness."

Countering accusations that price leadership in tuition might be a status point, administration officials quickly point out that:

1—An important measure of how efficient they are is how low they can keep tuition,

2—MIT does not wish to exclude any qualified student solely for financial reasons, and

3—The Institute does not intend to relapse into its former top-tuition position.



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Tooling Again?

Hi there, tool!

You say you're studying all night and you just took four Sleepeze by mistake? And some trick-or-treaters just 'set fire to your 8.031 problem set?

And you just got a draft notice—from Cuba?

And you just opened the centerfold of Playboy and it's your mother?

You say you were complaining about integration in 18.02 and now there are six CORE members picketing your room?

Is that what's on your mind, IBM card? Well, go out, buy those books, study all night and what'll you get—mono.

You say you're standing there talking to this cute girl and the guy behind you has B.O. and she thinks it's you?

And the MDC just towed off your car—while you and your date were still in it?

And you just finished decorating the dome with the Great Pumpkin and the guy that sold you the paint tells you it's not water-based?

Is that what's cooling your tooling, techman?

If these are your troubles, perhaps this is the best time of the year to forget them and go to JP weekend.

JP Weekend

Here are four considerations concerning the fourthcoming JP Weekend:

1—The student who can afford \$35 to bring a girl to JP can pay the \$3 subsidy provided from the pockets of other students, implied by Jerry Luebbers last week. This is borne out by the fact that techmen often spend up to \$5 extra to a scalper for a JP ticket.

2—The only benefit of a social weekend is to those who actually participate. The only reason for running a weekend is to entertain the weekend-goers. Therefore:

3—JP, as well as other social weekends, must break even financially. There is no reason for the pleasures of weekend-goers to be paid for by other classmates.

4—Any social weekend that needs extensive hard-sell publicity to attract customers shows poor organization. Publicity for the Highwaymen concert sponsored by Alpha Phi Omega, on the other hand, was of an opposite nature; yet this financially unsubsidized performance ran considerably in the black. The key is quality entertainment and quality organization.

Deficits in social weekends are not akin to government deficit spending, for which good arguments can be advanced. The social goals of government deficits cannot always be attained by individuals. But the social goals of JP can be attained by the techman's individual initiative in social affairs.

If techmen prefer to spend their money in an individual pursuit of pleasure, we see no reason why social committees should flaunt student opinion and seek handouts from student government.

No Keynesian economic stimulation exists for JP deficits. Any sensual stimulation should be paid for by those enjoying it, not out of the wallets of others.

Inside Inscomm Intercollegiate Council started last week at Simmons —by Jerry Luebbers, UAP—

Last Thursday evening, Simmons College sponsored a meeting of a number of the schools in the Greater Boston Area to discuss the potential value of our banding together in a Boston Intercollegiate Council. The coincidental fact that there were exactly as many female representatives present as male had absolutely no influence on the outcome of the discussions. The agenda left the meeting wide open and seemed to intimate that a blue-sky atmosphere would prevail. This was precisely the case.

Ideas ranged from student rates at the BSO to the exercising of political influence on Beacon Hill to the exchange of calendars, and one bright MIT representative even suggested making available picture books of incoming classes.

While few of the ideas were discussed more than superficially, MIT was politely informed that the last idea was definitely out in that deans of women's schools seem to consider it as somewhat akin to prostituting their charges.

The consensus seemed, to this observer, to indicate a belief that there was something to be gained, but there did not seem to be a clear concept of the optimal plan of attack. One faction favored immediately delegating further action to assemblages of persons

knowledgeable in potential areas of co-operation; i.e., social chairmen, newspaper editors, etc.

The other faction, with which I must confess being aligned, leaned toward further discussions of a more general nature in an effort to create a familiarity with the operations of one another that was clearly missing. In a quasi-blackmail move, we offered the services of MIT for a follow-up meeting to be held in about one month.

Personally, I do not feel that MIT would be performing only the "donor school" function in actively supporting the Boston Council concept; indeed, I feel that we have a good deal to learn about the functions of other campuses.

Ever since our resignation from the National Student Association, we have tended to lose contact with the college world, and I feel that this contact would be healthfully re-established via a discussion-oriented council.

However, I do feel that we now have a more highly refined system of student participation in school life, and that we would not profit as heavily from the "workshop" phase of the proposal. We are therefore planning our MIT sponsored meeting along these lines.

Kibitzer

By Alan Rinsky

NORTH

♠ A 4 3 2
♥ K Q 6
♦ K Q 8
♣ A 6 5

EAST

♠ 8 7 6
♥ 10 9 4 3 2
♦ 9 7 6
♣ 9 8

WEST

♠ K J 9
♥ 8 7
♦ A J 10 2
♣ K J 7 4

SOUTH

♠ Q 10 5
♥ A J 5
♦ 5 4 3
♣ Q 10 3 2

North-South vulnerable. West dealt. The bidding:

West	North	East	South
1♦	1N.T.	Pass	2N.T.
Pass	3N.T.	All Pass	

West led the Jack of Diamonds.

The end-play or the throw-in is one of the most useful tools of serious bridge players. End-plays require stripping the hand of the suits in which the opponent can make a harmless lead.

When the lead is finally given to the opponent, he can only make a lead that will give declarer an extra trick.

A count of the North and South hands indicates that the opponents

have 13 high card points, virtually all of which must be in West's hand since he bid.

Declarer must make four tricks in the combined spade and club suits in order to fulfill his contract. Since West is marked with the Kings of Spades and Clubs, it is necessary for him to lead these suits in order for South to make good his Club Queen and Spade Queen or Ten.

South won the opening lead with the Queen of Diamonds and took three rounds of hearts, ending in his hand. West discarded the Club Four. South led a diamond and West went up with his Ace and led back a low diamond which North's King won.

East following to the third round of diamonds marked West for one more diamond. South could now afford to lose two tricks in combined spades and clubs.

Declarer led a low club and played the Ten from his hand. West won with the Jack and led his remaining diamond, North discarding a spade, East a heart and South a Club.

This is what remained: West has the lead.

(Please turn to page 5)

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WHAT COULD I SAY?

10-30

Peanuts appears daily and Sunday in the Boston Herald.

Life Sciences Building

Construction on new center begun in main lot

By MICHAEL SHORENSTEIN
The ground has recently been broken for the construction of a new Life Science Center next to Building 16. As an extension to the Dorrance Laboratories, the new building will help to centralize the role of the Life Sciences at MIT.

According to Professor Patrick Wall, executive officer of Course 7, the new building will expand and improve undergraduate teaching facilities for Courses 7 and 20

and will allow greater laboratory flexibility for MIT researchers.

The new center, named Building 56, will extend Building 16 by 217 feet and will have the same height and outer glass-paneled structure. Its floor plan calls for eight levels above ground with a library on one level, a large fermentation laboratory on another, and animal laboratories on the eighth.

Access to the structure will be through Building 16, at ground level, and through a special tunnel

constructed from the Earth Science Center. A sub-basement will house air-conditioning units for service to all floors, including those of Building 16, which now lacks service.

Since much of the floor space will be devoted to laboratories, many of them will be designed to require few alterations in fitting to the needs of several different research projects. These new labs will also provide extra room for lab and classroom sections remaining in Building 16.

The new Life Science Center has been in the planning process for several years. It is being financially supported by two matching grants from the National Institute of Health and from an individual donor to the Department of Biology, Mr. U. Whitaker.

Early plans for construction under Professor Anderson, of the Department of Architecture, were bogged down over foundation difficulties. However, with excavation work now begun, Professor Wall expects the building to be finished within two years.

Cherchez la Femme

By Dave Trevvet

Like it or not we're back again this week, and first on the agenda is an apology. We said that the Marlboro House mixer would be October 25, and instead it's scheduled for November 1. The misunderstanding arose from the confusion over whether "next Friday" means Friday of the present week or that of the next week. Tickets reached TCA Monday; there may be some left, but they're going rapidly.

The Franklin Square House mixer will be held tonight at 11 E. Newton Street, Boston; 8-12 pm; tickets are needed for admission and are available from dorm and fraternity social chairmen.

Also for tonight is a "Pumpkin Swing-Along with a Sing-Along" at the Boston City Hospital School of Nursing. There'll be refresh-

ments and a door prize; 8-12 pm; \$1.99 donation.

The final addition to last week's column is a mixer next Friday (meaning the Friday of this week, viz., Nov. 1) at Simmons. It'll be an Autumn Corn Ball, featuring The Vagabonds and the Simmons Blueettes; 8-12 pm. The cost is \$1.50 and invitations should be available from dorm and fraternity social chairmen.

This is absolutely and positively the last "Cherchez la Femme" of the fall.

MITSG meeting draws 20 people

The newly-formed MIT Students for Goldwater held an organizational meeting attended by about 20 people on Sunday, October 20.

The Coordinator, Dave Nolan '65, and Treasurer, Gar Randall '66, explained the group's organization and purposes and answered questions, after which the group moved to general discussion and planning of activities.

