

By Mark Bolotin

For the first time, MIT students will be requested to identify themselves by race on Registration Day. This information is being sought in order to comply with a directive of the Department of Health, Education, and Welfare.

Civil Rights Act

HEW has required all higher education institutions receiving or requesting Federal aid to file annual reports by Nov. 15, so that HEW may determine whether the institutions are complying with Title VI of the Civil Rights Act of 1964. However, these annual reports will not be the sole measure of compliance.

Title VI of the Civil Rights Act states "No person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of or be subjected to discrimination under any program or activity receiving Federal financial assistance." The Civil Rights Act authorizes Federal departments and agencies extending financial assistance to issue regulations for carrying out the above provision, and provides for denial of Federal aid to any recipient who fails to comply.

White, Negro, or 'other'

The HEW questions ask for a breakdown of the student enrollment by race (white, Negro, or "other"). Similar breakdowns are requested for those students residing in college-owned housing, those students receiving athletic scholarships, those students receiving other financial aid administered by the institution, those male students taking basic ROTC

training, and those male students who received ROTC commissions in June. A further breakdown by citizenship (USA or foreign) is requested within each category.

Initial response at MIT to the HEW questionnaire was one of indignation — there was doubt that a school had the right to request such data. Harvard University also had doubts about HEW's directive; they gave deep consideration to going to court in protest, but finally chose to comply with the directive. MIT soon followed suit.

Visual survey rejected

Another difficulty encountered was the choice of a method for determining the data. Due to the late notification date, permission was given by the HEW that this year's report might be estimated or taken by visual survey. No

estimates were available and the latter alternative was rejected, since it would be impossible to accurately determine a person's race from his freshman picture.

Registration Day forms

Consequently, all students, both undergraduate and graduate, will be given forms by their faculty counselors on Registration Day to be returned in exchange for roll cards. On these forms each student is asked to give his name, social security number, and race (white, Negro, or "other"). The Bursar's Office will correlate this information with data already known in order to obtain all the facts requested by HEW.

The information will be stored so that it will not be necessary for returning students to fill out the forms again. This information will be released only to HEW.

343 frosh pledge houses before Rush Week closes

By Greg Bernhardt

Rush Week 1967 provided 676 freshmen with a taste of the fraternity style of life. Traveling from house to house, they sampled the living groups that one third of the MIT men call home. By Wednesday over half of the newcomers had decided on a house for their next four years.

This year's Rush Week went at a slower pace than last year's. IFC Rush Chairman Jim Truitt attributes this to the increasingly better classes that come to MIT.

He feels that the freshmen are taking more time to consider their choices, thus pledging more slowly. Truitt adds that most of the houses have pledge classes of the size they like.

Final totals were not available at press time, but Wednesday evening totals showed 676 rushees as compared to 695 last year. Pledges numbered 343, down 21 from last year's total. A breakdown of the individual houses is as follows:

AEP	18	PKT	11
ATO	13	PMD	13
BTP	10	PSK	8
CP	9	PLP	14
DKE	9	SAE	13
DP	7	SAM	17
DTD	16	SC	9
DU	12	SN	9
KS	13	SPE	18
LCA	14	TEP	13
PBE	11	TC	11
PDT	9	TDC	14
PGD	12	TX	9
PKS	13	ZBT	18

(Continued on Page Three)

Mayor Collins named Professor in Department of Political Science



Photo by George Flynn

Boston's Mayor John F. Collins presented two seminars at MIT in March. In view of his subsequent appointment as Professor of Political Science, it might appear that his honor was merely getting a little practice.

By Claudia Stanley

As the campaigns for the office of mayor in Boston reach their heights, Boston's present mayor, John F. Collins, prepares to assume his position as a professor in the Department of Political Science at MIT.

Commenting on the position he will assume on January 2, 1968, the day after he completes his term in office, Mayor Collins said, "I am pleased and honored to join the distinguished faculty of MIT. During almost eight years as Mayor and as President of the National League of Cities, it has become evident that only by new concepts and dramatic innovation can America conquer its most crucial domestic problems."

Need to save cities

"Population shifts and the imbalance of resources make necessary a national effort unprecedented in domestic America to save our cities. Every segment of our nation must join in this endeavor—public sector with private, university, business, labor. The technical capabilities contributed to defense and space needs and the systems management approach designed by university and industry must now be directed to our urban problems."

"New tools for urban management and a far greater percentage of the gross national product to improve the environment must be the result."

(Continued on Page Six)



Vol. 87, No. 28 Cambridge, Mass., Fri., Sept. 15, 1967 Five Cents

Phi Beta Kappa application prepared by faculty group

Within the next month, MIT is planning to file a formal application for a local chapter of Phi Beta Kappa, the honorary organization honoring undergraduate work in liberal studies.

Prof. William F. Bottiglia, Head of the Department of Modern Languages and Linguistics and Chairman of the committee sponsoring the application, foresees a few

problems in obtaining a chapter. For one thing, he feels that MIT's lack of a real major in Foreign Literature may preclude formation of a chapter here.

Unlike Tau Beta Pi, which honors work in engineering, and Sigma Xi, which recognizes scientific achievement, Phi Beta Kappa provides recognition for work done in liberal, non-vocational fields. As such, it would probably nominate members from the Departments of Science, and Humanities and Social Science. The Department of Architecture might also provide members, depending upon whether individual students' majors were liberal or vocational.

At present, the plan has been agreed to by the Faculty Council. After final application has been filed, the national organization of Phi Beta Kappa will send an investigating team to the campus. If MIT's application is accepted, the present committee, headed by Prof. Bottiglia will be expanded to draft a charter, and oversee the initial procedures leading up to installation.

Wynne named internal organizer



John M. Wynne

By Paul Johnston

John M. Wynne, Associate Dean of the Alfred P. Sloan School of Management, has been appointed to the newly-created post of Vice President - Organization Systems. The appointment was announced by President Howard W. Johnson August 25, and Mr.

Wynne assumed his new duties as of that date.

As Vice President - Organization Systems, Mr. Wynne will work with President Johnson, with Provost Jerome B. Wiesner, and with the Deans of the MIT schools in several administrative areas. He will direct studies aimed at the continued improvement of the Institute's administrative organization, including improved methods for internal communications. He will coordinate organization planning activities and will support the physical planning work of the Institute.

Long range planning

As Mr. Wynne sees it, his number one problem is that of long range planning. Mr. Wynne feels that this long range planning should be put on "an orderly and recurring basis." Goals should be set for perhaps a ten

Visual arts center established

A Center for Advanced Visual Studies has been established at MIT. President Howard W. Johnson announced the new Center in mid-July. Gyorgy Kepes, painter, author and professor of visual design in the Department of Architecture, has been appointed director. Studios and other facilities for the new center will be housed in the building formerly occupied by the Technology Store, across Massachusetts Avenue from the main MIT complex.

Interplay encouraged

In the new center, painters, sculptors, film makers and scientists will work together on projects in visual arts which draw upon the skills of the various disciplines. Exhibitions, seminars and other events will be held to encourage interplay among artists and people from other fields. No formal course work is planned.

"Activities in the visual arts date back to the very beginning of MIT," President Johnson said, "and there has been a burgeoning of interest in the arts in recent years. This interest . . . may be found among students and faculty members in every field. Through the visual arts one can impose form and meaning on the increasing complexities of human experience, including those of science. And science today has much to contribute in imaginative new approaches to the arts."

