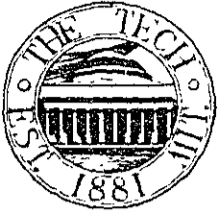


# The Tech



NEWSPAPER OF THE UNDERGRADUATES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VOL. LXXIX No. 32

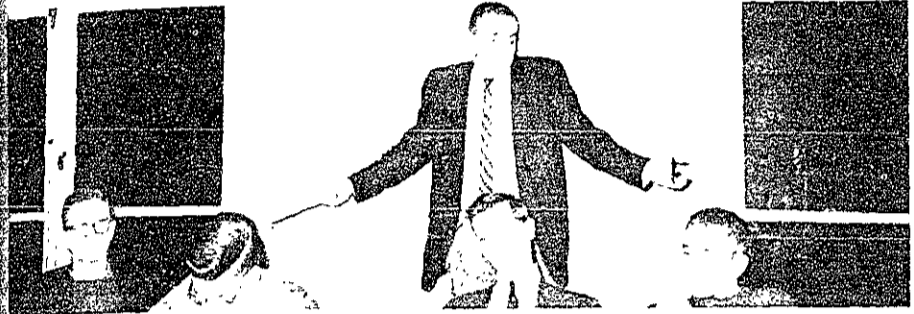
CAMBRIDGE, MASSACHUSETTS, FRIDAY, OCTOBER 16, 1959

5 Cents

## No Decision from Inscomm on NSA Junior Prom Has Elgart Fri. Night; 400 Options Sold in First Day

The MIT delegation to the 12th National Student Congress of the National Student Association presented its report last Thursday at the Institute Committee meeting. The report suggested questioning MIT's continued membership in the NSA on the grounds that the NSA is not fulfilling its purpose as a clearing house for student government.

The delegation felt that much of the time at the Congress was wasted by matters not pertinent to "students in their role as students," as designated in the NSA Constitution and as accepted by the Institute Committee. Either disaffiliation or rectification of the existing defects was recommended as the proper course of action.



At the Institute Committee meeting are (left to right), Dick Greenspan, '60, Burton House president; Terry Welch, '60, East Campus president; Carl Swanson, '60, interested observer; Paul Thompson, '60, IFC Representative; and Al Shalleck, '60, FCC Chairman.

— Photo by John Terry, '62



As Frank Tapparo, '60, Baker House President (left) makes his point in the discussion, Jim de Sola, '60, IPC Chairman, and Joe Verderber, '60, IFC Chairman, listen.

— Photo by John Terry, '62

## Astronomer Otto Struve to Lecture in K.T. Compton Program for 1959

Dr. Otto Struve, one of the world's foremost astronomers, has been appointed Karl Taylor Compton Lecturer here and will be in residence in Cambridge during November, Dr. Julius A. Stratton announced.

Dr. Struve will be the second scientist to come to MIT as Compton Lecturer, the first having been Dr. Niels Bohr, eminent Danish physicist who gave a series of lectures in the fall of 1957. The Compton Lectures were established in honor of the late Dr. Karl Taylor Compton, former President and Chairman of the Institute.

Dr. Struve is director of the new National Radio Astronomy Observatory, at Green Bank, W. Va., where a giant radio telescope is being built by Associated Universities, Inc., under contract with the National Science Foundation. MIT is one of nine universities sponsoring the non-profit corporation. The new telescope is expected to make observations of the universe far beyond the range of optical telescopes.

Six lectures on "The Universe" will be given by Dr. Struve while at MIT. He also will participate in a series of seminars with other distinguished scientists. Dates for the lectures, all to be presented at 8 p.m. in Kresge Auditorium, are:

- November 3 — The Solar System: Its Origin and Evolution
- November 5 — Stellar Evolution
- November 10 — Structure and Evolution of the Galaxy
- November 12 — Radio Astronomy
- November 17 — Binary Stars and Variables
- November 19 — Man and the Universe

Born in Karkov and a graduate of the university, Otto Struve was an artillery officer in the Imperial Russian Army during World War I and then served in the White Russian Army in 1919-1920. He came to the United States in 1921 as a student and assistant in stellar spectroscopy at the Yerkes Observatory of the University of Chicago. He was promoted through various faculty ranks and became director of the observatory in 1932, remaining until he went to the University of California in 1947. Meanwhile he had founded the McDonald Laboratory of the University of Texas, which the University of Chicago operated. He was managing editor of the "Astrophysical Journal" for five years, president of the American Astronomical Society for three years and president of the International Astronomical Union for three.

Dr. Struve has been particularly active in studies of double stars and is a proponent of the theory that planets have been produced by stellar evolution rather than great cosmic collisions or other cataclysms.