Proposed activities include membership drives, lectures, rallies, and parties; the first definite project is a booth in Building 10, which will be in operation starting today and continuing through Friday, November 1. At the booth, promotional material will be available, and free handouts outlining the nature and purpose of the MITSG will be distributed.

The next meeting of the group will be at 2:00 pm Sunday, November 17.

Further details concerning the MITSG are available from Dave Nolan or Gar Randall at extension 3785.

Kibitzer

(Continued from Page 4)

NORTH

- ♠ A 4 3
- ♥ None
- ♦ None
- ♣ A 6

EAST

- ♠ 8 7 6
- ♥ 10
- ♦ None
- ♣ 9

WEST

- ♠ K J 9
- ♥ None
- ♦ None
- ♣ K 7

SOUTH

- ♠ Q 10 5
- ♥ None
- ♦ None
- ♣ Q 3

Declarer cannot help but take four of the remaining tricks. West led the Nine of Spades and South won with the Ten. He took the Ace of spades and lost the Third Spade to West's King. West was end played the second time and had to give up the remaining two clubs.

Had West led a club instead of a spade, South wins two clubs and lets West in with a spade for an end play.

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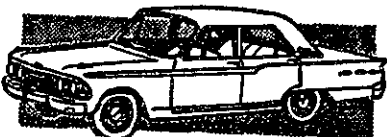
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But because only 90 couples can be accommodated for this formal Prom Buffet, reservations must be made well in advance. Reservations can be made by calling the manager, Mr. Gerbick, at 864-8194.

Located just behind Building 20 on Main Street in the ultra modern Technology Square complex, Tech Square House offers free parking at the door.

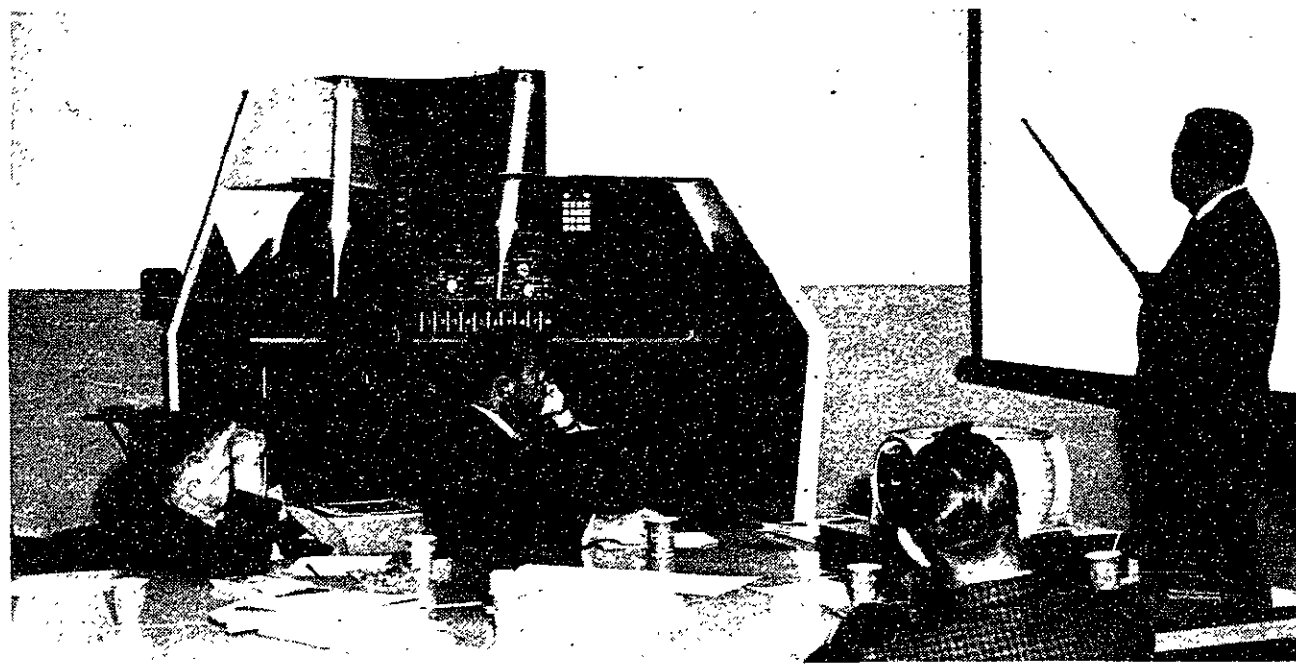
Call today while reservations can still be accepted. You (and she) will be glad you did!



(Rogers)

TECH SQUARE HOUSE

Guidance and navigation system inspected Applies own 'laws'



Astronauts are briefed on the inertial guidance unit of the Apollo spacecraft which may take them to the moon.

(Continued from Page 1)

Manned Spacecraft Flight Operations Division, and Warren North, chairman of Crew Operations at NASA in Houston, completed the group.

At a conference held at the end of the first day of the visit, James McDivitt told newsmen that the group would also have the opportunity to see a "mock-up" of the command model—but not that of the lunar vehicle, which would "come later." He stressed that the group was, to an extent, already familiar with the systems they were checking.

Group Asks Changes

When asked if the group had already proposed any changes in the guidance system as a result of their visit, Commander Shepard answered affirmatively, but termed them "minor."

Speaking for the group on the subject of recent criticism and pessimism concerning the moon

shot, Sheppard stated that the astronauts, as well as NASA, were very "disturbed" over such talk, and that each member of the group was actually aware of the project's importance. He cited propaganda value as one of the major considerations.

When asked whether the target date of 1970 for landing men on the moon was still an attainable goal, James McDivitt replied, that he considered it quite likely. The three man crew for the Apollo shot has not yet been selected, nor have the Gemini pair been selected. But Commander Shepard was "quite sure" that the group present at MIT would supply the pilots. Official selection should occur and be announced from two to three months before either of the shots.

Until then, all astronauts will be in training for each of the three Apollo jobs: pilot, co-pilot, and navigator. On the mission itself it would be of utmost im-

portance that each crew member be thoroughly familiar with each assignment in the case of an emergency.

Russell Schweickart, one of the new astronaut candidates who has not yet moved to Houston from Boston, voiced the hope that he would be one of the first on the moon.

Internationally known

Lord new Optical Society head

Dr. Richard C. Lord, Professor of Chemistry and Director of the Spectroscopy Laboratory, has been named 1964 President of the Optical Society of America.

Internationally known for his research in applying spectroscopy to problems in chemical analysis, Dr. Lord has had over 80 articles published, and was at one time editor in the field of optics for the McGraw-Hill Encyclopedia of Science and Technology.

He also collaborated with Dr. George R. Harrison, Dean of the School of Science, and the late Prof. J. R. Loofbourrow in preparing the widely-used text "Practical Spectroscopy."

Dr. Lord joined the MIT staff as deputy chief of the optics division of the National Defense Research Committee in 1942, was ap-

pointed Director of the Spectroscopy Laboratory in 1946, and Professor of Chemistry in 1954.

In recognition for his work during World War II, he was awarded the President's Certificate of Merit, highest civilian award, in 1948.

Stockham to lecture about signal theory

The MIT Student Branch of the I. E. E. E. will present a lecture by Prof. Thomas G. Stockham, Jr., next Tuesday, November 5, at 4 pm, in the Varnevar Bush Room. The topic of Prof. Stockham's lecture will be "A Survey of Elementary Signal Theory." The lecture is open to the public.

Parkinson satirizes government and industry

By Anthony Pappas

Everyone is familiar with Parkinson's Laws, so these aphorisms do not have to be repeated here. In a lecture Monday evening at 8 pm in Kresge auditorium, Professor C. Northcote Parkinson showed how these laws are applicable to contemporary society. The theme is the same as the one present in his popular books: 'Parkinson's Laws,' 'The Law and Profits,' and 'In-Laws and Outlaws.'

Proceeding from the general principle that complexity produces inefficiency, Dr. Parkinson examined the results in government and industry. In the former, he observed, "we have a lethal system of taxation which is directly responsible for the rise in public expenditures." Ancient Rome too had a cumbersome civil service and its decay was thus inevitable.

Needless to say, such opinions were warmly accepted by businessmen. To show that industry was no better than the inefficient bureaucracy, Professor Parkinson wrote 'In-Laws and Outlaws' in



C. Northcote Parkinson

Photo by John Torode

which he shows that private enterprise is just as fallible. This light satire on the success-pattern of Big Business was the highlight of the evening's talk.

The surest way to success is to be second-best, commented Parkinson. Then, surround yourself with more capable subordinates. Be cautious, compromise, stay loyal to the firm and, if possible, marry into an influential family. According to Professor Parkinson, this prototype of the organization man will climb to the top, but in the process he will lose his personality. The condition is simple: non-origination.

There is a solution to every conceivable problem in 'In-Laws and Outlaws.' If a subordinate is annoying, there are three ways to remove him: promotion, dismissal, and assassination. In modern business the former is the most widely used. And the problems are bound to multiply, what with IBM machines, "scientific" management, and a torrent of paper work.