Visual Arts Fellows

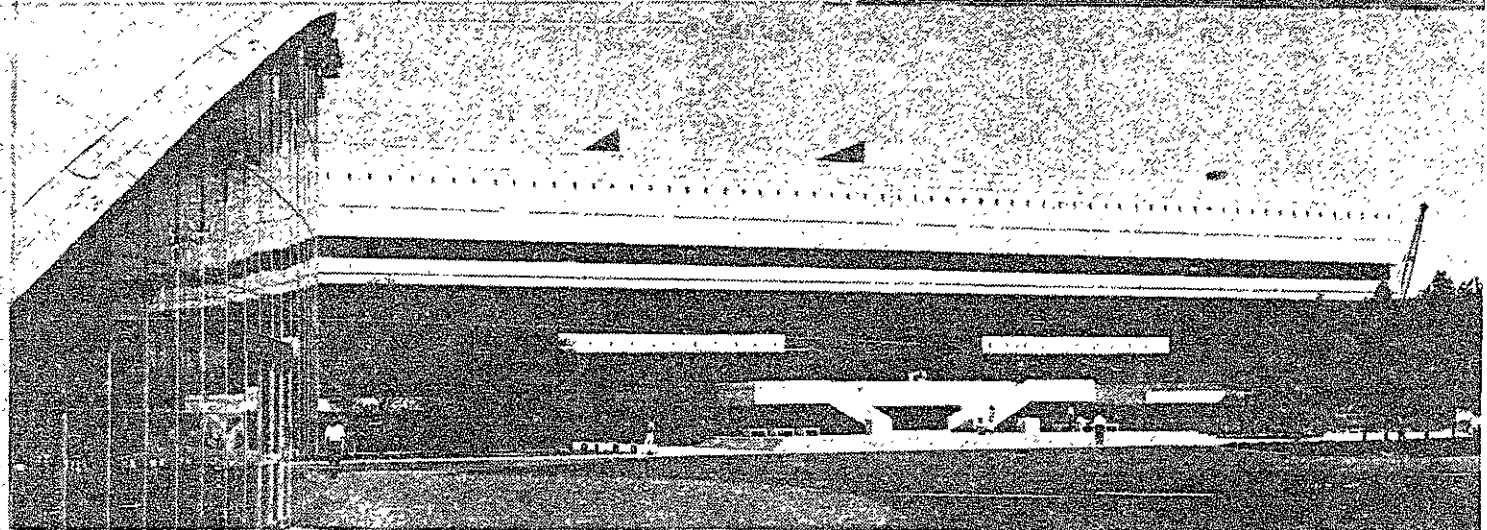
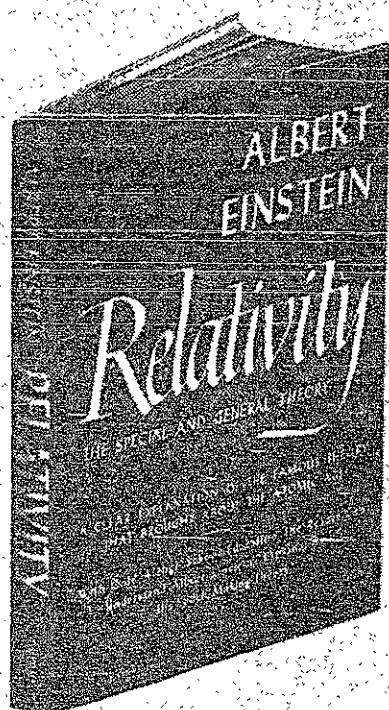
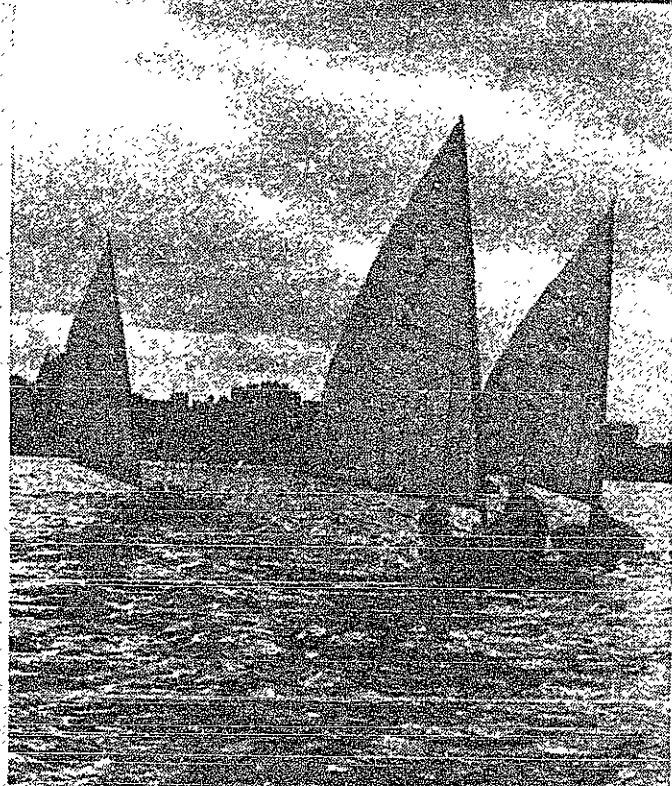
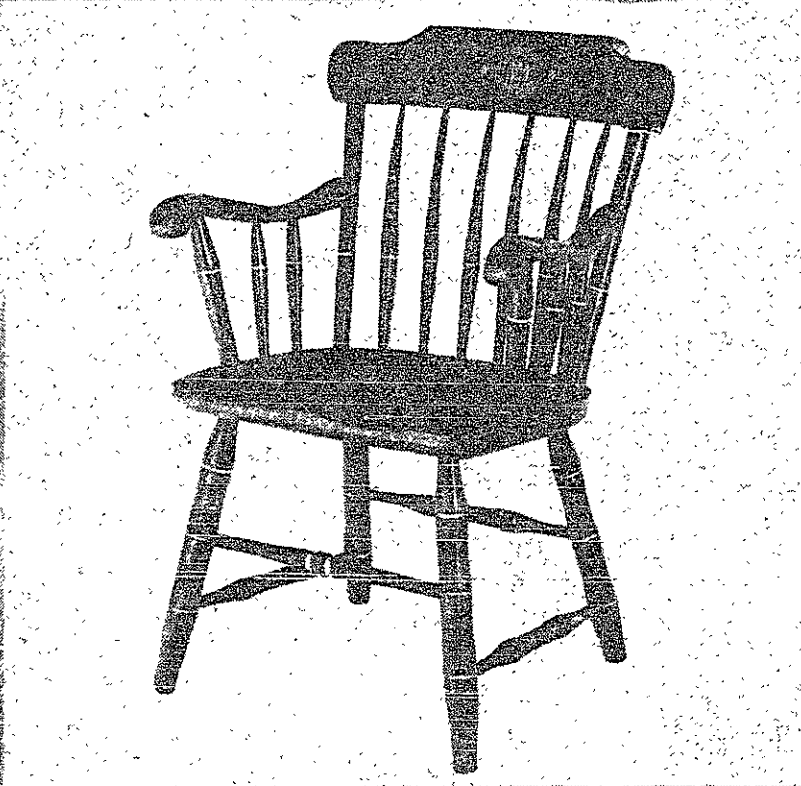
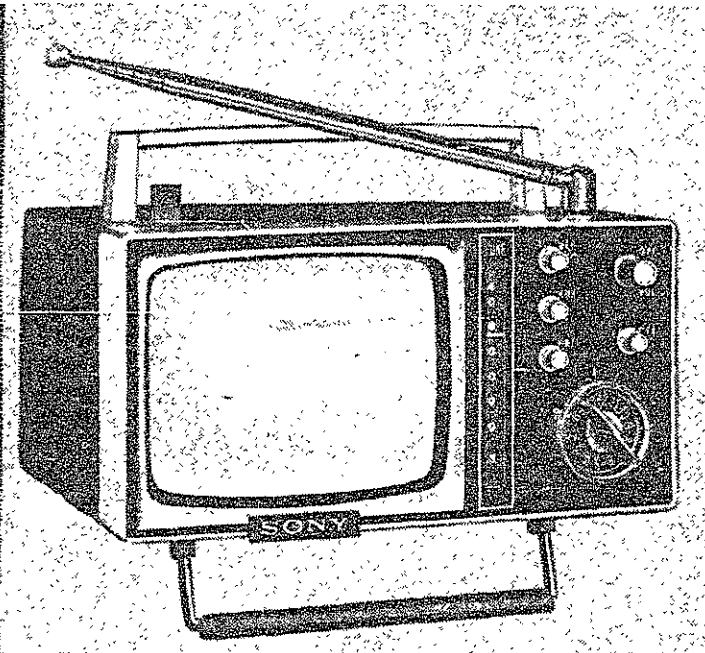
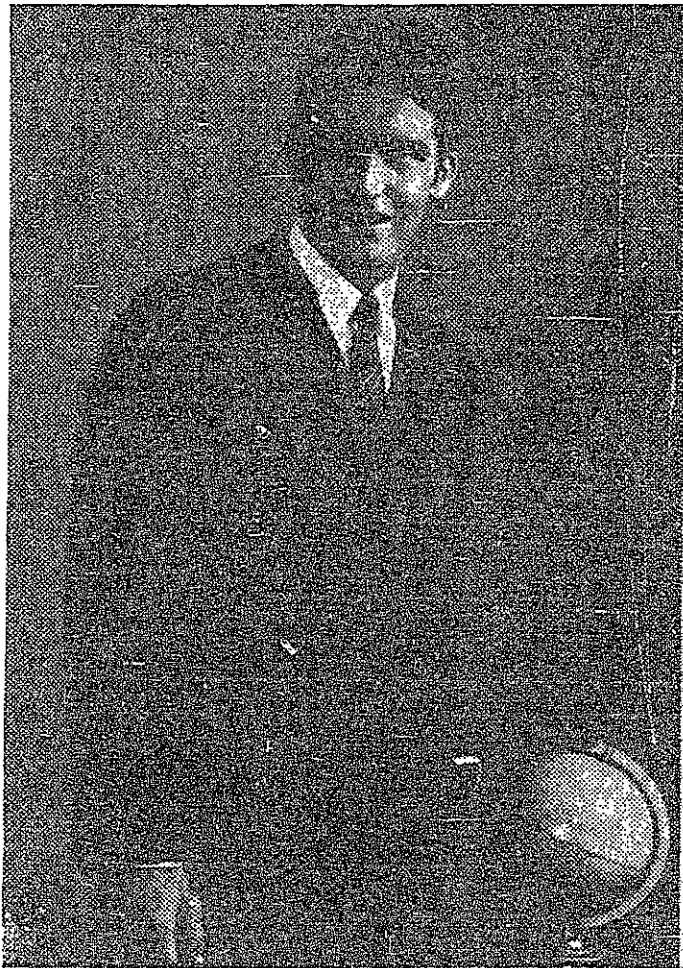
As many as eight artists, some with established reputations, others just beginning their careers, will be appointed as Fellows in the Visual Arts, to work in the center for as long as two years with students in architecture, city planning, science and engineering.

"The central concept is effective collaboration," Professor Kepes said. "One goal will be to develop 'idioms of collaboration' among artists, scientists and engineers, though experimental work on common tasks that are challenging enough to focus their creative energies and interests. The tasks must have the potential for more serious professional achievement."

Experimental projects

Projects which may be undertaken include such areas as the creative use of light, new aspects of environmental art and the role of visual signs in communication. "For example," Professor Kepes said, "painters may experiment with the quality of light, its colors and patterns, and sculptors with forms of light in space. As the concept develops, film makers may experiment with animation to produce dynamic visual models. Films may also provide an important documentary record of each project and may then be of wide interest in themselves."

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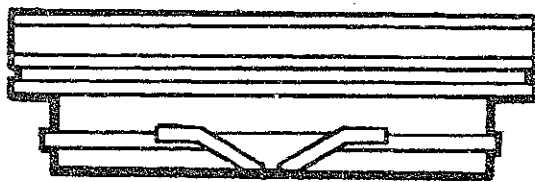
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**New library rule
Unlimited faculty borrowing ended**

Professor William N. Locke, Director of the MIT Libraries, has announced a change in the rules concerning the amount of time which library materials borrowed by faculty members may be retained without renewal.