### Two-Hour Debate

The Committee debated violently for approximately two hours six recommendations by the MIT delegation to make the NSA a working organization. These recommendations were revised several times during the meeting. A five-man committee tried to adapt the recommendations to please the majority of members. But when the amended resolution was put in the form of a motion, it failed to pass the Committee.

Investigation of the advantages and disadvantages of a small coalition of colleges of equal prestige was proposed and tabled.

### National Officer Asked

The Committee decided to hear from a national NSA officer before proceeding any further.

Nominations were also opened for Parents' Weekend Committee Chairman. Nominated were Jerry Grossman, Fred Jancewicz, Bill Strauss, and Steve Goldstein.

This committee will be in charge of preparations for the Parents' Weekend program, to take place this Spring.

### Work Program in Africa

## International Project for Students

MIT students are being offered the opportunity to spend a summer in Africa under a program designed to bring together North American and African students in a co-operative venture. This project is now being studied by MIT's Center for International Studies to evaluate the impact and results of the operation in the two continents.

The project, titled "Crossroads Africa", will send 150 students from the United States, Canada, and Mexico to countries in West Africa, where they will undertake work projects in local villages. The students, split into teams of twelve, will do such work as building schools, churches, dams, and other needed utilities.

### Africans Will Participate

African students and village natives will also join the teams, and it is hoped that this co-operation will lead to better understanding. One African student has remarked about the venture: "Your visit has certainly been a landmark in the lives of the villagers. In a country where birth registration is not yet common, illiterate parents may find themselves counting the ages of their children from the year the American friends came to build their school."

### Cost May Be Subsidized

The trip will leave from New York on June 14, 1960, and return around the end of August. The costs for the entire trip, including all transportation, fees, and boarding costs, come to \$875. Jim de Sola, '60, International Program Committee chairman, remarks on this that "at present, however, negotiations are going on at MIT to relieve the financial burden for those who qualify and are accepted."

### More Than A Vacation

It is to be fully understood that a more than casual interest in local and international affairs is to be had by those wishing to participate. Crossroads Africa is not a pleasure summer trip alone, but one of study and hard work. The results, however, will be more memorable than any vacation trip ever had.

Those interested in the project should call de Sola at CO 6-2908, or attend a meeting on Tuesday, October 20th, at 5:00 P.M. in the Library Lounge. The project will then be discussed with its MIT sponsors. All undergraduate and graduate students are qualified.

Full plans for the 1961 Junior Prom, as announced by the JP Committee, now include Larry Elgart and his Orchestra at the Statler on Friday night and the Kingston Trio in the Armory on Saturday. Over 400 options had been sold as of last Wednesday, which was only the first day of sales. The Committee anticipates capacity crowds at both the Friday and Saturday night affairs.

The Friday night formal at the Statler will feature Larry Elgart with vocalist Carol Sloane. Additional entertainment will feature the Princeton Nassoons and the crowning of the Junior Prom Queen.

### Field Day

On Saturday afternoon, the traditional Field Day events will be staged for both the JP'ers and the rest of the MIT Community. In addition to the Freshman-Sophomore contests, there will be a varsity soccer game with Dartmouth and the Schell Trophy sailing regatta on the Charles.

Saturday evening will see the Kingston Trio holding forth at the Armory. The armory has been substantially redecorated for this event: curtains have been hung from the walls, the floor covered, tables and chairs put in, and a speaker system set up to carry the entertainment to all parts of the hall.



Vocalist Carol Sloane

Sents will be arranged in a semicircle around the stage, so that everyone will be reasonably close to the singers. This event will be solely a concert; no dancing is planned on. Soft drinks will be sold in the Armory.

### Individual Activities

In addition to these planned events, parties are being arranged by all living groups to fill the unoccupied time, and individual couples are expected to exercise their own ingenuity about arranging other activities.

The option sales, which started Wednesday, had taken in 400 sales at \$11.00 each by the time that day was over. Since only 580 couples may be accommodated in the Statler, the JP Committee expects a full capacity crowd that night. In addition, the Armory holds a total of 750 couples. Since sales of Saturday night tickets, at \$5.00 each, will begin later this month, it is anticipated that the armory too will be fully occupied.

## JP Queen Contest On; Nominations Oct. 23

All Juniors are urged to enter their JP dates in the JP Queen Contest. The queen, who will be crowned at the Friday night formal, will reign over the remaining events of the weekend.