The foibles of our complex society are very amusing and Parkinson has properly been called "... the Darwin of the managerial evolution—as difficult to laugh off as he is easy to laugh with.



Alan Sheppard and MIT's Russell Schweickart inspect an inertial measurement unit, an assembly of gyroscopes and accelerometers which can measure the direction and speed of the spacecraft.

Rev. Virgil B. Murdock new minister-at-large for Benevolent Fraternity of Unitarian Churches

The Reverend Virgil E. Murdock is the new representative of the Unitarian Universalist Church for the MIT community. He serves as a minister-at-large for the Benevolent Fraternity of Unitarian Churches.

Murdock received his undergraduate degree from the Oklahoma City University in 1955, and his B.D. degree from Harvard in 1958. Since then he has been a

minister in Massachusetts parishes.

He replaces Peter Baldwin, who is now interim director of the Liberal Religious Youth organization in the Boston area.

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THAT



If you can take your nose out of that text book for just a moment, you'll notice that Yum-Yum has emerged as the most stimulating campus sport in many a year. Who needs panty raids when you can Yum-Yum under a large tree or in a little sports car? Be advised, however, that on rainy days the hip prefer their Yum-Yum indoors. (Research rooms of libraries and empty field houses are considered the choicest locations.)



As you've probably deduced by now, Yum-Yum is strictly for Him and Her. And in Columbia's riotous new comedy "UNDER THE YUM-YUM TREE", (Columbia Pictures, not Columbia University) Yum-Yum is developed into a high art form by its greatest practitioner, "Hogan."

Hogan, hilariously portrayed by Jack Lemmon, is a lecherous landlord who rents apartments to attractive girls and goes from door to door with a heart-shaped passkey. One of the tenants is Carol Lynley, a curvy co-ed who is conducting a cozy experiment in platonic, pre-marital co-habitation. (It's all in the interests of science.) Dean Jones is her nervous wreck of a fiance and Edie Adams is on the premises as the marriage-counseling teacher who takes a tumble for Hogan.

Hogan's own apartment, happily referred to as "The Sin Bin," is an electronic ambush-on-virtue that could make etchings obsolete. There's a violin section, for example, that emerges out of nowhere and plays, without benefit of human hands, "Music To Make Yum-Yum By." There's also a bar with enough whiskey to refloat the Titanic. But don't get Hogan wrong. Jack Lemmon defines Hogan as "a man who is outraged at humanity. Therefore, everything that seems outlandish and bizarre to the rest of the world, seems perfectly normal to him. Hogan cannot understand why the world is so ungrateful to him."

We guarantee it's marvelous mayhem and sure-fire material for a term paper on Laughter. It may not earn you an "A"—but what an 'education' when you see Jack Lemmon in Columbia Picture's "UNDER THE YUM-YUM TREE," co-starring: Carol Lynley • Dean Jones • Edie Adams • Imogene Coca • Paul Lynd • Robert Lansing and The Yum-Yum Girls. See it at the Astor Theater, Boston Starts Friday, November 8

Professor Cope wins American Chemical Society medal

Professor Arthur C. Cope of MIT has won the William H. Nichols Medal of the American Chemical Society's New York Section.

The medalist is known internationally for his research in the field of organic chemistry and for his leadership of the American Chemical Society as president in 1961 and as chairman of the board of directors, a post he now holds.

Molecules that contain carbon atoms connected in rings have been a major interest of Dr. Cope. He devised a technique for separating chemical compounds whose molecules differ only in that they are mirror images of each other. During these studies he and his co-workers have discovered many reactions now in industrial use.

Dr. Cope won the ACS Award in Pure Chemistry in 1944 "for

accomplished research of unusual merit for an individual on the threshold of his career" and the Chandler Medal of Columbia University in 1958 "for distinguished research contributions to the knowledge of organic chemistry and energetic and widespread services to the professions of chemistry and science in general." He was given an honorary Sc.D. degree by Butler University in 1955.

Born in Dunreith, Ind., in 1909, the medalist received the B.S. degree in 1929 from Butler University and the Ph.D. in 1932 from the University of Wisconsin. After a National Research Fellowship at Harvard and teaching appointments at Bryn Mawr College and Columbia University, Dr. Cope joined the MIT faculty in 1945 as professor of organic chemistry and head of the department of chemistry. He still holds these positions. He worked with the Office

of Scientific Research and Development during World War II and later received the Certificate of Merit of the U. S. Government.

In addition to serving as president of the Society in 1961 and as chairman of its board for four terms, Dr. Cope also has been chairman of the ACS Division of Organic Chemistry and of the Society's Northeastern Local Section. He is a member of the National Academy of Sciences, the American Philosophical Society, and the American Academy of Arts and Sciences.

The Nichols Medal will be presented to Dr. Cope next March at a banquet in New York. The oldest ACS award, it was established in 1902 by Dr. William H. Nichols for the purpose of stimulating original research in chemistry. It is supported by the William H. Nichols Foundation.

Dr. Nichols, a pioneer in the development of the chemical industry in the United States, was a charter member of the American Chemical Society and its president in 1918 and 1919.

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THE TECH COOP

AIESEC to conduct meeting for students desiring work abroad

A meeting of students interested in the AIESEC-MIT program, will be held in the Schell Room of the Sloan Building at 4:00 pm Monday, November 4.

AIESEC is an international organization of students of business and economics which undertakes, as its principal activity, a program for the reciprocal exchange of such students for short-term training assignments with business firms in other countries.

For further information, contact Pete Ackoff at 536-7831 or X3624.

JP tickets sold out on first day of sales

Tickets for Junior Prom were sold out on the first day of sales last week. Expansion of the Statler-Hilton ballroom made possible the sales of tickets to all the 670 people who placed deposits.

This is 45 more tickets than were sold last year. 100 tickets for Saturday night went on sale Monday. Table drawings will be held next Tuesday at 5:00 pm in a room to be announced later.



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Making the Scene

THIS WEEK'S MUSIC

New England Conservatory — Program of chamber music, Oct. 30, Jordan Hall, 8:30; free; Mozart's Trio in E flat major for viola, clarinet, and piano, Haydn's String Quartet in C major, Nielsen's Woodwind Quintet

Folk Concert — Nov. 1, Symphony Hall, 8:00; Bonnie Dobson, Jackie Washington, Jim Kweskin and his Jug Band; \$4.50, \$3.50, \$2.50

MIT Symphony Orchestra — Concert of Armenian music, with the Komitas Choral Society, Nov. 2, Kresge Auditorium, 8:30; Khachaturian's Symphony No. 1 in E minor, 'Hayr Mer,' and other Armenian songs; \$1.50, \$2.50

'The Worlds of Benny Goodman' — Nov. 2, Donnelly Memorial, 8:30

Bob Dylan — Nov. 2, Jordan Hall 8:30 'Chapel Organ Series' — MIT students, Nov. 3, 4:00; free

Ray Charles — Donnelly Memorial, Nov. 3, 8:00; \$2.50, \$3.00, \$4.00, \$5.00

Glenn Gould — Nov. 3, Symphony Hall, 3:00, Bach's 4 Fugues and 4th Partita, Schoenberg's Suite Op. 25, Beethoven's Sonata op. 101

Jakov Fliers — Russian pianist, No. 4, Jordan Hall

S M T W T F S
3 4 5 6 7 8 9
10 11 12

LSC Contemporary Series — 'Shame,' Nov. 1, Room 10-250, 6:30, 9:00; One of the finest Westerns ever made, Shane tells the story of a former gun-fighter who is determined to live peacefully. Later he is forced to use his gun in the defense of homesteaders. One of the ten best films of the National Board of Review.

'The Inspector General' — Loeb Drama Center, through Nov. 2, 8:30; Wednesday-Thursday \$1.50, Friday-Saturday \$2.00

LSC Entertainment Series — 'Days of Wine and Roses,' Nov. 2, Room 10-250, 5:15, 7:30, 9:45; Jack Lemmon, Lee Remick. They are not long, the days of wine and roses, out of a misty dream our path emerges for a while, then closes within a dream." Based on the dynamic story by J.P. Miller, this production brings to the screen the tragic triangle of man, woman, and drink in Jack Lemmon's most outstanding role of his career.

LSC Classic Series — 'Cabinet of Dr. Caligari,' Nov. 3, 8:30, 9:00, Room 10-250; This study in authority and prototype of the horror film is the only significant work of director Robert Wiene. The film utilizes elaborate studio sets designed along cubist-expressionist lines to convey the psycho-

logical imbalances of its characters. (Germany, 1920). Also, examples of early German work.

LECTURES

Nathaniel Branden — 'Objectivism: The Philosophy of Ayn Rand,' Hotel Madison, 7:30, Nov. 1; \$2.75

'Colloquium Museum' — Bela Boszormenyi-Magy, 'Liszt and Chopin,' Nov. 4, 8:30, BU School of Fine and Applied Arts

Department of Humanities Poetry Series — William J. Smith and Barbara Howes, Nov. 5, 8:00, Hayden Lounge

K.L.S. Rao — of the World Religious Center, 'Christianity: A Private Affair of Church Prosperity? A Hindu View of Christ,' Nov. 6, 7:30, Pendleton Hall, Wellesley College.