The rule . . .

The new rule states: "That the same rules be applied to all MIT staff, students and employees, in order that all books and journals should be on the library shelves and available for consultation by all when they are not in active use."

The rule has been approved by the Executive Board of the Faculty Committee on the Libraries, the Academic Council and the Committee on Educational Policy. It will apply only to materials borrowed after September 1, 1967.

. . . and the reason

The reason prompting this action was that when renewal was not necessary, faculty members were expected to return material after a semester. In practice, however, a quarter of the borrowed material did not come back after a year, and there were no fines. Now the same borrowing period applies to everyone in the Institute. At the end of this time all borrowers will have to renew books which they wish to keep longer. Renewal may be done over the phone, and the number of renewals is unlimited. Like everyone else, faculty members will be expected to pay fines for materials kept beyond the due date.

In the case of rare or expensive materials needed over a relatively long period for some special purpose the Director of Libraries may set an extended borrowing period.

'Long range goals the key to orderly growth': Wynne

(Continued from Page One)

From the increase in new buildings needed to accommodate expanded departments come the need for an expanded faculty and staff. Finally the amount of money needed to carry out the plans can be calculated.

Mr. Wynne intends also to look at the general information systems of the Institute. Here, he feels that the job is to review how decisions are made, and to see that information is available at those levels where it is useful.

Mr. O. Robert Simha, Planning Officer and the Office of Institutional Studies under the direction of Mr. Dean L. Jacoby will work with Mr. Wynne.

Mr. Wynne received his BA from the University of Kansas in 1940 in Political Science. Following war service as a lieutenant in the US Navy, 1942-46, he was employed by the US Air Force at the Sacramento Air Material Command, where he became chief civilian executive. In 1956 he received his Master's degree in Industrial Management from MIT. Two years later he came to MIT as Director of the Executive Development Programs at the Sloan School, serving in that post until 1961 when he became Associate Dean of the School. He is a member of Phi Beta Kappa and was a Sloan Fellow at MIT during 1955-56.

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'Others' under the skin

With characteristic government subtlety, the Department of Health Education and Welfare, on behalf of the Federal Government, has demanded certain data about MIT students to be broken down according to the categories of white, Negro, and "other." For MIT which has elected to comply with the new regulation rather than appeal it to the courts, it presents a major departure from historic precedent. Never before has MIT been interested in whether a student was an "other" or not, nor has any information about race, religion, or nationality (only legal citizenship and place of birth) ever been requested either for admissions or afterward. The fact of a student's religion was sent only to the appropriate religious counselor and never maintained in permanent records.

Since HEW will use this information as one criteria to determine compliance with the Civil Rights Act of 1964, a prerequisite for any government funding whatsoever, it has demanded only summary data. It said it would accept estimates this year though more accurate information will probably have to be supplied beginning in 1968. MIT, after some discussion among the administration, has decided to issue a card on Registration Day which asks the student's name, social security number, and whether he is white, Negro, or other. Once this information is obtained, all the necessary information HEW needs could be compiled from the computer stored files of the Registrar.

The Registrar has promised that this new bank of information concerning race would be kept entirely separate from the regular bank, and would be used only for HEW. After this year, only new students would be required to fill out such a card.

An alternative proposal which would have eliminated the necessity to identify each student was rejected by the

Registrar on a number of grounds, namely that there was not enough lead time to incorporate such a plan this year, that it required a lot more work since the present system enables the Registrar very easy access to the needed information, that the Registrar's method required only new students be polled each year, and that there were difficulties about the financial aide question because of the differences between MIT funds, outside funds, loans, and outright scholarships.

Whether the question of a student being white, Negro or other is a difficult one to answer to some, or whether it is contrary to his desires or principles to answer such a question is a problem which each individual must confront on Registration Day. The possible personal affront to those who are considered "others" must be looked upon with compassion for a well-intentioned government attempting to combat discrimination in certain areas, though they may appear bungling and un-diplomatic at times. Furthermore, MIT has not demanded this information, notably the Institute has made it a request of the individual student to answer as his conscience directs.

We believe that whereas MIT has found it unnecessary and undesirable to maintain this new data in the past, and whereas HEW does not explicitly require this information according to individual students now or in the future, there is no reason, if it can be avoided, to maintain such records now, no matter what assurances there are.

If purely technical reasons prevent the institution of any alternative plan for this year, than so be it—but the anonymous information sheets could be devised for next year and sent with registration material; the present records could be destroyed. Surely an intelligent questionnaire could circumvent the actual data problems, and though it might be more work for the Registrar, it is nevertheless, worthwhile in the long run.

Rush Week and the IFC

The Interfraternity Conference prides itself on the large degree of autonomy it enjoys, and in its ability to effectively manage its own affairs. But events which occurred this past Rush Week seem to indicate that there should be a re-evaluation of just what is the jurisdiction of the IFC and what is the province of a larger segment of MIT.

The traditional Friday night meeting was the center of a fair amount of controversy as the IFC declared it to be a closed meeting open only to freshman and members of the IFC executive committee. First the UAP was informed he would not be allowed to speak at the meeting, thus putting aside precedent in an economy move to reduce the number of speakers. The only non-IFC voice was that of Dean Grey's; there was no student present who represented in any way the entire MIT undergraduate body.

Though discussion of a possible role in the program for the Dormitory Council President was shelved, the IFC promised to distribute an information sheet about the new Dormitory Clearing House, in addition the DormCon president assumed he would be at least allowed to attend the meeting. As it happened he was told that he would be physically barred from attending. The

information sheets were never completely handed out because of some printing which had inadvertently gotten on the back of a small number of the copies. The number of faulty copies, however, were few.

Two photographers from The Tech and Technique were told they would be allowed to enter only for the very first 15 minutes, though a compromise was reached which allowed the photographers to remain inside Kresge, and the UAP was finally allowed to enter.

In general it appeared to some that the IFC was trying to avoid cooperating with the efforts of dormitory council to present a better welcome to the dormitories to those who do not enter the fraternity system. It appears to us that the IFC has regarded Rush Week as so exclusively its own, that it reserves the right to do with it anything it wishes.

We would disagree with this philosophy. Rush Week is endorsed very strongly by the administration, of that there is no question, and most freshmen make no distinction between MIT and the IFC, rather assuming most of Rush Week to be guided by administrative hands. Furthermore, over two-thirds of the class attends Rush Week, a significant enough percentage that MIT must take an interest in the welfare of the students coming to Rush Week. Since one-half of those arriving enter the Dormitory system, it is perfectly justifiable that the Dormitories too take a special interest in the nature of the week.

When all is considered, Rush Week is more than an IFC event, it is in a real sense a Residency Decision Week, and as such can not be so dominated by the IFC that the welfare of the students vis a vis MIT, as well as the interests of Dormitory Council, be totally ignored. Increasingly the problem of dormitory-fraternity relations is coming under intelligent discussion and improvement continues. We believe it is up to the IFC to cooperate with Dormitory Council even when it involves what the IFC regards as its most sacred time—Rush Week.

footnotes*

By Michael Warren

60. There is at least one male freshman who could qualify for highest honors as a true operator. This suave soul, when applying for dormitory assignments, listed Baker as his first choice, Burton as his second choice, and McCormick as his third choice. At last report our friend was temporarily housed in East Campus, awaiting a permanent room.

61. A small but noticeable undercurrent of dissent is growing among socially conscious Tech men. The disturbing catalyst was an article in a recent Time magazine which listed MIT as having the lowest rate of venereal disease among Boston colleges. The aforementioned Techmen feel that this revelation is a slight upon their masculinity, and many have vowed to proceed immediately with corrective measures.

62. It now seems that besides administrative and counseling

chores, MIT deans will be periodically asked to accept other tasks such as waiting and bus-ing for banquets held around Tech. The first dean to be privileged with an opportunity to show his style at the transporting of culinary delicacies was Jay Hammerness. Along with his secretary, Dean Hammerness filled in for student help who had disappeared, at a recent banquet at Lobdell. As of yet, no report on the service was forthcoming.

63. Rush Week 1967 was not without its goofs. One promising rushee with two Friday night invitations on the books of the IFC Clearing House, managed to wind up spending the night at an entirely different house. Somehow, the third house was under the impression that the freshman was free for the night, and gave him a last minute invitation. As could be expected, considerable confusion prevailed until the situation was untangled by the IFC.

Looking Back

By Ed Chalife

40 Years Ago

MIT's class of '31 was oriented to life at Tech in a manner very different from that which faced the class of '71 this past weekend. In September of 1927 120 freshmen and thirty activity leaders took over Camp Massapoag, the Cambridge YMCA Boys' Camp at Dunstable, Massachusetts. A program of speeches, discussion groups, and entertainment was sponsored by the Technology Christian Association. The frosh were transported to the camp by bus on Friday afternoon and were returned to MIT on Monday morning in time for registration.

30 Years Ago

The freshman-sophomore rivalry of 1937 began on October 4 of that year when about thirty freshmen invaded a meeting of Agenda, the dormitory sophomore honor society. This first riot of the year was ended quickly by sophomore reinforcements to the accompaniment of water bags, buckets of water, and firecrackers. Some of the outnumbered freshmen, were relieved of their clothes, while others were thrown into the showers with their clothes on.

20 Years Ago

Esquire Magazine had nothing but praise for MIT in an article appearing in the Novem-

ber, 1947 issue of the magazine. The article pointed out that at that time graduates of the Institute were the chief executives of General Motors, General Electric, DuPont, Goodyear, and dozens of other major corporations. The magazine went on to note that in World War II 88 generals and 37 admirals were alumni, and every Navy ship afloat was designed by a graduate.