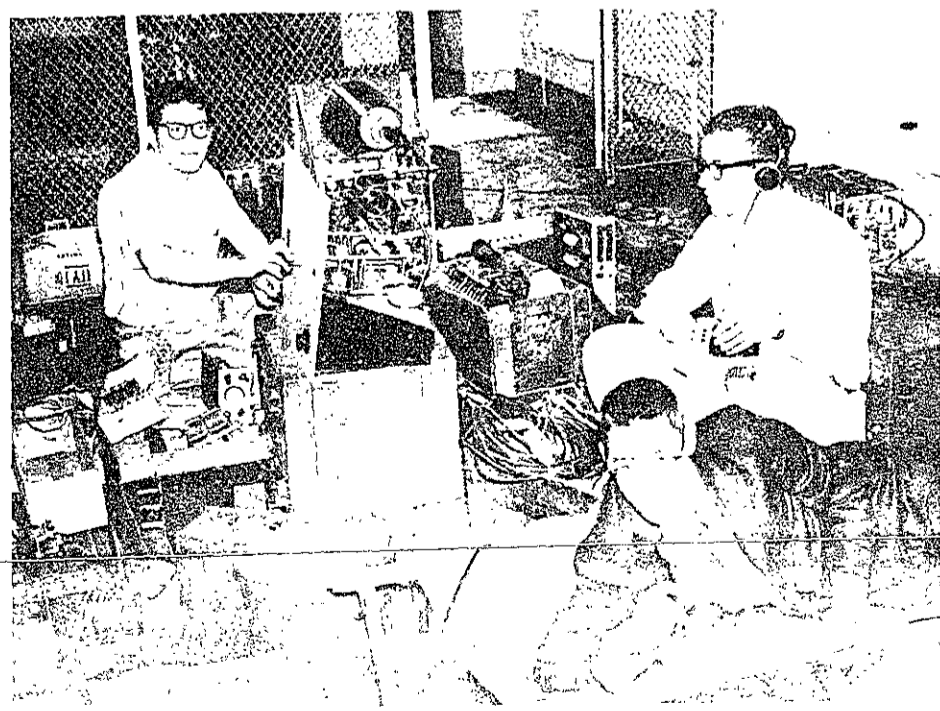
A nomination blank should be obtained at the booth in Building 10 and brought with a 4 x 5 portrait to Litchfield Lounge in Walker Memorial. This picture must be a 4 x 5 or larger studio portrait; although beach scenes, etc., are appreciated by the Committee, they cannot be used for contest judging. Any additional pictures brought in, however, will be accepted.

All applications must be in by Friday, October 23. The entire student body will elect five finalists in an election running from October 26 through October 30. The JP Committee will then select the Queen from these finalists. The contest details are being run by Dave Stare, '62, of Public Relations Committee.

Seniors who are interested in Naval Officer Candidate Programs may now make application if they are within nine months of receipt of the Bachelor Degree.

The latest information regarding opportunities in the Navy for College graduates may be obtained in the office of The Selective Service Adviser, Room 20-E-226.

## WIMX to Carry on Activities in New Area



Some members of WIMX, the campus "ham" radio station, at home in their new quarters, test their equipment.

— Photo by Ken Anderson, '63

## Greener Pastures sans NSA

Last week the Institute Committee gathered in Litchfield Lounge and chatted about the National Student Association.

Nothing of interest happened; the only result was the quite intelligent, and probably accidental, decision to let the matter ride until more information was available to the members of this key organ of student government, most of whom were ignorant of the facts and issues at hand. (See "Ivory Tower").

However, nothing was lost except sixty or seventy man-hours of time. Next meeting, with a more informed voting group, the discussion can start with a clean slate.

Most of the meeting was taken up with highly personalized accounts of the NSA's most recent annual Congress. It is undoubtedly true that the Congress abuses its position as the voice of the United States' Student (if such a voice can actually be said to exist) by passing ill-considered resolutions on everything from A bomb testing to horrible, ugly Communism (They said it was bad).

We believe that the value of NSA should be initially evaluated at the regional and campus level. What the Association can do that will benefit MIT directly is the important point, and one that was virtually left unconsidered at the last meeting. As we suggested last year, the NSA should act as a framework for conferences and other inter-campus activities. The past has shown that these get-togethers usually produce nothing more than some socializing; the diversity of NSA membership allows any given conference to be attended largely by Framingham State Teacher's girls, Simmons girls and the like, but very few people with problems similar to MIT's.

If Inscomm wants to exchange ideas with other student groups, which is a good idea if done correctly, it could organize conferences on specific problems with schools of comparable size and makeup. This would certainly be more effective than the NSA sponsored events and cheaper, too. It costs about \$1000 annually for the privilege of belonging to the NSA.

We hope the Institute Committee will waste no more time on this issue; NSA is distasteful on the National level and ineffective on the local. No good can come of it. As is, it not only does not aid in inter-campus relations, but also stifles them by burdening the member schools with an ineffective means of communication. No real "prestige" is gained by being a part of a national pressure group when the makeup of the higher educational system in the U. S. is not conducive to the expression of any sort of unified opinion.

Perhaps the present student government is imaginative and ambitious enough to promote some useful and effective means of intercollegiate communications. But first, and quickly, let us disaffiliate from a worthless organization called the National Student Association.