MISCELLANEOUS

Boston Arts Festival Rebroadcast — WTBS, Nov. 2, Theodore Bikel, 7:00

'Poetry from MIT' — WGBH-FM 89.7 mc, Richard Wilbur, 7:00

'The Spoken Word' — WTBS, Nov. 3, T. S. Elliot reading his own poetry, 8:00

NEXT WEEK'S MUSIC

Black Watch — Boston Garden, Nov. 8-9

Cincy Brothers — and Tommy Maken, Symphony Hall, Nov. 8, 8:30; \$4.50, \$3.50, \$2.80, \$2.20

Evening of Bach — Festival Orchestra of New York, Nov. 9, 8:30, Sanders Theatre; Concerto for two violins, Suite No. 2, Brandenburg Concerti 2 and 4; \$2.75

Humanities Series — Lenz String Quartet, Nov. 10, 3:00, Kresge Hayden's Quartet in C major, Schubert's Quartet in A minor, Bartok's Quartet No. 4; \$2.50 series \$9.00

BSO Organ Recitals — Marilyn Mason, Nov. 10, Symphony Hall, 6:00; \$1.50, series \$4.00

MISCELLANEOUS

'Alaska and the Far North' — Lowell Thomas, Jr., Nov. 7, 8:00, Kresge

Prof. Lloyd Rodwin — 'National Planning: A Comparison of Problems Faced by the Developing and Mature State,' Nov. 8, Alumnae Hall, Wellesley College, 8:00

Boston Arts Festival Rebroadcast — WTBS, Nov. 9, 7:00, Fourth of July Band Concert with the Concord Band

'The Spoken Word' — WTBS, W. B. Yeats read by Richard Burton, Nov. 10, 8:00

Critic's Choice

Wilder's 'Irma la Douce' lacks consistent viewpoint

By Gilberto Perez-Guillermo

Billy Wilder's 'Irma la Douce' (at the Saxon) begins with a cynical view of prostitution and of honest men in a corrupted world which is mildly funny, but it quickly deteriorates into a series of rather tasteless, mostly unfunny gags, without a consistent viewpoint. Cynicism and sentimentality succeed each other in an uninteresting development. Towards the end, sentimentality takes over with totally disastrous consequences, and the sequence of Jack Lemmon's arrest is wholly inadequate.

Wilder was once a major comedy director, and he had developed a persistently cynical, nihilistic viewpoint, contemptuous of the audience (and indeed one may detect a similar contempt in 'Irma,' in the comely, tasteless ending, for instance, but here the effect is inadequate at every level). Lately, the only consistent pattern in his work seems to be centered around the box-office, and one is left wondering how the creator of 'Some Like It Hot' and 'Sunset Boulevard' could sink to the level of 'Irma la Douce.'

even prefer the selection of 'Greed' to that of 'Potemkin' by LSC, because von Stroheim's film, of at least equal stature as Eisenstein's, is seldom shown. I recommend all the films in the series to anyone seriously interested in films. (They are shown at 2 Divinity Ave., on the Harvard campus, on Wednesday evenings.)

This week's Ivy film (Oct. 30, at 7:30 and 9:30) is Andrzej Wajda's 'Kanal,' a first-class work, a Dantean study of the range of human emotions when subjected to the most adverse circumstances, done with Wajda's mastery of visual means. This young Polish director has already earned a place in the history of the cinema.

There seems to be no appreciation in this country for the artistic values of a pure Western. 'A film like 'Rio Bravo' is great... because it is an organic artistic whole; it is self-sustaining, consistent with itself, harmonious, and imposes its own beautifully balanced rhythm on the audience... an ideal, self-contained, mythical experience.' (Geoffrey Nowell-Smith in his interesting article on 'Movie and Myth' in the Spring issue of 'Sight and Sound'. In the US, however, Hawks' 'Rio Bravo' was more or less ignored, while George Stevens' 'Shane' (at LSC Contemporary Series) was widely praised. 'Shane' is a self-conscious attempt at American Epic, which succeeds less than 'Rio Bravo' in its treatment of the classical Western myth, precisely because of its greater pretensions. Stevens has tried to place his hero in a more 'humanistic' context, thereby disturbing the harmony achieved in Hawks' film.

Blake Edwards' reputation as a director has always been a mystery to me. His latest, 'Days of Wine and Roses' (as LSC Entertainment Series), is a tedious, self-righteous piece on alcoholism. By the time Jack Lemmon and Lee Remick decide to quit drinking for the nth time, and can't help start drinking again also for the nth time, one has a strong desire to walk out of the theatre, which becomes irresistible when some fellow from the AA, with an awful holier-than-thou tone, starts lecturing on the evils of alcoholism.

FILMS TO AVOID: 'Irma la Douce,' 'Days of Wine and Roses,' 'Toys in the Attic,' 'Mouse on the Moon,' 'Five Miles to Midnight,' 'The List of Adrian Messenger,' 'The Wrong Arm of the Law.'

FILMS TO SEE: 'Shane,' 'The Man Who Knew Too Much,' 'This Sporting Life,' 'Rock-a-Bye, Baby,' 'Lawrence of Arabia.'

FILMS NOT TO MISS: 'Hatan!' 'Kanal,' 'The Leopard,' 'The Man Who Shot Liberty Valance.'

I have complained at length ('The Tech,' Oct. 2) about the low quality of the LSC Classic Series this semester. As an example of what could have been done, I will point to the Harvard equivalent, the 'Ivy Films Fall Series.' The quality of the features is much better, including Mizoguchi's 'Ugetsu,' Dreyer's 'Vampyr' and von Stroheim's 'Greed,' among others. And I

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movies...

'Caretakers' depicts mental asylum

by Joseph C. Lambert

The Caretakers, now showing in the Boston area, is beyond doubt one of the poorest psychological dramas to reach the screen since the beginning of the trend toward these productions.

Joan Crawford and Robert Stack head an unconvincing cast. The essential plot of the movie centers around the "good guy", a psychiatrist of the "new method", and his attempts to use group therapy and virtual complete freedom as a method for curing the inmates of a mental hospital. His efforts, nevertheless, are thwarted by the efforts of the "bad girl", the head of the hospital nursing staff, who wishes to place all patients in confinement.

The movie pursues the characters through plots and subplots—the devotion of the doctor to his calling, the miscellaneous affairs between the doctors and the surprisingly beautiful nurses, the behavior of several types of amazingly insane women when thrown

together, and, naturally, the ever-impending meeting of the State Mental Health Board, where the two sides of the methodology issue were to be debated.

Unfortunately, even the well-known actors in the film are unable to be convincing in the artificially melodramatic screenplay. The climax, an unsatisfactory imitation of "David and Lisa", holds such interesting lines as "(gurgles) goood" "Elsa, you talked!, Oh, Elsa! (embraces, kisses, chagrined expressions on the faces of the members of the "bad side", and the triumphant smile on the face of the victorious "good guy"). This reviewer was not moved by the group scenes showing the borderline cases (as a matter of fact, we found these scenes hilarious), nor even by the regressed ward, where a hundred women sang, rocked imaginary babies in their arms, and lay on the floor in prenatal positions. In toto, the film is terrible.

An evening seeing this current double feature is a privilege not to be accorded to a dog, nor to

a mere person. This reviewer has never before been so bored as he was at this motley pair of film productions.

Movie Schedule

Wednesday, October 30 through Tuesday, November 5 (Unless otherwise stated the Sunday schedule is the same as the weekday schedule except that no movies are shown before 1:00 A.M.)

ASTOR—'In the French Style,' 9:40, 11:10, 1:40, 3:40, 5:40, 7:40, 9:40; Sunday, 3:10, 5:10, 7:10, 9:10.

BEACON HILL — 'Fantasia,' 9:00, 11:10, 1:20, 3:30, 5:40, 7:50, 10:00.

BOSTON CINERAMA — 'How the West Was Won,' 8:30 matinees Wednesday, Saturday 2:00, Sunday 1:00, 4:45.

BRATTLE — 'Candide' through Saturday; Russian Film Festival — Sunday, 'The Battleship Potemkin'; Monday, 'Chapayev'; Tuesday, 'We Are From Kronstadt'; Wednesday 'Peter the Great, Part 1.' Daily 5:30, 7:30, 9:30, matinees Sat & Sun. 3:30.

CAPRI — 'The Lilies of the Field,' 10:30, 12:00, 2:00, 4:00, 6:00, 8:00, 10:00, Sunday, 1:25, 3:20, 5:20, 7:20, 9:20.

CINEMA — 'Lord of the Flies,' 2:20, 4:15, 6:07, 8:00, 10:00.

COOLIDGE CORNER — 'Lawrence of Arabia,' 1:15, 3:00; Sat. & Sun., 1:00, 4:20, 8:00.

EXETER — 'Heavens Above!' 2:15, 4:30, 6:45, 9:00.