Perhaps the most reassuring statement in the article was, "There is probably no place in the world where it is necessary to maintain such continuous exertion to achieve a simple B.S. degree."

10 Years Ago

The Rover Club, forerunner of ZBT came alive after a period of relative inactivity, and began to rush for pledges from the class of '61.

The Finboard budget was increased by nearly \$10,000 bringing it up to \$47,000.

Niels Bohr, famed Danish theoretical physicist, came to MIT as the first Karl Taylor Compton Lecturer. Bohr gave a series of six lectures entitled "Quantum Physics and the Notion of the Complementarity." While in the US, Bohr received the \$75,000 Atoms for Peace Award, from the committee chaired by Dr. James R. Killian.



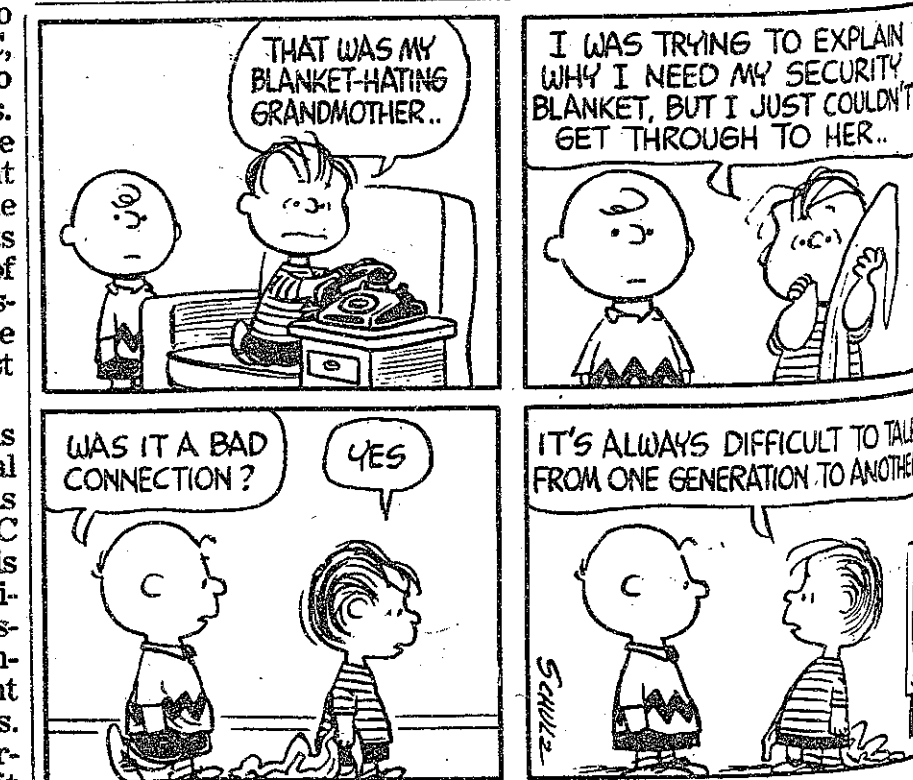
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New frosh prove brightest ever

Data on the Class of 1971 shows that, as expected, this year's Freshmen are the smartest yet. The CEEB test scores of this class increased an average of seven points over the Class of '70's showing. The average Math Achievement score this year was 773, and about 85% of the incoming Freshmen were in the top tenth of their class.

Geographic variety

There are 917 members of the class, including 53 women and 42 foreign students. In all, 49 states (South Dakota is the exception) and 21 foreign countries are represented. More than 40% have qualified for advanced placement and degree credit, and nine qualified for admission after only three years of high school.

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More than half of the Class of '71 will receive financial aid — 35 are National Merit Scholars. The rest will receive aid in the form of both loans and scholarships.

Activities varied

The distribution of activities in the Class of '70. More class officers and Varsity letter winners are included, but fewer of-

ficers in community or religious groups, and members of dramatic groups.

Overall, 5944 preliminary applications were received, and 3661 final applications. Of these, 1359 were offered admission. This represents a drop of about 65 in both number of final applications received and number offered admission as against 1966 (Class of '70).

Housing shortage strikes; 42 freshmen left roomless

A housing shortage is once again a problem at MIT, as there are still 42 freshmen who have not yet been given room assignments.

The difficulty can be traced to several roots. First, not as many upperclassmen as expected moved from the dormitories into apartments. Second, the number of freshmen who pledged fraternities dropped 23 from last year. This cannot be attributed to an unsuccessful Rush Week—only 13 bids remain unaccepted—but to a smaller number of bids extended.

To alleviate the housing shortage, West Street Apartments will be used again this year. Although there is only space for 20 students, attempts are being made to persuade a family presently residing in the apartments to move elsewhere. Other methods to alleviate the shortage include a \$25 penalty fine instituted upon any upperclassman who moves back into the dormitory system and the continued change of East Campus singles into doubles.

Kenneth R. Wadleigh, Dean of Student Affairs, expressed the hope that these procedures would be enough to provide room for everybody by Registration Day.

One nice thing about the Boston Bag,

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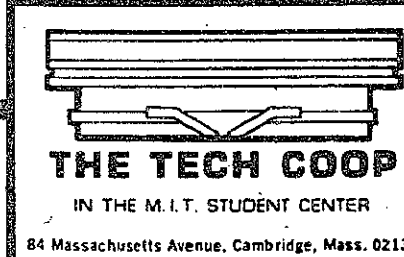
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The 20" Boston Bag opens and closes by a zipper with a lock at the top. In addition it has a spacious 12" zippered pocket (17" x 9") on the front. The color is blue with brown trim.

Regular Price \$18.
Coop Price: \$14.95

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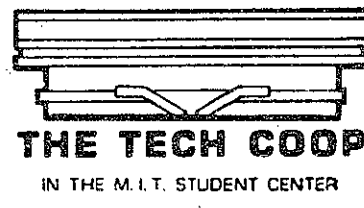
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Dr. Klaus Biemann to become McCormick Hall housemaster

products are recognized throughout the world. In 1962 he received the Stas Medal of the Belgian Chemistry Society of which he is an honorary member, and in 1966 he was selected to membership in the American Academy of Arts and Sciences.
Atii-inM

Dr. Klaus Biemann, a native of Innsbruck, Austria and Professor of Chemistry at MIT, has been appointed new housemaster at McCormick Hall.

He and his wife, Vera, and their two children, Hans-Peter who is seven and Betsy who is three, succeed Professor and Mrs. Lynwood S. Bryant who will return to their home in Winchester, Mass.

PhD at Innsbruck

Professor Biemann received his PhD in Organic Chemistry in 1951 from the University of Innsbruck. He came to MIT in 1955 as a Research Associate. His work on the use of mass spectrometry in determination of the structure of more complex organic molecules, such as those found in natural

Collins to teach Tech graduates in urban affairs

(Continued from Page One)

"MIT with its vast reservoir of expertise and resources can be a focal point in this endeavor. I look forward to an opportunity to play a role."

Fellows in Urban Affairs

One aspect of the MIT program with which Mayor Collins may be closely identified is a plan by which young graduates will be appointed as MIT Fellows in Urban Affairs, a plan by which they will serve for two-year periods in municipal or other government departments. They may be management specialists, political scientists, systems engineers or experts in other fields, such as transportation. Under this program, about a dozen Fellows will be appointed each year, and their grant will be provided, at least in part, by MIT in order to make the appointments competitive with other job opportunities. Details of the program have not yet been worked out, but selection of the first group of Fellows is expected to be made next year.