## Ivory tower

We went to an Institute Committee meeting the other night and watched an amazing spectacle. It was a magnificent example of how to approach a problem and attempt to solve it. What is to be the relation between MIT and the National Student Association was the question being considered, but only two voting members knew anything about NSA. After basking in flowery generalizations and floating in the ether never broaching basic questions, the majority of Institute Committee very wisely defeated the motion on the floor and deferred all considerations of NSA until more information would be available. These wise people we applaud, though we still wonder why they didn't ask pertinent questions and demand logical, well grounded answers.

What could be the cause of such an absurd performance? We would suggest that its roots lie in the political naivety of the Institute Committee. Some people calling themselves politicians seem to think that a bag of parliamentary procedure tricks with which to ram through favored motions and to block objectionable ones is the principal tool of the good politician. We believe there are more important and significant tools. Would a politician not be good if he possessed a probing logical mind asking the right questions and delving into all aspects of a problem? Would he not be good if he chose a solution to the problem from the many suggested which best met the needs of the group he represents? Would he not be good if in addition to incisive thought he possessed lucid speech?

If the above mentioned Institute Committee meeting be an accurate indication of the political sophistication of the members, we can only say that the supposedly astute politicians of the campus do not know very much about traditional political techniques. For example, it is a time honored and proven technique to discuss and debate the issues before the formal business meeting. As the members will have mulled the issue over a bit and come to some kind of conclusions, the meeting will contain thoughtful and thought provoking comment instead of aimless excursions as ideas and facts are slowly ordered and com-

piled into something meaningful during a long, tiring session.

Another traditional form of democratic government is the loyal opposition. While Inscomm has no formal opposition party, it certainly has difference of opinion. Opposition to motions should be encouraged, organized and well presented. Opposition brings motions under scrutiny, forcing logical thinking on both sides and eventually an equitable and wise solution to the problem considered in the motion. (At least this is the theory.)

In our opinion the individuals on this Institute Committee have a great deal of intelligence and ability. However, Inscomm is just what its name states — a committee. As a committee its performance depends more upon its function as a committee composed of many components working together than upon the performance of the individuals. The above article explicitly and implicitly suggest a few ways in which a committee may improve its performance. There are many more. We only hope that the members of Institute Committee develop the political awareness and sophistication to utilize their potential wisely and effectively to the benefit of the undergraduates and of all MIT.

Carl Swanson '60

## review

### The Glass Menagerie

"The Glass Menagerie" by Tennessee Williams is one of the authors early works and as such it emanates a certain freshness and simplicity which is hard to find in his more elaborate and later plays. Dealing with people as they are, staying away from a complicate and intricate net of motivations, the play in its naivety gains clarity of expression, and strengthens the bounds between spectators and actors. The author himself calls it a sentimental, unrealistic play, but in a sense it is closer to our viewpoint of reality than the "realistic" plays themselves. By its certain poetic appeal, by its wide range of emotions, by its possibilities as a "stage-play" the MIT Community Players chose "The Glass Menagerie" as the opening show of their season which began last night.

As the years pass by and the shows succeed each other at MIT we are more and more lead to the impression that the technical ability of our designers has already passed the stage of pure amateurism. This pompous comment introduces what struck us as a main achievement in the history of the Community Players; as well the Set Designs by Beverly Glemser as the Light Design by Paul Brumby are excellent. In a miraculous show of technique and craftsmanship, supervised by John Gilland, the Little Theater last night was the scene of an imaginative and well-constructed set, and an astonishingly tricky lighting, and both stand out as the main features of the show.

The acting however did suffer a little from an hesitant pace, where the magnificent jobs of Joel Oberly, as Amanda, and Joan Duffield, as Laura, contrasted with less powerful interpretations by Tom Doherty as Jim, and Dick Hogan, as Tom. Dick Hogan seemed a little stiff, a little insecure; his Tom is too submitted to the will of his mother, and the final reaction at the end of the play lacks a necessary build up. As for Joan Duffield she "was" so fragile, so much made of glass that when Jim takes her in his arms and begins to dance one is afraid of what will happen to her: a very sensitive characterization, indeed, and one that makes the scenes between Amanda and Laura a true delight, unmatched at any other time during the play. As for Tom Doherty, he lacked a certain dynamism which is essential to his character; after all, already in high school, Jim "seemed at any time to be on the threshold of breaking the laws of gravity"; this lack of dynamism is particularly apparent when Jim is supposed to give advice to Laura, and literally "inject" confidence into her.

The direction by Bill Harris is fair, giving a comfortable equilibrium of movement. But it failed in giving more shape to the characters, transmitting some more of the depressing feeling which emanates from Tennessee

Williams play. It seems as though Bill Harris was more worried about the movement on stage than the characters who originate them. But he must be complimented on the strong coordination of the technical and non-technical aspects of the production.