GARY — 'The Leopard,' 10:00, 12:45, 3:30, 6:15, 9:00; Sun., 1:00, 3:45, 6:30, 9:15.

HARVARD SQUARE — 'Lawrence of Arabia,' 2:00 and 8:00.

KEITH MEMORIAL — 'The Running Man,' 11:10, 2:40, 6:05, 9:35; 'The Gun Hawk,' 9:35, 1:00, 4:30, 7:55. Starting Friday: 'Twilight of Honor,' 11:00, 2:30, 6:00, 9:25; Sun., 1:40, 5:10, 8:55.

LOEY'S ORPHEUM — 'The V.I.P.s,' 10:15, 12:30, 2:40, 4:55, 7:10, 9:35; Sunday, 1:00, 3:00, 5:05, 7:20, 9:40.

LSC — 'Shane,' Nov. 1, Room 10-250, 6:30, 9:00; 'Days of Wine and Roses,' Nov. 2, Room 10-250, 5:15, 7:30, 9:45; 'Cabinet of Dr. Caligari,' Nov. 3, Room 10-250, 6:30, 9:00.

MAYFLOWER — 'Johnny Cool,' 10:15, 1:55, 5:35, 9:15, Sun., 1:25, 5:05, 8:45; 'Car Me Bwana,' 11:55, 3:35, 7:20, Sun., 3:03, 6:45.

MUSIC HALL — 'Cleopatra,' 2:00, 8:00.

PARAMOUNT — 'The New Kind of Love,' 1:35, 4:05, 6:35, 9:05.

PARK SQ. CINEMA — '8 1/2,' 2:15, 4:30, 7:00, 9:00.

PIGIRIM — 'The Old Dark House,' 9:30, 12:25, 3:20, 6:30, 9:30, Sun., 1:00, 3:50, 6:40, 9:30; 'Maniac,' 10:55, 1:50, 4:55, 8:00, Sun., 2:25, 5:15, 8:05.

SAYON — 'Ima La Douce,' 11:30, 2:00, 4:30, 7:00, 9:30.

UPTOWN — 'The Great Escape,' 12:30, 4:40, 9:00, Sun., 1:00, 5:00, 9:10; 'Mouse on the Moon,' 11:00, 3:15, 7:30; Sun., 3:40, 7:40.

WELLESLEY COMMUNITY PLAYHOUSE — '55 Days at Peking,' 7:45, matinees Wed. & Sat. at 2:00. Starting Sunday: 'The Condemned of Altona,' 7:45, Sun. continuous beginning at 4:45.

'Look at those beady eyes'



"If you look closely, you can see the hairs and the disgusting, beady eyes," explains Gil Robbins (second right) about an instrument made from an armadillo. The Highwaymen concert Saturday was sponsored by Alpha Phi Omega.

—Photo by William Park

Poetry Series to begin next week

William Jay Smith, poet-in-residence at Williams College, and his wife, Barbara Howes, will give the first reading in the Department of Humanities Poetry Series November 5 at 8:00 in the Hayden Lounge.

A former Rhodes Scholar, Smith is the author of several books of poems, including 'Celebration at Dark,' and 'Poems 1947-1957.' His wife is the former editor of the literary quarterly 'Chimera.' She is the winner of 'Poetry' magazine's Bess Hokin Prize and has published three books of poetry, the latest 'Light and Dark.'

An informal discussion will follow the reading.

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World Explorer

Lowell Thomas Jr. to speak

Lowell Thomas Jr. will speak on 'Alaska and the Far North' November 7 in Kresge Auditorium at 8:00. The lecture, sponsored by the Lecture Series Committee, will be free.

Thomas will narrate his new film, 'Follow the North Star.' This technicolor film was shot during two expeditions to Alaska, the Arctic Basin and the North Pole.

Parts of the film were made into a television program, which won the Christopher Award.



Lowell Thomas Jr.

New Nationalist Chinese decree outlaws export of "pirated texts"

Pirated textbooks may no longer be exported from Taiwan, according to a recent decree of the Nationalist Chinese government. Such organizations as the Technology Textbook Association, which sold texts on the MIT campus during the 1961-1962 academic year, are now illegal both in America and in Formosa.

Nationalist China does not belong to the International Copyright Convention, and the pirating of American textbooks had been a profitable enterprise in recent years. Earlier the government had banned commercial export of books, allowing only textbooks planned for personal use to leave the country. Now all such exportation is illegal.

In June, 1962, the Board of Customs in Boston began checking all packages from Taiwan that might contain pirated texts, partly as a result of the attempt at large-scale distribution of such books by student entrepreneurs at MIT during the year. The would-be student entrepreneurs were dismissed from the Institute.

BSO Concert

Friday, Nov. 1, 2:00; Saturday, Nov. 2, 8:30; Symphony Hall, Richard Burgin conducting: Berlioz—Overture, "The Corsair," Op. 21; Hindemith—Symphonia Serena; Tchaikovsky—Symphony No. 6, in B minor, Op. 74, "Pathétique."

Theatre Schedule

CHARLES PLAYHOUSE — 'The Hostage,' 8:30.

HOTEL BOSTONIAN PLAYHOUSE — 'The Bald Soprano,' and 'The Dock Brief,' Wed. 7:30, Fri. & Sat. 7:00, 9:30, Tues.-Thurs. & Sun. 8:30.

IMAGE — 'Antigone,' Sat. 7:00, 9:00, Wed.-Fri. 8:30.

SHUBERT — 'One Flew over the Cuckoo's Nest,' 8:30, matinees Thur. 2:15, Sat. 2:30.

WILBUR — Starting Thursday: 'Once for the Asking,' opening night 8:00, other evenings 8:30, matinees Thur. 2:15, Sat. 2:30.

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November 2
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A LECTURE
LOWELL THOMAS, JR. - "ALASKA AND THE FAR NORTH"
THURSDAY EVENING, NOVEMBER 7, 8:00 P.M. KRESGE FREE

Symposium on radiation effects draws 150 scientists

A five-day symposium on the biological effects of neutron irradiations was held at the Atomic Energy Commission's Brookhaven National Laboratory, Upton, New York, last week. This was the first scientific symposium to be held in the United States under the sponsorship of the International Atomic Energy Agency (IAEA), a United Nations-affiliated organization with headquarters in Vienna, Austria. The Symposium was being held in cooperation with Brookhaven and the U. S. Atomic Energy Commission. Approximately 150 scientists from eighteen nations and two international agencies attended. The following countries were represented: Austria, Belgium, Canada, Czechoslovakia, France, Germany, India, Italy, Japan, Mexi-

co, Netherlands, Pakistan, Sweden, United Arab Republic, United Kingdom, United States, USSR, and Venezuela.

At the Symposium, scientists presented papers dealing with damage to living organisms caused by their exposure to radiation in the form of neutrons. While much has been learned about x-ray and gamma-ray effects, comparatively little is known about the biological effects of neutrons, and therefore many of the symposium papers reviewed the various aspects of neutron experimentation.

Among other topics dealt with at the Symposium were the radi-

ation pathology of neutron irradiation, including acute and chronic radiation syndromes, and the delayed consequences of neutrons (such as longevity, tumor incidence, fertility, and effects on offspring).

Simultaneous translation into French, Russian, Spanish and English was provided during the presentation of all the technical papers and discussions. The Symposium proceedings will be published subsequently by the IAEA.

The scientists attending the Symposium have been appointed by their respective governments, following invitations from IAEA to the various member nations.

Computer used as classroom aid

A small computer will be used by the Civil Engineering Department in the classroom as a teaching aid. The computer is linked with the 7090 and is expected to become an important teaching tool, first in computer courses, and later in general studies.

The idea of a classroom computer is not new. Computation centers are commonplace, and computers have been around a long time. Even classroom computers have been used before — but only in courses teaching computer techniques. The idea of computers teaching general studies is being put to a practical test.

One of the problems that is being encountered is how to make machine language immediately understandable to the student. While most students can understand computer language systems in a computer course, such real items as force, stress, strain are not readily apparent when written in computer language.

The computer itself consists of rather elaborate input-output devices connected in a direct link with the 7090 on a time-sharing basis. In addition links with various laboratories will provide data for experiments in progress in the laboratories. Transistorized TV cameras and monitors will permit the student to "look over the instructor's shoulder."

The plan is slated to begin in some Course I subjects in about two weeks. Approximately twenty-eight students will comprise each of the original experimental classes.

WHAT'S NEW IN THE NOVEMBER ATLANTIC?

"The Eisenhower Administration: A Self Portrait": An assessment by historian Oscar Handlin, based in part on Ike's new book, *Mandate for Change*.

"Book Censorship in Paris": Peter Lennon reports on the rigid censorship of books and magazines in France.

"The Moment": A poem by Peter Davison, this year's winner, Yale Series of Younger Poets.

"The Nobel Prize Winners": A satire on American industrial research companies and their status-mongering, by W. J. J. Gordon.

PLUS AN ATLANTIC EXTRA

"Blame Me on History": South African Negro journalist, Bloke Modisane, tells of his bitter struggle to maintain integrity and self-respect.