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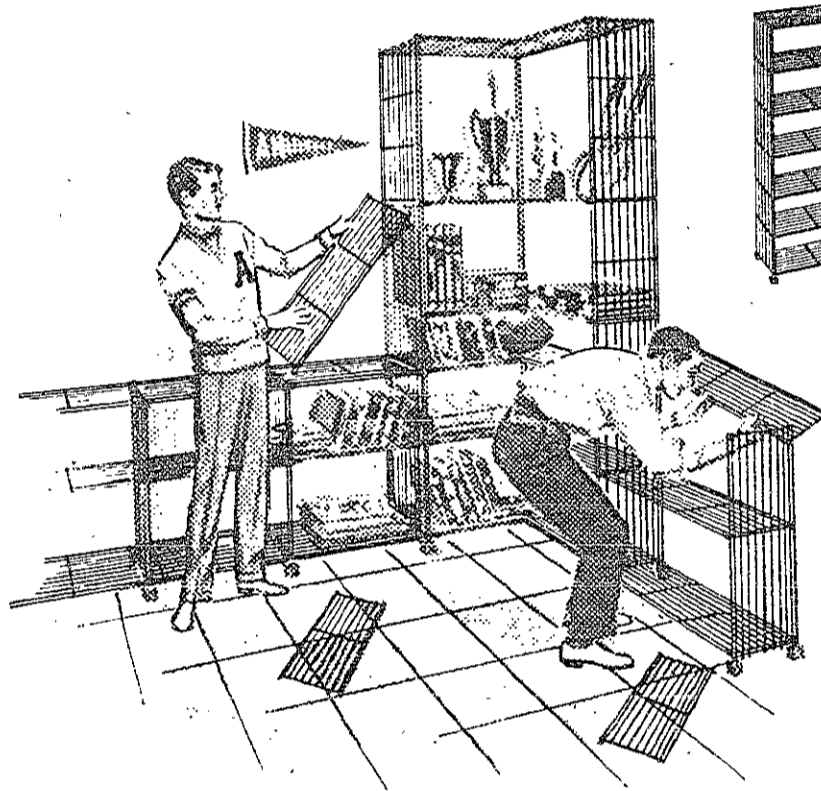
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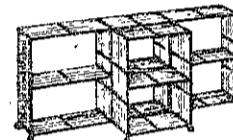
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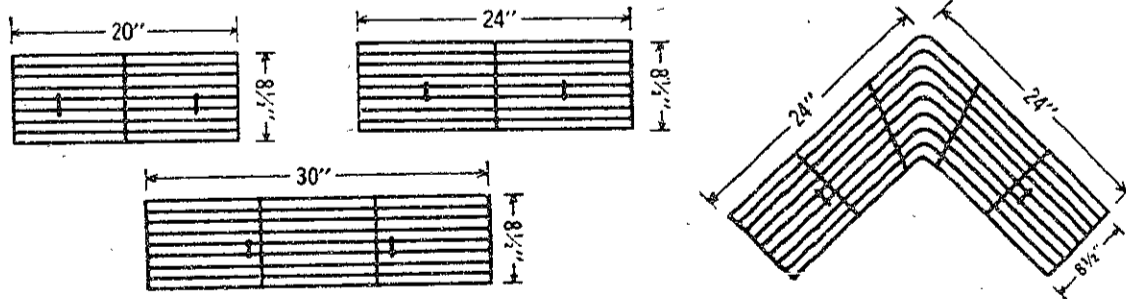
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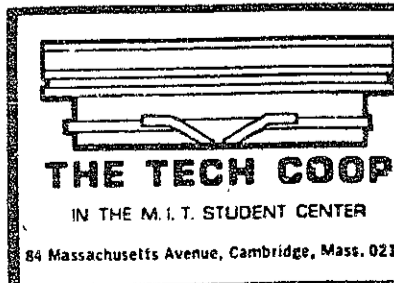
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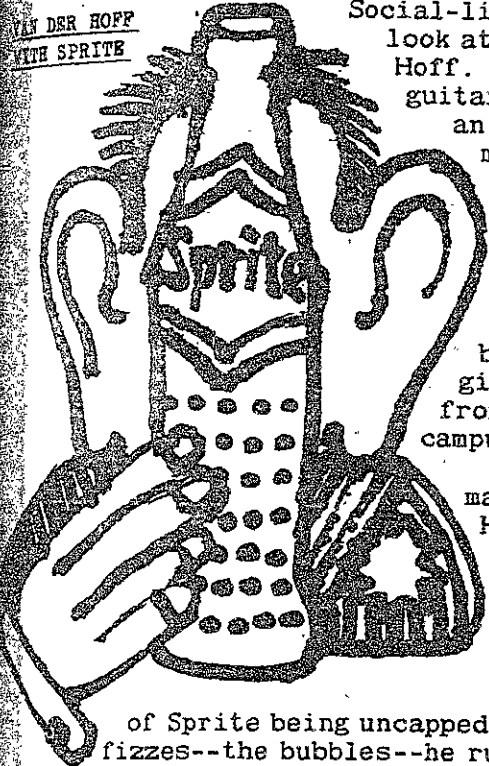
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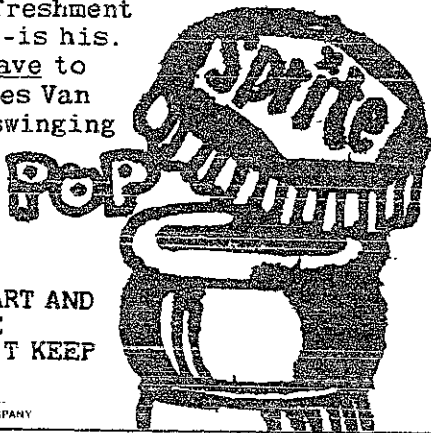


Social-life majors, take a look at Charles Van der Hoff. He can't play the guitar. Never directed an underground movie. And then look at his ears! A bit much? Yes! But--Charles Van der Hoff can hear a bottle of tart, tingling Sprite being opened in the girls' dormitory from across the campus!

What does it matter, you say? Hah! Do you realize that Charles Van der Hoff has never missed a party in four years? When he hears those bottles

of Sprite being uncapped--the roars--the fizzes--the bubbles--he runs! So before you can say anti-existentialism, he's getting in that tart, tingling, slightly tickling taste of Sprite. And delicious refreshment as well as a good time--is his.

Of course, you don't have to have ears as big as Charles Van der Hoff's to enjoy the swinging taste of Sprite. You may just have to resign yourself to a little less social life.



SPRITE, SO TART AND TINGLING, WE JUST COULDN'T KEEP IT QUIET.

MIT and Harvard plan joint life-sciences work

By David Hfeld

MIT and Harvard University have joined forces to explore the various applications of their complementary resources in the life and health sciences. The two institutions will seek opportunities for collaboration in basic and applied medical research, education, and in medical care.

In recent years, biochemistry and molecular biology have become of primary importance for basic medical research. While this trend is likely to continue, medical progress will remain de-

pendent on further advances in instrumentation and technology. Indeed, many fruitful areas of cooperation between the biological and physical sciences remain untapped.

The purpose of collaboration is to utilize the sciences for the benefit of society. President Johnson pointed this out when he said, "Rising from the scientific base the super-structure of technology relates to the imaginative and economic application of ideas to human needs. . . . We must find ways to place new emphasis and attention on the systematic na-

ture of large-scale human uses of technology.

Joint Liaison Committee
A Joint Liaison Committee of Engineering and Living Systems
(Please turn to Page 11)

Minut research planning extension of health work

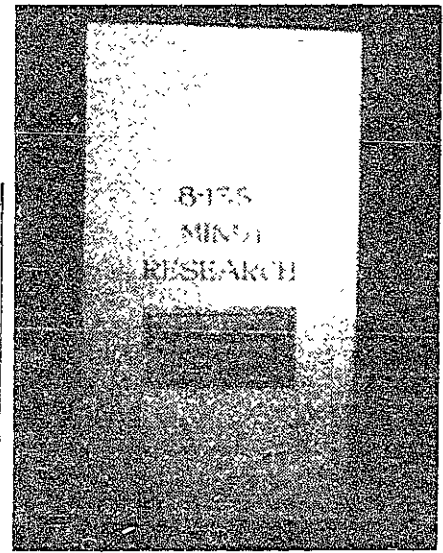


Photo by Bill Ingram

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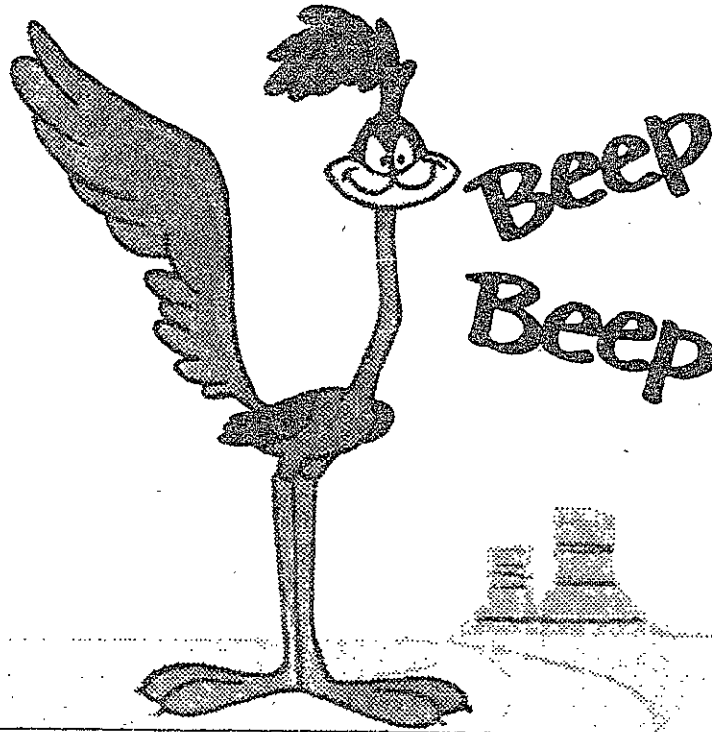
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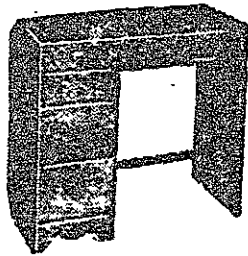
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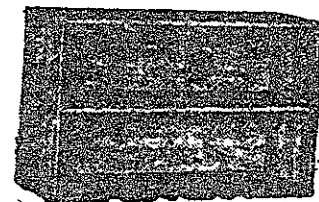
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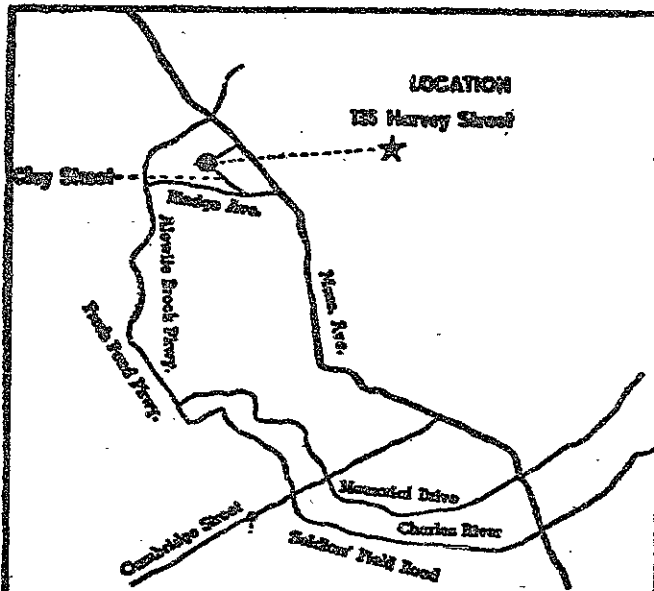


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ME design course seeks crime prevention devices

Professors in the MIT systems engineering course have turned during a break-in without tipping off the would-be burglars. crime fighting into an educational experience for neophyte design engineers. Some fifty junior year students in 2.731, "Engineering Design," were required to come up with ideas and designs having to do with crime detection, prevention, and law enforcement.