"The Glass Menagerie," by its exciting design and by the high quality of its feminine acting opens very successfully the Community Players season.

## cherchez la femme

If you think you can stand going to another mixer, then this weekend is probably your last chance to meet a girl for JP weekend. The schools planning mixers for Friday evening are certainly diversified in interests, enough to satisfy any Techman's dating tastes.

If you're looking for a party girl or "anything for kicks" date, Lesley college is the place to go this Friday. The girls at Lesley are attractive and personable, but the school's proximity to Harvard makes competition at these mixers unusually keen. Refreshments and an orchestra are parts of every Lesley acquaintance dance, so is a fifty cent admission charge. The dance will be held at White Hall, corner of Oxford and Everett Streets in Cambridge beginning at eight o'clock.

If you don't mind a thirty minute drive out Storrow and Rt. 16 and you enjoy dating nurses, then try the Newton-Wellesley Hospital's School of Nursing mixer. Many Techmen have found excellent dates here in past years. Allen Riddle Hall is the place at eight o'clock and the price of admission is seventy-five cents.

After giving an excellent mixer last Friday, the Wheelock girls decided to continue the practice this weekend. MIT students who attended their other mixer were quite pleased with the girls they met and the low girl to boy ratio. Dancing begins at Riverway-162 at eight o'clock. No charge for admission!

Brandeis is finally getting in the mixer craze, for Hamilton and several other dormitories are sponsoring open house this Friday evening. One nice thing about Brandeis mixers is that they continue until 1:30 a.m. rather than the usual midnight limit. A car is definitely a necessity when dating at this school, but the girls are eager to meet men from other schools.

If you're without a car and stranded in town, it might be wise to drop over to the New England Mutual Hall for the Fisher Junior College mixer. Fisher is primarily a secretarial school similar to Kathy Gibbs, and their dormitories are conveniently located on Beacon Street. Often overlooked because of the many other girl's schools, these girls are very pleasant and look their best at acquaintance dances.

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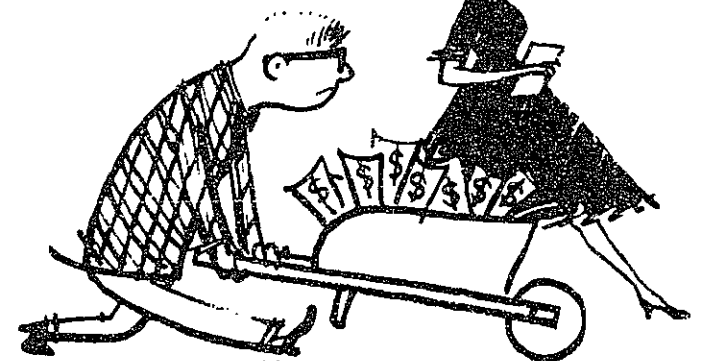
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A Modern Morality Play

# Tech Show Goes to Hell for Its Plot

A darkly funny Tech Show has been planned for the 1960 presentation, according to writer Jean Pierre Frankenhuis '61. The plot has already been completed, and the script and musical cues will be finished by the end of the next week. This early completion is somewhat of a record for Tech Show, which has a tradition of unfinished scripts on opening night.

This year's show will tackle the theme of Heaven and Hell. According to Frankenhuis, two principles went into the script. First, it is going to be non-parochial, since some aspects of earlier shows were intelligible only to the MIT community. There will be no private jokes. Furthermore, there is going to be a "clean script, no cheap jokes, a consistent plot, a real characterization, and a balance of seriousness and comedy."

### Decision For Evil

This balance will be brought out in the actions of the hero, who decides, in his youth, that a choice between good and evil, i. e., between Heaven and Hell, is incumbent on him. Accordingly, he decides to go to Hell, and the best way of doing this is to methodically commit the Seven Deadly Sins. Frankenhuis is quick to point out that this story has "neither a glorifying or deteriorating influence on religion."

The hero is partly motivated to this decision by the actions of his girl friend, with whom he has a satisfactory common-law relationship, until she accused him of jealousy. He sees this as the commission of the sin of

envy, and proceeds to commit the other six.

The second act contains five scenes, each of which details the hero's attempts to sin. Each sin is interpreted somewhat unusually — for example, just as envy is jealousy, anger is interpreted as non-conformity.

### Unsuccessful Sin

Each of these scenes in the act is introduced by a walk-on tableau with placards, in which the sin is enacted in microcosm. The body of the scene then goes on to describe the hero's attempts to sin. However, with him, the sin will never work — he won't sin successfully, or he will find out that what he thought was a sin wasn't a sin after all. In the fifth scene, especially, he makes a complete mess of everything.

The third act contains the climax of the whole show. The hero states, in effect, the Hell with going to Hell. He doesn't care to try any further, since none of his attempts were successful. He thereby commits the worst sin, that of sloth, and therefore —

The result of this act to the hero is being kept a close secret by the show's writer.