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A Message To Doctoral Candidates in Science or Engineering

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The company regards the wide diversity of the Center's fundamental and applied research programs as the foundation upon which much of its future progress depends—and supports it accordingly. Scientists and engineers here have the most modern research equipments at their disposal. They associate closely with prominent basic and applied research scientists from many fields. They also benefit from cross-fertilization of ideas with the systems engineers and product designers who must make practical application of new technological knowledge. Contacts are maintained with a notable panel of consultants outside the company.

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Gernsback tells SF Society

Most science fiction really fantasy

Hugo Gernsback, publisher, author and inventor, spoke on 'The Prophets of Doom' last Friday.

The lecture, sponsored by the Science Fiction Society, was attended by about 50 people, most of them society members.

Gernsback criticized modern science-fiction writers for writing what he calls 'fantasy,' rather than true science fiction. Science fiction, he said, must 'forecast the wonders of man's progress to come.' Its main purpose must be instructive and educational.

Gernsback called much modern science fiction 'decadent,' adding that it has degenerated into a number of subgroups, none of them pertaining directly to science.

Writers today, said Gernsback, know little about the future of science, and do not have the imagination to cope with coming events. Thus they take refuge in non-scientific fantasy.

Technical people in the United States today, said Gernsback, still seek out and read 'true science fiction,' because it gives them ideas of events to come. He called this science fiction 'a powerful force' and said it 'stimulates



Hugo Gernsback

thinking men whose destiny is tied up strongly in the future.'

Science fiction is not on the way out, he said. He cited a recent article in a fan magazine which foresaw the decline of science fiction, and castigated it for failing to mention Arthur C. Clarke, an English author whom he called 'perhaps the most outstanding true science-fiction personality' today.

He also quoted several articles written in the late nineteenth century which derided such 'impossibilities' as flight through the air and determining the chemical structures of the planets.

Gernsback said that imagination has decayed in the world today, and in conclusion cited a prediction he had recently made in an article on microminiature color television. In the article he foresaw the use of extremely small television cameras injected into the body for observation of internal diseases.

Gernsback's speech followed a banquet held by the Science Fiction Society at Technology Square. The banquet was attended by 24 people, including Gernsback, his wife, and science-fiction author Hal Clement, author of a number of books noted for their depiction of alien planets and peoples.

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New teaching method gives the instructor immediate feedback

By June Paradise

A new classroom technique designed to provide instructors with immediate student response to lecture material is in the experimental stage. In the experiment, the instructor is able to determine whether or not the class is following the lecture, getting bored, or becoming bewildered.

A switchboard of lights was located in front of the classroom for the instructor. Each of the thirty students in the classroom was given a switch which he could use to indicate whether the instructor was going too fast, too slow, just right, or if it would be appropriate to stop for a question. These remarks would register on the instructor's switch-

This experiment was continued for five or six sessions in Professor Herbert H. Richardson's 2.021 class last term. According to Professor Richardson, "The experiment was interesting and a step in the right direction."

A further application of this system, according to Professor Richardson, could be the Freshman Physics Lectures. With this system the professor could at least have some indication how many of the students were grasping the material.



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AN EQUAL OPPORTUNITY EMPLOYER

The other side of the world Indians unaccustomed to the signs of progress

By Ron Randall
Editor's note: This is the second in a series of articles by Don Randall describing his experiences in India last summer.

The flight from Kashmir back to New Delhi was uneventful. I could still feel the bump-b-bump of the pony I rode up the winding trail to Gulmarg, that vale of beauty high in the Himalayas, and the panoramic glory of the Kashmir valley at my feet was still in my mind's eye as our Electra landed at Palam Airport. Back to the stifling heat of Delhi. We claimed our baggage and

hopped aboard the Indian Airlines bus that was to carry us in to Connaught Place — downtown Delhi. We had to hold the bus a moment as one of the girls in our group finally found her suitcase and ran over to climb aboard.

I sat down next to a young Indian man. Was I part of this group of Americans? Yes. We were travelling all over India visiting Universities and meeting with students. Yes, I liked India very much; the people are all so friendly. Oh — you work at the airport. That must be interesting work.

an elephant. As I leaned back into my seat my companion thoughtfully remarked, "That camel is a strange thing for you to see, isn't it?" "Yes, I guess it is . . . " "But a jet plane taking off at the airport isn't, is it?"

I couldn't help but feel that here, sitting next to me, was a man to whom the things we take for granted were novelties, minor miracles that he could barely appreciate, and which he could not really fit into the context of his own life. He would never feel the sense of expansive freedom that comes with the conveniences (the 'essentials') of modern life in America; he would never be able to do as many different things in his lifetime as we can in ours.

Put another way; the world of the average Indian is the world of the immediate present, and of his immediate environs. The things he sees are right there in front of him, not hundreds of miles away by TV or movies: the people he speaks with are standing right next to him; not listening at the other end of a telephone line.

The places he hopes to go to today aren't really very far away — and it takes an unpredictable amount of time and effort to ride a cart for any distance farther than he cares to walk.

It's very hot today anyhow, so he probably won't even make the trip at all. Besides, the food he will eat for dinner will have to be gotten this afternoon — refrigeration; what is it? Meanwhile, his wife will be busy spinning some hemp into rope for his rope-bed, or carrying water in buckets up from the well, or kneading some dough for tonight's chipatis (bread).

Time is an amorphous piece of elastic to him. It makes no sense to plan for tomorrow's activities, for any one of an innumerable list of things might go wrong. It's difficult to coordinate his activities with those of others, because he cannot get in touch with them if they are far away. And even if he arranges to meet someone there is little likelihood that they would reach the same place at anything like the same time — the camel cart might hit a rock and crack its axle.

Then I saw the camel cart. A tall, ungainly camel was pulling a very high two-wheel cart behind it, the driver peering around its hump to direct it. I leaned forward slightly to get a better look as we passed by, intrigued by the hueg, spoked wooden wheels. Another member of our group will never be forgotten in Allahabad — he ran all the way down a street to get a picture of



Ron Randall

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Time magazine reports

Tech coeds revealed to have taste

"We're a powerful minority," says 19-year-old Sue Colodny," asserting the growing omnipresence of the MIT coed, in a Time article of October 18.

Shattering the image of the coed "as a girl five feet tall and equally wide, a slide rule hanging at her belt, who can speak only in differential equations," the ar-

ticle indicated that coeds were becoming socially acceptable at MIT while retaining their long-standing record of high academic performance.

The new breed of Tech coed has diverse interests encompassing many facets of campus social, political, and extracurricular life. One anonymous freshman was quoted describing the social life as "wild" while another reported that campus activities had recruited her vigorously.

Accompanying the article was a picture of Carlyn Voss '67 attending a physics lecture while male classmates continue their daily routine impervious to her presence.

Since the appearance of the Time article, nineteen-year-old Colodny '65, recently elected president of McCormick Hall and the only coed mentioned by name, has reported receiving unexpected

correspondence as a result of the publicity from as far away as Pakistan.

The correspondence seems to marvel at this select group of students who, Time says, "adore 'deep people,'" "scorn 'meats' (inarticulate athletes), and go for 'tools' (grinds) only if they can be 'unlocked' (relaxed," while "much preferring (Techmen) to Harvardmen, who are 'all the same'."

Dr. Karl L. Feters metallurgy head

Dr. Karl L. Feters, former Open Hearth Fellow for a year. At MIT he was named an Honorary Fellow and elected to the honor societies Tau Beta Pi and Sigma Xi. He returned to Youngstown as general metallurgist.

Dr. Feters was born in Alliance, Ohio. He received the degree of Bachelor of Science in metallurgical engineering from Carnegie Institute of Technology in 1931. His degree of Doctor of Science was conferred in 1940 by Massachusetts Institute of Technology. He taught at both schools.

His career began at 16 in Alliance as a chemist for Morgan Engineering Co. From 1933 to 1936, he was assistant metallurgist for National Tube Co. in Lorain. For two years thereafter, he was open hearth metallurgist for the Youngstown Sheet & Tube Co.

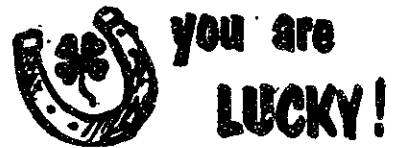
He interrupted his Youngstown work for a year to serve at MIT as research assistant, and as

Dr. Harold Edgerton second speaker in series of APO sponsored Technology Forum talks

Doctor Harold Edgerton, father and ultra-bright lighting technician was basic to the development of high-accuracy aerial reconnaissance. His underwater cameras were employed in the search for the nuclear submarine Thresher.

Dr. Edgerton's world-famous "motion-stopping" photographs are on permanent display at MIT, and his research in high-speed

Dr. Edgerton will speak Monday, Nov. 4, at 4 pm in the Little Theater.