Some of the ideas

Products of the course, which exist only as design drawings, included: a device that would make an electric typewriter scream for help if anyone attempted to steal it, a revolving door that would trap bank robbers making a get-away, and a wiring system for doors and windows

that would silently call police during a break-in without tipping off the would-be burglars.

Mann leads course

The course is offered by the Department of Mechanical Engineering's Design Division, headed by Professor Robert W. Mann. The teaching is done by a team of professors, headed by Professor Igor L. Paul, assisted by Professors Mann, Frank McClintock, Herbert Richardson and Thomas Sheridan. Each year the subject area chosen is different. For example, previous classes have wrestled with automobile safety and inter-city transportation problems.

New ideas sought

Sports car magazine visits MIT

With the domestic automobile industry under fire from many quarters for failure to produce engineering progress in safety and performance and sports car manufacturers continually looking for ways to improve their vehicles' performance, it is hardly surprising that many automotive people are "discovering" the value of applying scientific principles to practice problems. Recently Sports Car Graphic magazine visited the Institute and found a rich source of new ideas on automobile design.

Complete design course

In its October issue, SCG covers many on-campus automotive manifestations of the "MIT way of thinking." Undoubtedly one of the best sources of advanced vehicle design in the country is Professor E. Eugene Larrabee's subject 2.618, Automotive Vehicles. Each year, stu-

dents in 2.618 tackle a different problem in vehicle design. Their most recent project, the MIT-X, was a high performance luxury sedan designed for 100 mph cruising on superhighways. Powered by a ram tuned, fuel injected, overhead cam V-12, the MIT-X was designed with as many of Professor Larrabee's students' original engineering solutions as possible. Whenever possible, conventional automotive practice was scrapped in favor of a better design.

MITSCC receives recognition

The Institute's unique sports car club also received substantial coverage. Understandably more technically oriented than most similar organizations, the MITSCC enlists course VI men to design such equipment as timers for its competitive events and has many members who have completed substantial modifica-

tions on their own cars.

Precision at Sloan

No coverage of automotive progress at MIT would be complete, however, without the inclusion of the principal source of some of the most exacting work done in the automotive field: the Sloan Automotive Engine Laboratory. Although the number of variables involved in the operation of an internal combustion engine is enormous, virtually all of them may be controlled on the many test engines in the Sloan Lab.

The head of the Sloan Lab, Professor Augustus Rogowski, utilizes these excellent facilities for elementary and advanced classes in engine design, thesis work, and a freshman seminar.

Perhaps to the dismay of the builders of backyard specials and cut-and-try Detroit engineers, automotive design is being turned into a science at the Institute.

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High-speed trains studied by HSGT

A report summarizing research at MIT on high speed ground transport (HSGT) has been submitted to the US Department of Transportation.

The report covers 19 research groups and 27 individual papers on several aspects of HSGT: scheduling, terminal location, control and switching; vehicle suspension systems; propulsion; vehicle and tube aerodynamics; and guideways.

HSGT problems

Research on HSGT, now in its second year at MIT, has already discovered several new problems related to the 200-300mph system. Among them are the need to accelerate the train rapidly, which may call for a catapult system in the terminal; the problem of tunneling through several hundred miles of solid rock; and the poorly understood aerodynamics related to tubes and tunnels. Moreover, tubes near ground level may be shifted by earth movements, so the tunnels planned must be deep underground.



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Multi-media show

Movie uses Underground



Members of The Velvet Underground, the hard rock major label recording artists, are (left to right) John Cale, Lou Reed, Sterling Morrison and Maureen Tucker. The Velvet Underground will appear on stage at the Savoy Theatre, backed by the psychedelic effects of Great Eastern Lights, preceding four performances of "The Happening" starring Anthony Quinn.

By Jack Donohue

"The Happening," a comedy starring Anthony Quinn, will open tonight at the Savoy Theatre, accompanied by an on-stage happening.

The Velvet Underground, formerly with Andy Warhol's Expanding Plastics Inevitables, will team up with David Hahn's Great Eastern Lights for four performances, September 22 and 23 at 8:30 pm and September 24 at 3 pm and 7 pm before the movie.

The Velvet Underground has cut a Verve LP. Their show has been described as "a rhythmic tidal wave of sound and light." They have appeared at the Boston Tea Party (which, incidentally, is David Hahn's brainchild). Lou Reed, who writes much of the material for the group, is the lead vocalist and lead guitar. John Cale plays electric viola piano, and organ, is a graduate of the University of Wales, and came to this country on a Leonard Bernstein fellowship. Sterling Morrison, rhythm guitar and

bass, is a graduate of CCNY. Maureen Tucker, the group's drummer, is the only female drummer to achieve prominence. The Great Eastern Lights, formed by David Hahn, an ex-MIT student, has a staff composed of MIT students. Mr. Hahn's studies of neurophysiology at the Institute prompted his interest in multi-media stimuli, such as his light show affords. His show will employ, among other things, twelve movie projectors.

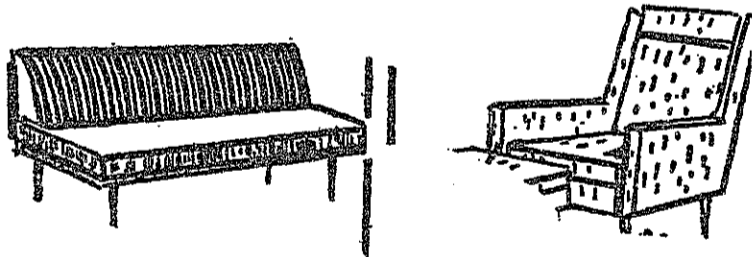
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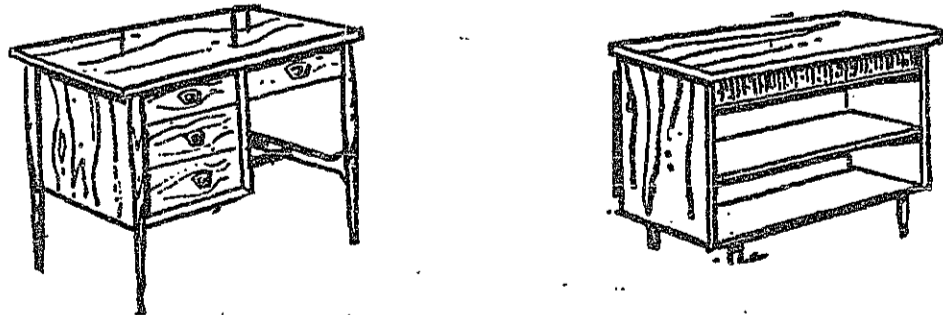
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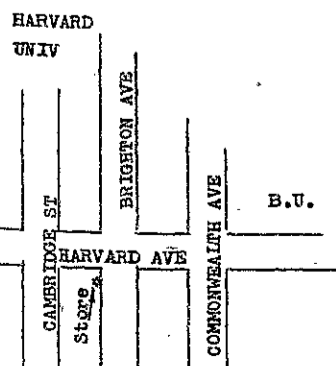
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Mass Electric Media also included in 'Happening'

(Continued from Page 9)

Tea Party first venture

The Boston Tea Party was his first venture in this area, but as he said in an interview with Steve Sesnick, the Velvet's manager, he felt that the Great Eastern Lights would afford him more freedom to express his ideas, among them, criticism levelled at contemporary American movies. One sequence of slides concerns the classic suburban status symbol, the automobile.

The Mass Electric Media Organization, another MIT staffed enterprise, headed by Jack Bernstein, a graduate psychology major, will also participate in the show. Mr. Bernstein has, in the past, written a column for The Tech, "The Avant-Garde Scene."

Steve Sesnick said that after these performances with the Great Eastern Lights, the group would continue to record, but make few public appearances. He felt the Expanding Plastic Inevitable had served its purpose, and that they would not continue with it. They are currently working on a second album, which will con-

tain eight or nine cuts, including a 17½ minute selection called "Searchin' (For My Mainline)," a satire on drug addiction. Their first album contained a song called "Heroin," which portrayed, with a throbbing rhythm, the reactions of a heroin addict. Unlike acid rock groups, like the Grateful Dead, they do not feel the need for drug use, and find their music sufficient to expand the mind. Other sections on the album include "Gift," a musical narrative, "White Heat," and "If She Comes Now."

When questioned as to future appearances, Mr. Sesnick said that, if they appeared in Cambridge, they would like to appear at MIT.

400 MEV accelerator

Work begins on Middleton LINAC

Initial work has started on fabricating equipment for a 400-million electron volt linear accelerator for Middleton in Essex County, Massachusetts, and site construction is expected to begin early in the fall.

Contract awarded

The US Atomic Energy Commission (AEC) has issued a letter contract with MIT for construction and operation of the LINAC, and MIT has, in turn, awarded a \$1.5 million contract to Energy Systems, Inc., Palo Alto California, for fabrication of the LINAC's radio frequency system.

Physicists from MIT and other scientific institutions will use the high intensity beam of electrons generated by the instrument to


investigate the structure and properties of atomic nuclei.