To those who might question the suitability of such a theme for a musical show, Frankenhuis states: "Whoever has any imagination can easily see the comic possibilities in the situation, and whoever looks for Freudian symbolism or other intellectual games will be able to find it; however, it is not my intention to make anything but a musical comedy out of Tech Show."

# Baker Memorial Fund Delay Grant Until Further Requests Received

The Baker Memorial Foundation Committee in a meeting last Thursday decided to postpone a decision on its annual grants in order that it may hear additional requests. The only request currently before the committee is from the World University Service.

The Baker Memorial Foundation was established "to perpetuate the memory of Everett Moore Baker, a staunch protagonist for the consideration of human beings as individuals, a vigorous proponent of a broad educational policy, a dynamic extra-curricular program, and a congenial physical and intellectual environment at MIT, and an ardent worker toward friendly relations among the peoples of all nations." The Foundation's purpose is to advance his ideals and objectives.

The committee would like to hear of projects and organizations, both from within and without the Institute, whose activities and goals might qualify for Baker Foundation aid. Requests should be sent to committee chairman Bob Rothstein '60, Baker House, by November 25.

As a public service we are printing this notice just as received from VOO DOO:

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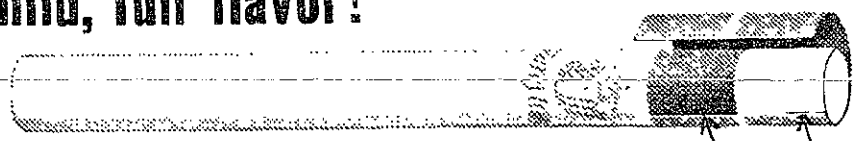
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It was dark in the little sleeping bag. Miguel pulled off one boot. He pulled off the other boot. His mind was on the beer. Not far off, the colorful *toros* were strumming on their *muchachos*. The wind was restless in the trees. He thought of the beer.

"I will have the Schaefer now. The beer."

Teresa brought it to him. "What do you hear in the best of circles?" she asked. "Schaefer all around!" he said. It was a little ritual they had between them. It was a very good ritual. She watched him drink *la cerveza real*—the real beer. "How goes it?" she said. She was blushing.

"It goes well. It is of the palate. It is of the throat."

"Has it a smooth round flavor?"

"It has a smooth round flavor."

"What does round mean?" She was afraid he would think her a fool.

"You are a fool," he said. "Round means never sharp, round means never flat."

"The Schaefer beer is round," she smiled.

"I drink to you, *mi vida*," he said.

"I drink to you, *dumbkopf*," she said.

They were quiet together, thinking of the Schaefer. Somewhere the *conquistadores* began to sing softly. The time of the Schaefer was a good time.

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# Guidance Conference Held Here; Counselors Adjudge MIT "Tops"

MIT students are "enthusiastic about intellectual stimulation," "strongly motivated" and are "well rounded." Moreover, they possess "A common intensity and seriousness of purpose," "warmness about the Institute," "pride in handling the tough work," "humility" and "a feeling of national purpose rather than a mere mental exercise." In general, "MIT is tops."

These are the candid impressions of

some of the ninety-nine guidance counselors of secondary schools who attended the MIT Guidance Conference held here last Wednesday, Thursday, and Friday, October 7, 8, 9.

B. Alden Thresher, MIT Director of Admissions, characterized the conference as both an ideal way of interchanging ideas between high school guidance counselors and college officials, and acquainting the guidance counselors with the true picture.

The high school counselors reaction to both parts was favorable. Typical reactions to the MIT conference, the largest of its kind, were "extremely valuable" and "We (the high school guidance counselors) owe a vote of thanks to MIT for showing us so much." Their enthusiasm for MIT is shown in the quotes in the first paragraph.

About a hundred guidance counselors from schools with Alumni at MIT were invited for the all expense paid visit.

This year's conference, the fourth in as many years, opened with speeches on "The Concept of University Education Polarized Around Science" by Dean Pietro Belluschi, of the School of Architecture and Planning, Dean Gordon S. Brown, of the School of Engineering, Dean Edward P. Brooks, of the School of Industrial Management, Dean George R. Harrison, of the School of Science, and Professor Roy Lamson, of the Humanities Department.

The counselors ate lunch at the Graduate House each with an alumnus from his school to describe MIT.