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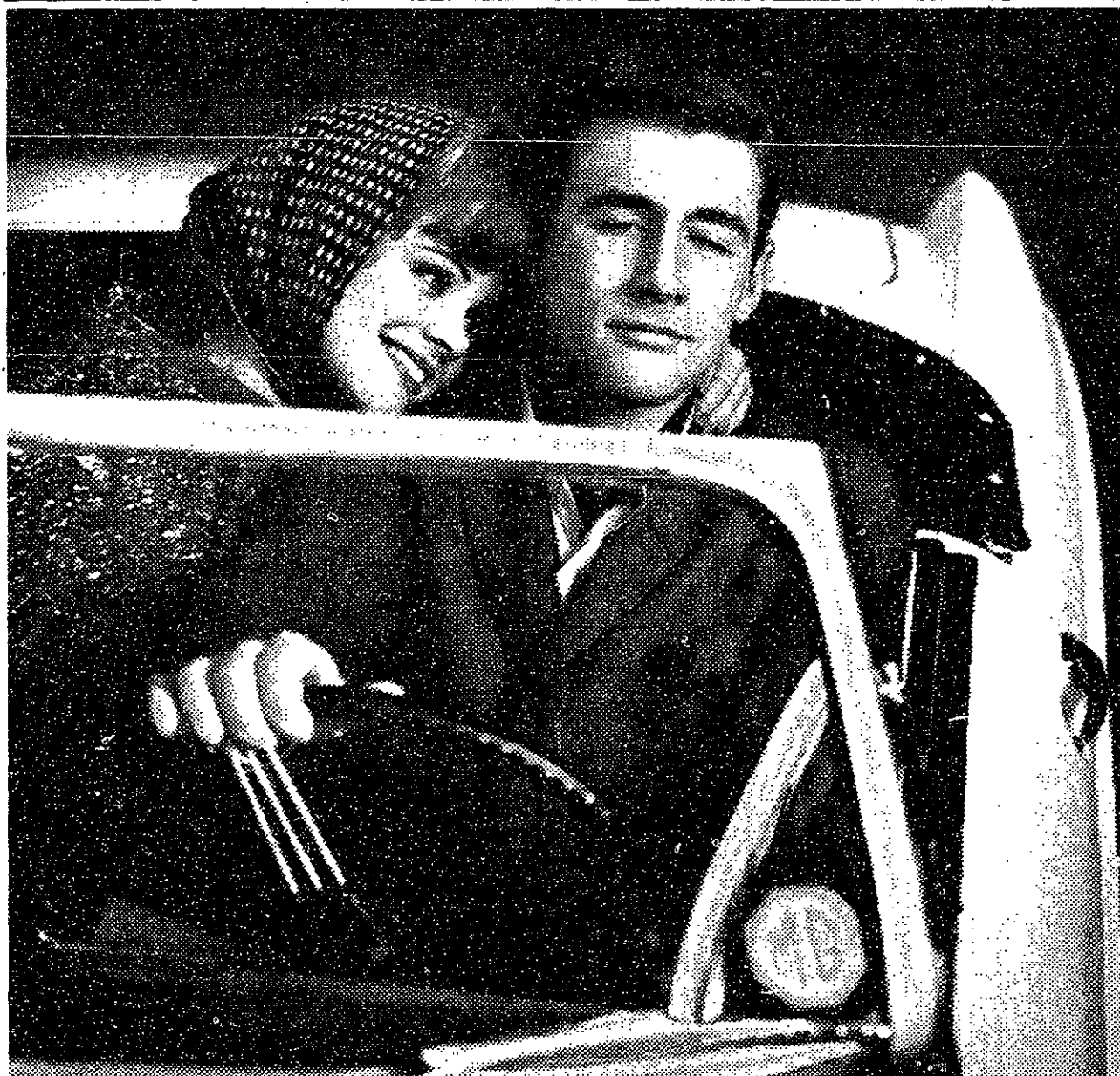
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November 4, 1963

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Mayflower II designer now heads Francis R. Hart Nautical Museum

William Avery Baker, designer of Mayflower II, is the new head of the Francis Russell Hart Nautical Museum. Mayflower II, built in England, was sailed to this country and is presently moored in Plymouth, Mass.

Mr. Baker is a recognized authority on ships of the 17th and 18th centuries. He has been responsible for the redesign of several other vessels, including Amundsen's Gjoa, the first vessel to make the Northwest Passage. For this work he received St.

Olav's Medal from King Haakon VII of Norway.

He has written numerous articles and two books on ships of this period. He serves as consultant to the National Geographic Magazine.

Mr. Baker is a graduate of the Department of Naval Architecture and Marine Engineering at MIT. At present he is also employed as a supervising engineer with the Shipbuilding Division of Bethlehem Steel in Quincy, Massachusetts.

Mr. Baker, and his wife, Ruth, live at 10 Rice Road in Hingham, Massachusetts.

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2nd team loses, 36-0

Boston Club beats ruggers by 19-6

By Richard Johnstone

The MIT Rugby team met its first really stiff opposition Saturday when it lost 19-6 to the Boston Rugby Club at their new field between Mass. General Hospital and the river. Tech also was defeated 36-0 in a second-team game at Briggs Field.

Boston Outplays Tech

The first game was played under very unusual conditions as the general drought had reduced the surface of the field to dust and it was often impossible to follow the ball in the scrums.

In the first half MIT was outmaneuvered by the quick handling and running of the Boston team. Two quick tries and a long penalty goal put Boston 9-0 up before MIT gathered themselves up to stop the rout. The Boston team was kept out until just before the half-time whistle when they scored another try which was converted to give them a 14-0 half-time lead.

Gerrity Scores Twice

The second half showed a much improved MIT team. The scrum with a greater push got the ball from the majority of the scrums and the three-quarters' covering and tackling became more determined. From the line-outs MIT got their fair share of the ball but this was not always to our advantage as Boston was very quick to break through the line-outs and gave Marty Weber, the MIT scrum half, a hard game.

After several promising attacks MIT reduced Boston's lead through two almost identical tries; in each case Tom Gerrity '63, playing his first season of rugby, broke thru several half-tackles to score in the right hand

corner. Boston, however, came back to score again and the game ended with Boston the victors by 19-6.

The game showed up many MIT weaknesses which had not appeared in their previous games against weaker teams and it was a small measure of consolation to learn later that this was the first time that the Boston line had been crossed this season.

The second team game which was played at MIT was in some ways similar to the first. This was the first game of the season for the team and injuries and touch-football games had left the team sadly depleted.

An inexperienced scrum were outplayed by a good Boston eight which included a German International. The first half saw Boston score 26 points without reply.

Intramural wrestlers to grapple

Intramural matmen will compete for both personal and house titles next Friday and Saturday. Last year over 100 participants, competing for 24 teams, wrestled before some 150 who were jammed in the wrestling and fencing rooms in Dupont Athletic Center.

The wrestlers this year will be divided into eight weight classes, the lower two classes of last year's nine being combined to increase competition in that bracket. The weight classes will be 124, 133, 140, 147, 157, 167, 177,

and unlimited. Each wrestler will have to weigh in at Dupont by 4:00 pm, Friday.

Matches are slated to begin at 7:30 Friday night and will be run using a double elimination system. Friday night matches, which are 3 minutes long, will include all contests up to the semi-finals for the winners and including the semi-finals in the consolation matches. The semi-finals for the winners and finals will start on Saturday at 1:30 pm and will be four-minute matches.

Skaters out early at Harvard rink

Varsity hockey practices have been held at Harvard's rink for the past two weeks to give the team more practice and a jump on the season. This increased practice time will eliminate problems of past years.

The roster shows seven returning lettermen, eleven from last year's Frosh squad, and three upperclassmen from the intramural elite of last year. The team

seems to have the potential and, from all indications, the depth to have a winning season. The Varsity's first game is with the University of Massachusetts December 7 at MIT.

Frosh practice will get underway the first week in November. The season will start with a meeting in the DuPont Lobby at 5:00 pm November 4. All interested freshmen be there.

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SAE's, Delts, PKT, GMS in football finals

By RICH HOFF

Sigma Alpha Epsilon and Delta Tau Delta squeezed by Phi Delta Theta and Phi Gamma Delta last Saturday in the A division semifinals of the Intramural Football League.

In the B division semis Phi Kappa Theta and Graduate House Management Society won over Zeta Beta Tau and Theta Delta Chi.

On Deck

Today, October 30

Soccer — Bridgeport, Home, 2:00 pm
Soccer (F) — Exeter, Home, 3:00 pm

Saturday, November 2

Sailing — Schell Trophy at MIT continues through Sunday Nov. 3)

Monday, November 4

Cross Country — Easterns, Away
Tuesday, November 5
Soccer — Boston University, Home, 2:00 pm

How They Did

Soccer

Coast Guard 3 — MIT 1
Springfield 5 — MIT 1
Belmont High School 2 — MIT (F) 1

Cross Country

Bates 33 — MIT 42 — BC 45
MIT 25 — Coast Guard 30
Boston College (F) 15 — MIT (F) 45

MIT (F) 22 — Coast Guard 33

Sailing

MIT (F) second in hexagonal at Holy Cross

Rugby

Boston Rugby Club 19 — MIT 6
Boston Rugby Club 36 — MIT 0

SAE, last year's champions, scored two quick touchdowns in the opening minutes and withstood a strong Phi Delt comeback to win, 20-18. SAE scored the first time they had their hands on the ball on a 7-yard pass play from Bob Balacek '64 to end Flint Watt '66.