Cost shared

The total cost, estimated at \$5.6 million, including land, will be shared by MIT and the gov-

ernment. In addition to providing the land, MIT will contribute more than fifteen percent of the total expenditures. Coordination of all activities will be the re-

(Please turn to Page 11)



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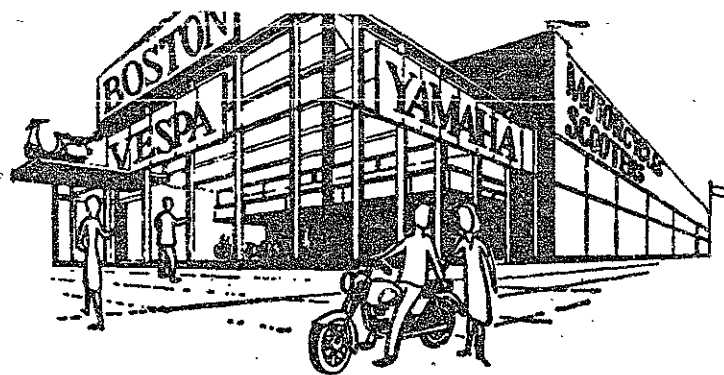
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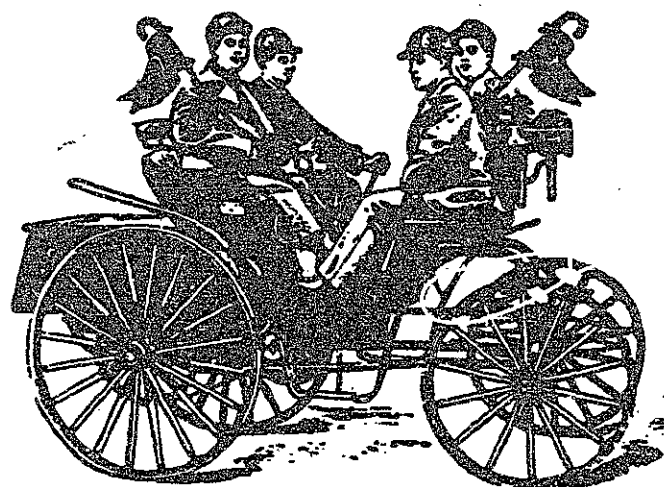
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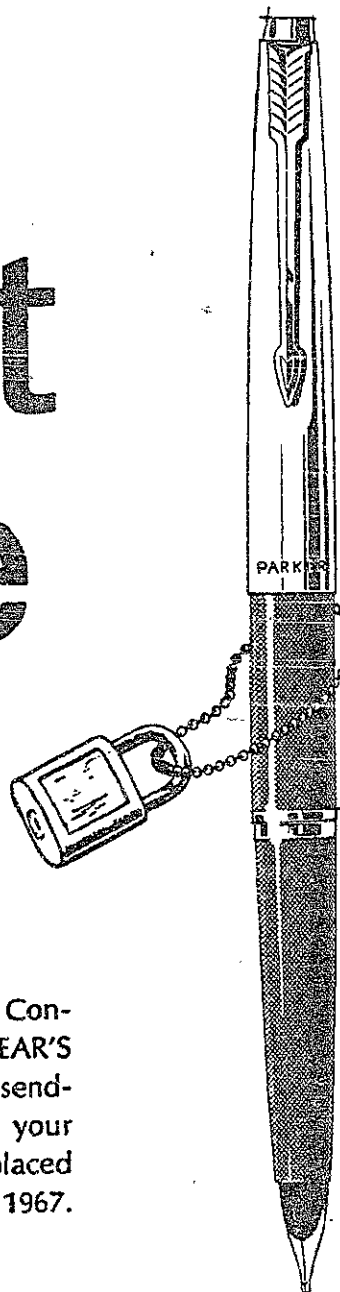
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Technology to aid medical research

(Continued from Page 7)

has been established with sub-committees focusing on three areas in the fields of medicine and health — research, education and medical care. The members of the Joint Liaison Committee from MIT are Provost Jerome B. Wiesner; Gordon S. Brown, Dean of Engineering; Irwin Sizer, Dean of the Graduate School; Prof. Walter A. Rosenblith, Department of Communication Biophysics; Dr. Albert O. Seeler, Medical Director and Head of the Medical Department; Prof. Murray Eden, Department of Electrical Engi-

neering; and Philip A. Drinker, Department of Mechanical Engineering.

Plan of operations

The Center will seek to apply operations research and computer automation to increase the efficiency and precision of hospital functions from laboratory testing to drug administration. New analytic instruments for the measurement of body functions will simplify the physician's diagnosis.

Artificial organs

The Center will work on the development of machines physically attached to and immediately concerned with the life or health of the patient. These machines may be in the form of an artificial organ, such as a kidney; a feedback servomechanism for automatic control of such physiological functions as blood pressure; or a sensory aid to help the blind to read.

Precious collaboration

Collaboration in research between Harvard and its affiliated hospitals and MIT in the medical

area is not new. Among recent examples of such joint efforts are: the study of neural mechanisms of hearing, the investigation and design of intensive patient care units, the development of more efficient membranes to use in such devices as the artificial kidney or in heart-lung machines, studies on the use of computer technology for medical diagnosis and computer analysis of laboratory testing.

Med school applicants to hold advisory meeting

There will be a meeting of fourth year students and all others planning to enter medical school in September 1968 to discuss medical schools and other matters related to making application for admission to medical school. The meeting will be held on Thursday, September 21, at 7:30 p.m. in the Bush Room (10-105). Members of the Premedical Advisory Committee will attend the meeting.

Middleton LINAC is to be operated by a 40-man staff

(Continued from Page 10)

sponsibility of MIT with the AEC handling the construction of the required buildings and facilities, and the MIT Laboratory for Nuclear Science (LNS) acquiring all of the technical apparatus. The director of the LNS is Professor Peter Demos, and the LNS project manager for the LINAC construction is Paul Reardon. Schedules call for the LINAC to be operational in mid-1969, with LNS directing the research program when the machine becomes functional.

The LINAC

The accelerator proper will be a specially designed copper tube six hundred feet long, which is fed at intervals with bursts of radio frequency power from high power transmitters similar to those used in radio and radar applications. The accelerating tube, or waveguide, will be contained in an underground vault six hundred feet long, ten feet high and ten feet wide. At the end of the linear accelerator there will be a beam switchyard complex to send beams to several experimental stations. Laboratory and office space for the scientists, engineers and technicians using and operating the facility will also be provided. Portions of the complex will be underground, and some of the experimental areas will be covered with concrete.

Of modest size

The energy of the Middleton LINAC, approximately 400 million electron volts, will be modest compared to some recent electron accelerators. The circular MIT-Harvard Cambridge Electron Accelerator has an energy of six billion electron volts and the two-mile long LINAC recently completed at Stanford University has an energy of 20 billion electron volts.

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Dr. Francis Bitter dies at 65 in Hyannis home

Dr. Francis Bitter, professor of the Department of Geology and Geophysics and one of the world's leading authorities on magnetism, died last July 26 in Hyannis, Massachusetts after a prolonged illness.

Born the son of the distinguished sculptor, Bitter graduated from Columbia University in 1924, and received his Ph.D. in 1928. After studying under Dr. Robert Millikan, Bitter joined the Department of Mining and Metallurgy. In 1939 Dr. Bitter achieved the first sustained strong magnetic fields (100,000 gauss) using a magnet he had designed.

During the war, Dr. Bitter worked on degaussing procedures for ships, and the development of magnetic mines and torpedoes. After the war his work on the optical effects of microwave resonance led to the development of the laser by Dr. Alfred Kastler. Dr. Bitter participated in the design of the National Magnet Laboratory, and then joined the Department of Geology and Geophysics to investigate terrestrial magnetism and the earth's envelope of plasma.

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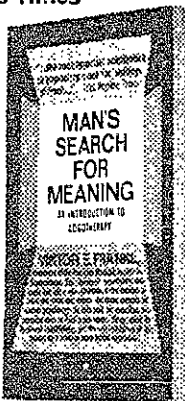
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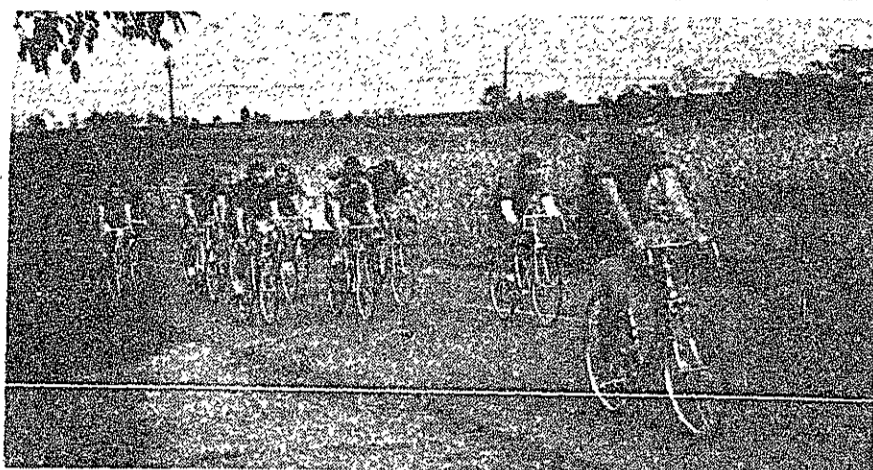
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By Tony Lima



Cycling is one of the many club sports engaged in around Tech, both for the competitive aspects and the enjoyment. Rugby, gymnastics, water polo, and many other sports are maintained as activities.

"Sports at MIT?" asks the entering freshman when he first encounters the extensive athletic program available at Tech. "But I thought all you did was study." This reaction is typical of the most popular misconception about the MIT athletic program.

Varsity, freshman, club and intramural teams in almost every imaginable sport greet the freshman entering the MIT sports scene for the first time. With everything from varsity crew through intramural ping-pong to rugby and cricket, the diversity of athletic activities at Tech is only matched by the diversity of



Soccer is one of the more popular fall intercollegiate sports in which the inexperienced player may participate.