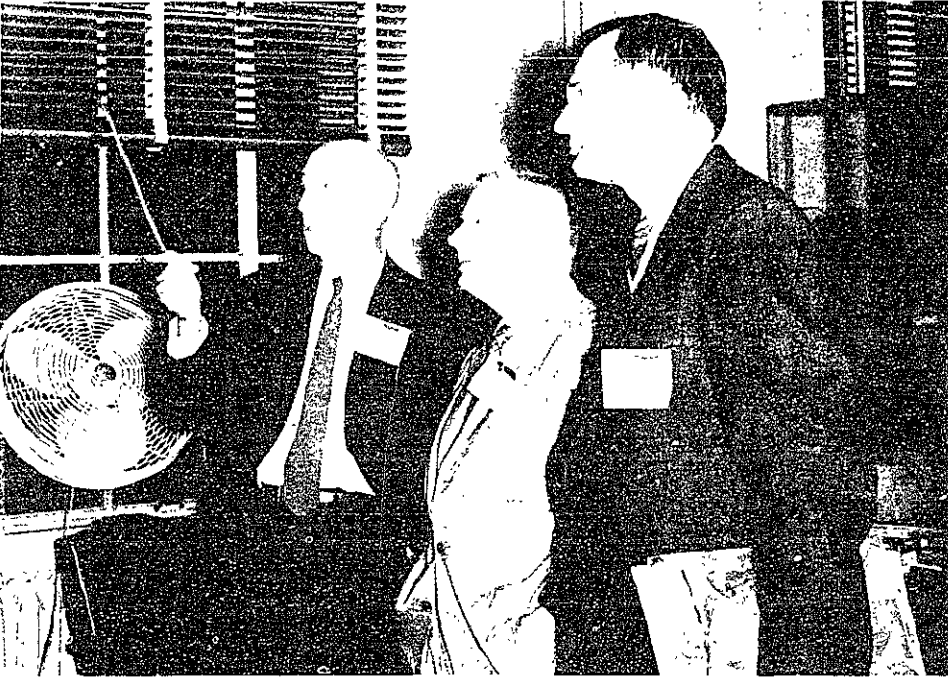
The guidance people then formed groups to discuss such topics as Financial Aids and the Advanced Placement program. They also had a chance to visit with more of their alumni here.

Friday the group heard a series of reports on the basic theme of guidance and selection which included



Some of the visiting guidance counselors inspect a display of MIT catalogs and publications in Kresge auditorium.

— Photo by Dick Marks.



Director of Admissions B. Alden Thresher explains some of the workings of the Institute to visiting high school guidance counselors at the Conference last week.

— Photo by Dick Marks, '62

"Selection by the College" by Dean Thresher, and "Guidance by the College" by Dean John T. Rule.

That afternoon the guidance counselors broke into groups again to discuss the selection process at MIT. The discussions centered on application folders from MIT files. MIT faculty members served as chairmen, and were able to express their opinions on what the MIT student should be.

The conference was closed Friday night with a dinner at the Faculty Club featuring President Stratton's speech, "Science and Education."

The admissions department, aware of the part guidance counselors play in sending students here, plans to continue the yearly conference program and to reach bit by bit, all the several hundred odd schools which send students to MIT.

## Engineering and Science Majors: Step right into the SPACE AGE with one of the Great Names in Industry

Space age division of Ford Motor Company has unique opportunities for exceptional engineering and science graduates at new research and engineering center in Newport Beach, Southern California.

HERE IS WHY OPPORTUNITIES AT AERONUTRONIC ARE SO UNIQUE FOR YOUNG MEN—This is the first time in history that ground floor opportunities, together with such outstanding benefits, are open with one of the largest and most respected business enterprises in the world—Ford Motor Company. Aeronutronic, itself a young and growing organization, has definite need for young men with new ideas and a fresh approach to share in research and development work

Here are some straight answers to questions you may have about Aeronutronic:

- Who is Aeronutronic?** AERONUTRONIC was established in 1956 by Ford Motor Company to engage in research, development and manufacture of advanced systems and products for military and commercial purposes.
- What are its major areas of research?** Aeronutronic consists of five main technical groups: Advanced Research Operations; Space Technology Operations; Tactical Weapon Systems Operations; Computer Operations; and Range Systems Operations.
- What business does Aeronutronic have?** More than 40 government and commercial programs are currently in work—programs like SHILLELAGH, the Army's new surface-to-surface missile; FLIDEN, for the Federal Aviation Agency; and Range Planning Study for NASA's Project "Mercury."
- What kind of backing does Aeronutronic have?** Ford Motor Company resources provide the finest facilities and financial support for carrying out complete research, development and manufacturing operations—plus additional unlimited production support when needed.
- What kind of facilities do they have?** Ultra-modern \$22 million Engineering and Research Center is now under construction and already partially occupied. When completed in 1962, the new complex will have over eight major structures totalling over one million square feet.
- Is individual capability recognized?** Yes. Aeronutronic looks for and recognizes the capabilities and potentials of its people. Matching the capabilities of men with the job to be done is a continuing goal at Aeronutronic.