On the ensuing kickoff a low boot bounced off a Phi Delt lineman and the SAE's recovered on their opponent's 38. After two incompletions, Balacek hit Fred Souk '64, who had evaded the Phi secondary, with a long bomb to give the SAE's a 13-0 lead.

With 40 seconds left in the half, Dick Lipos '64 snatched a 10-yard TD pass from Tom Bush '66 out of the hands of the defending Souk, making the halftime score, 13-6.

Phi Delt Rally Fails

In the opening seconds of the final quarter Bush found Lipos wide open in the end zone and hit him with a 13-yard toss. The extra point pass attempt failed and SAE remained ahead, 13-12. Minutes later the Phi Delt's gambled on a fourth down pass which went incomplete, and the SAE's scored two plays later. The Phi's took the kickoff and scored again, but the game ended a minute later.

Dreiss Tally Beats Fijis

In the other semifinal A match, Delta Tau Delta defeated Phi Gamma Delta, 6-0, in overtime. The game was evenly played and although both teams threatened several times the defenses continually held. With a 0-0 tie at the



Phi Gamma Delta quarterback Roy Wyttenbach '64 tries to skirt right end as Delta Tau Delta defenders close in in Saturday's IM football semi finals. The Delts won 6-0 in sudden-death overtime.

—Photo by John Torode

end of four quarters, the game went into a sudden death overtime. Finally, the Delt quarterback Bill Dreiss '64 broke the ice by going four yards for the score on an end sweep to end the ball game and give the Delts a shot at SAE.

GMS to Meet PKT

In a B division semifinal match, Graduate Management Society shut out Theta Delta Chi, 25-0. Twice the Grads intercepted passes within their own twenty and went all the way for the score. Their other scores came in the first quarter on a long pass,

and in the final minutes on a 20-yard run.

Phi Kappa Theta defeated Zeta Beta Tau, 13-6, giving them the chance to play GMS this weekend for the B division championship. Zeta Beta Tau struck first, scoring on a 5-yard pass in the second quarter. Phi Kappa Theta led at halftime, 7-6, as quarterback Dick Morgen '65 hit Tom Charcut '64 with both a touchdown and extra point pass. In the third quarter, Phi Kappa Theta made it 13-6 when Morgen hit Larry Schwoeri '66 for a score.

Fall to Springfield, CG

Booters outscored twice

The MIT soccer team, sporting a five game unbeaten streak, found itself at the wrong end of two results this week, losing to Coast Guard and Springfield college by scores of 3-1 and 5-1 respectively.

Playing at Coast Guard in a game in which the wind was a dominating factor, the Tech defense made three costly mistakes—mistakes which led to all three Coast Guard goals. Coast Guard scored first, midway through the first quarter.

This goal, however was neutralized very soon afterward when captain Bob Mehrabian '64, scored off a corner kick. The Coast Guard team kept hustling MIT off the ball, and were rewarded when their inside right headed the ball into the goal off a cross from the left wing. The final Coast Guard goal came in the second quarter, after a series of miskicks by the MIT defense.

MIT journeyed to Springfield Saturday to play a team that is considered a top contender for the New England championships this year.

Frosh Sports

Tars second to Holy Cross in hexagonal meet

By Charlie Willman

Tech's frosh skippers distinguished themselves once again in Ivy League competition last week as they finished second in one meet, and took an early lead in another. Due to the unfortunate withdraw-

al of a boat, the Tech sailors finished second behind Holy Cross in a hexagonal meet there Oct. 20. However, last Saturday there was nothing to stop them as a Tech team of two freshmen led all other boats in the qualifications for the Priddy trophy at MIT.

In six races at Holy Cross, the techmen placed first in three, and it was only the withdrawal of their entry in one of the races that caused them to finish second behind their host. The difference was only one point, as MIT, scoring 22 points to HC's 23 beat such rivals as Harvard, with 19, and Boston College with 16. The qualifications this past Saturday for the Priddy Trophy were an entirely different story, as skipper Mike Zuteck and his crew Rod Peterson led all other boats in that race. The results of the finals will appear in next week's column.

Soccer

Tech's soccermen lost to Belmont High School by a score of 2-1 Monday, October 21. The Techmen fell to Belmont in an overtime period. After a first period goal by Belmont, the Engineers bore down and played well.

Their only score came on a penalty shot by Rick Gostyla to tie the score at 1-1 just before the end of the regular playing time, but Belmont won on a freak goal that went in off a Tech defender's back in the first overtime period. Earlier in the game, a hard shot by Farhad Ghassemieh had just missed going in as it hit the crossbar.

Cross Country

The frosh harriers split in two meets last week, losing to Boston

Harriers outrun Coast Guard, BC — bow to Bates

In a closely-fought meet run at Franklin Park last Wednesday, the MIT cross-country squad finished second against Bates and Boston College with the score Bates 33, MIT 42, and Boston College 45.

This race proved to be a real team effort, since the meet was won when Tech's fourth and fifth men finished directly ahead of those from B. C.

Brown Breaks Own Record

Sumner Brown '66, broke his own MIT course record of 19:53 with an outstanding 19:32 for the 3.95 miles. This meet also marked the first real challenge for Brown this season with McKusick of Bates and Jutras of BC finishing three and eight seconds behind him and challenging him all the way.

The other scorers for MIT, all running their best times of the season, were Roger Butler '65, 6th in 20:31; Dick Purves '65, 10th in 21:28; Dick McMillin '66, 12th in 21:39; and Rob Wesson, '66, 13th at 21:47.

Techmen Take Coast Guard

The harriers marked up another victory at Coast Guard Saturday by the score of 25-30. The Engineers took 5 of the first 8 places for the win.

Brown added another win to extend his string to six with a 21:02 time, winning by 25 seconds over the 3.9 mile course. Rounding out the five scorers for MIT were Butler, 3rd at 21:54; Wesson, 6th in 22:39; Purves, 7th at 22:42; and McMillin, 8th in 22:44. The squad's record now stands at 7-4.

Brown, Dunsky Clash

In a meet run yesterday at Franklin Park, Sumner Brown met Dave Dunsky of Northeastern in one of the top man-to-man clashes of this season. Dunsky was the only runner who beat Brown in freshman competition last year.

The water was so inviting...



... that these four frosh oarsmen just couldn't resist the plunge. These first-year crewmen have just learned the wrong way to board a four-oared shell. Dunking took place at MIT boathouse dock last Friday.

—Photo by Steven Rife

9.01

Introduction To Sports

Managing

By Henry Modetzl

One of the largest and most rewarding of all M.I.T. activities is the M.I.T. Athletic Association. The M.I.T.A.A. offers a great opportunity to those who desire executive experience and responsibility and a chance to perform a vital service to MIT athletics, especially in the field of Intercollegiate Freshman and Varsity Managing.

Managing of Intercollegiate sports forms one of the largest divisions of the Athletic Association, and in this field there are many openings, especially for freshmen and sophomores.

Duties and responsibilities

The duties and responsibilities of the manager are many fold. To the team, he must be the jack-of-all-trades. At home games, he is responsible for keeping records, paying the referees, arranging medals for visiting teams, and reporting the game results to news media.

On away trips, he is trusted as the man who will have the bus here and there on time, who will make sure all the equipment is always brought along, and who will, in general, make sure that the trip runs smoothly, and that

the coach and team members have few worries about the administration of the trip.

But there is another side to the coin, as well. The money for team trips must be budgeted for and appropriated by the Institute long before the season starts. Every manager is responsible for the preparation of the team budget for the following school year.

This year the total appropriation for eighteen sports amounts to over \$62,000. Quite a responsibility is placed on each of the 18 varsity managers administering these budgets, and a degree of executive and managerial ability is required that is found in few student offices and indeed, in few athletic manager positions at other colleges.

Managers vote in AA council

Outside of his team interests, the manager has a hand in overall AA administration. Varsity managers, along with team captains and intramural managers, have voting powers in all AA meetings.

The Varsity Council, presided over by the Varsity Vice President, is made up of all managers, of whom the varsity and first-

assistant managers have voting powers. This council elects the Varsity Vice President, serves as a general forum for managers, and helps to set the standards of athletic management and manager training.

Rewards and advancement

The job of manager offers many chances for reward and advancement. Managers receive numerals, letters, and athletic credit on the same basis as other team members. The Varsity Vice President, Recorder, Publicity Manager, and often the A.A. President rise from the manager ranks.

But the main reward for a lot of hard and demanding work is the satisfaction of a job well done and the helping of an MIT athletic team achieve its peak performance.

The winter sport season will begin soon. All the winter sports will need freshman managers and many will have openings for assistant managers. If you are interested in managing, contact the coach of the sport that interests you, or leave your name with the Athletic Association in du Pont, x-2913.

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