In six sports

Spring captains named

By Stan Kask

As the term came to a close last spring, MIT announced the names of seven athletes chosen to captain this year's baseball, lacrosse, tennis, track, golf and crew teams.

Leading the engineer nine on the baseball diamond will be Rick Young. Rick, a senior, hails from Berkeley, Missouri. For the past two seasons, Rick's hitting has tormented opposing pitchers to no end. In his sophomore year, he hit .296 and last season Rick finished with a classy .348 average which placed him in top contention for the Boston Intercollegiate League batting title. He was chosen all-star second baseman from the Boston area his sophomore year. In addition to his hitting ability, Rick sports one of the best fielding averages on the team. He moves his 5-10, 175 lb. frame so swiftly across the infield that very few balls sneak through. Rick's aggressive play and spirit will be valuable in Tech's attempt to improve last season's 6-9 record.

Tennis co-captains named

Steve Deneroff, a 5-8, 140 lb. senior from New York City, and Carl Weissgerber, a 6-1, 180 lb. senior from Williamsville, New York will captain the tennis team during its fall and spring schedules.

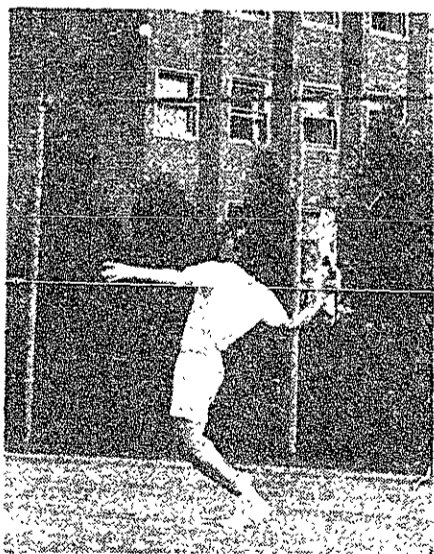
people and interests in these activities.

The intercollegiate program, though not highly publicized, is one of the largest and most varied in the nation. With at present eighteen intercollegiate teams, MIT is tied with Navy for the largest number.

The sports program at Tech is designed for student participation and not to gain national prominence for the school. That type of program would require extensive recruiting and athletic scholarships, both of which are not within the MIT athletic philosophy.

With an athletic philosophy such as this, you will find, of course, that the comparative strength of the teams will vary from sport to sport. And, as a result, some teams such as crew, lacrosse and sailing, compete against nationally ranked teams, while others find competition among the smaller colleges in New England. This provides strong, interesting competition for each MIT team.

The great abundance of publicity for technological achievements made at Tech tends to overshadow the sport picture to such an extent that one is led to believe that sports take a back seat and are not really taken too seriously. One look at the crew rowing in the snowy spring or cross country meets in the rain will dispell any such misconceptions. MIT athletes are all out working hard to win and consider athletics to be as important a part of their school lives as studies.



Steve Sydorik '68 (right), captain of the outdoor track team, clears the bar in the pole vault. Steve Deneroff '68, co-captain of the tennis team, shows his form with a serve. Five other captains were elected last spring.

Deneroff showed tremendous improvement last year moving up from sixth singles to first singles. Weissgerber played second and third singles last year and during his sophomore finished with an 11-7 record, better than any other member of the squad.

Together, Deneroff and Weissgerber made up one of Tech's best doubles team and many important matches were decided by their fine play. The racketmen should improve last year's 7-6 record.

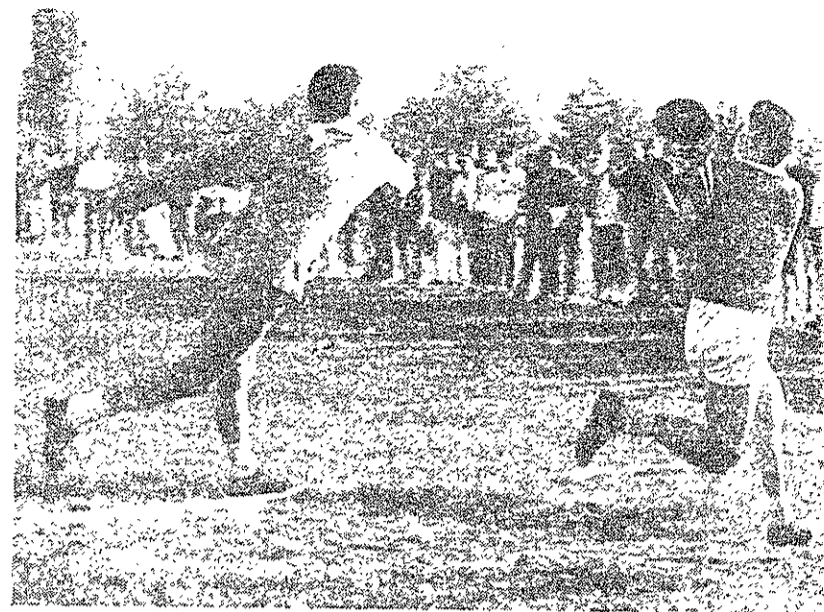
IM football opens September 22

By Pat Green

The 1967 Intramural football season is slated to start on Saturday, September 23, 1967. Preliminaries for the season were gotten underway last week with a letter sent to all living groups which explained the procedure for entering a team in the competition. Also included were some notes on the recommendations of the special football committee headed by Dave Schramm '67, which will be implemented this fall.

Among these changes will be a mandatory requirement for mouthguards. Changes in playing procedure include calling all dropped kicks and fumbles dead as well as a rule preventing players from crossing the line of scrimmage on called punts until the kick is off. In addition, referees are being instructed to allow absolutely no clipping or forearm shivers. Finally, referees are empowered to eject any player from the game who displays any type of unsportsmanlike conduct or disrespect for the officials.

One of the greatest problems intramural football has suffered from in the past has been lack of referees. To correct this situation, every organization that enters a team this year will be required to submit the name of a referee along with its team roster. In addition, a recruiting program is being organized which will hopefully attract new referees from among the freshmen as well as the upperclassmen. An orientation session for referees will be held on Wednesday, September 20



Intramural football always attracts large weekend crowds; the big games. Last year's champions, Sigma Alpha Epsilon, will be defending their title with a team reported to be much improved over last year's.

at 8 p.m. in the Varsity Club Lounge in the Armory. All referees are required to attend, and all interested athletic chairmen and players are encouraged to come also.

Injuries investigated

According to the report of the Medical Department for 1966-67, Intramural Football was responsible for a number of serious injuries to players. Included were three fractures, five dislocations and one concussion. The IM Council felt that injuries of this nature were inconsistent with the spirit

of IM football. In order to determine the causes of such injuries, the IM Council in conjunction with the Medical Department will collect data on injuries through the use of a standard injury form issued to all referees. This form will be filled out at the time of the injury. It is hoped that effective changes in procedure can be recommended from an analysis of these statistics.

New playoff schedule

The league structure will be approximately the same as last year. However, a new playoff schedule has been arranged which will hopefully make the playoffs more interesting for all concerned. The change will involve the bottom four "A" League and top four "B" League teams in a playoff for fifth through twelfth places.

All organizations that wish to enter teams should turn in their team, referee and roster forms to either the IM football manager or the IM secretary along with a ten dollar deposit by 4:30 p.m. Monday.

Barry named Assistant to Director of Athletics

Director of Athletics at MIT, Ross Smith, has announced two changes in the Tech athletic department effective this fall. John Merriman has retired from his duties as Assistant Director of Athletics. Mr. Merriman will continue to coach the golf team and assist with the supervision of intramurals. Replacing him will be baseball and basketball coach John Barry.

Mr. Smith also disclosed that last year's varsity soccer captain and past varsity club president, Rick Gostyla '67 has assumed the duties of assistant varsity soccer coach.

Tech skaters place third in summer hockey league

During the summer, hockey players among Tech graduate and undergraduate students composed a team that entered a league at the Melrose Hockey Town, USA. Dennis McLaughlin and Wayne Pecknold coached the team to a winning season, with a record of five wins, one loss, and three ties.

This placed them third among the nine teams in the league.

The engineers were very much in contention for the league championship, finally losing in the playoffs to Arlington, which has been

easy prey for the engineers in past years, but had an 8-1 record this year.

Several Tech varsity icemen played with the local graduate hockey players. Don Bosack '67, Larry Hall '67, Teve Erickson '69, and Dennis Coleman '68 were among the varsity players who played with the graduate students. Pet Catto, Ted Madham, John Calderone, Jim Russel, Bob Patterson, Bill Jessiman, Bob McPhail, and Wayne Pecknold constituted the rest of the team.

Pecknold leads scoring

Pecknold who used to play for a AAA Canadian team, led the scoring for Tech and proved to be their most versatile skater.

Pet Catto was also an all-around good player as well as a top scorer. Outstanding play was demonstrated by goalies Steve Erickson and Stu Johnson. The players themselves sponsored the team, but the MITAA sponsored the spring and fall teams.

The summer season was preceded by a fantastic spring season in which one of the Tech teams won their league championship. For the spring season Tech was able to field two teams; the division of players for the teams was roughly determined by their graduate-undergraduate status.

Undergrads take trophy

The undergraduate team, with goalie Steve Erickson, took the championship. Scott Rhodes '69, Mike Harris '68, Claton Satow '68, Denis Coleman, and Don Bosack made significant contributions to the winning season. The graduate team, led by Dennis McLaughlin and Peter Catto, took second in a league of seven teams. Some ex-graduate student played on the graduate team.

For the upcoming fall season the Tech team will be largely made up of undergraduates. The season starts Monday for the engineers, and they will play once a week at Melrose.

The purpose of the team is to provide experience for the young varsity players, by allowing them to play with the graduate students and other experienced players.