If you are one of these forward-looking engineers or scientists who is serious about the future and a good start toward it, you already have some ideas of your own as to what you require in a career position. Jot down your needs and compare them with this unusual combination of advantages considered the most outstanding in the industry. Then, take a few minutes to

### CAMPUS INTERVIEWS

October 12 and 13

Talk to the Aeronutronic Staff Representative about your interests and specialties when he's here on campus. Register now with your school engineering placement bureau for an interview.

for the space age. Rapid and accelerating growth of Aeronutronic, the dynamic new division of Ford Motor Company, is creating unequalled opportunities for young men who have chosen to specialize in one of the vital and challenging areas of space sciences, tactical weapon systems, missile range systems, advanced electronics and communications, data processing and computer technology.

- What kind of assignments can I expect?** Research, design, engineering and development positions are open to exceptional graduates in fields of space sciences, tactical weapon systems, advanced electronics and communications, and computer and data processing technology. (Specific openings are described in new career opportunities booklet offered below.)
- Do they have competent leadership?** Aeronutronic is a business-oriented organization, headed up by Ford Motor Company Vice-President, Gerald J. Lynch, and other business, scientific and production managers experienced in the application of sound management principles.
- Where does Aeronutronic stand in R & D work?** By the end of June, 1958, as an example, Aeronutronic moved from 132nd to 48th place among prime sources for government R & D contracts.
- Where is Aeronutronic located?** Aeronutronic's new facility is located on a 200-acre site overlooking the harbor and Pacific Ocean at Newport Beach in Southern California, the West's most ideal area for living, working and raising a family.
- What other benefits can I expect?** Ford Motor Company employee benefits are considered the finest in the industry—Ford savings programs, exceptional insurance and hospitalization plans, paid vacations and sick leave, regular salary increases, and many other benefits equal to or better than the industry standard.

talk with the Aeronutronic representative about your interests and specialties when he's at your campus. Or, for more information, send for free booklet "Career Opportunities for Engineers and Scientists." Write to: Aeronutronic, a division of Ford Motor Company, Ford Road, Newport Beach, California, Attention: Graduate Placement Dept.

# AERONUTRONIC

NEWPORT BEACH • SANTA ANA • MAYWOOD, CALIFORNIA

a Division of FORD MOTOR COMPANY  
Ford Road, Newport Beach, California



# Why are so many college men switching to pipes?

SEND YOUR ANSWER IN 25 WORDS OR LESS

## WIN 4 YEAR WARDROBE 261 PRIZES IN ALL

1st prize—A famous Botany "500" wardrobe every year for 4 years (2 Suits, 2 Sport Jackets, 2 Pair of Slacks, and 1 Topcoat.)  
Next 5 prizes—Ultra-precision imported Sony Transistor Radio  
Next 5 prizes—World-famous pocket size Minolta "16" Camera  
Next 250 prizes—Kaywoodie Campus Pipe

Pick up an official entry blank at your regular tobacco counter, or write Kaywoodie Pipes, Inc., New York 22, for one.  
**HINTS TO WIN: Why men smoke pipes—** There's a rich, fulfilling, "all's well" feeling that a man gets only from a pipe. A relaxed, calms-you-down contentment that's associated exclusively with pipe smoking. And you get all the pleasure of smoking without inhaling.

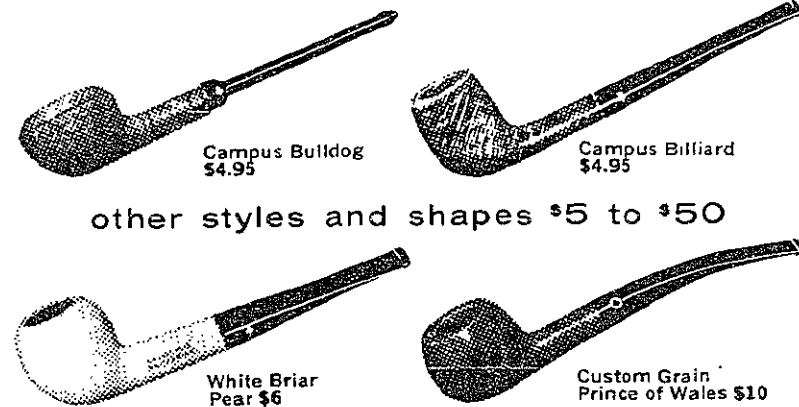


Campus Yacht \$4.95

### Why pipe smokers choose KAYWOODIE

Kaywoodie Briar is imported, aged, selected, hand crafted, hand rubbed, tested, inspected, and only then does it earn the coveted Kaywoodie Cloverleaf. That's why Kaywoodie hefts airily light; always smokes cool and sweet. The exclusive Wrinkless Fitment inside the pipe condenses tars, moisture and irritants as nothing else can. Try a Kaywoodie. One puff is worth 1,000 words.

**CHOOSE YOUR KAYWOODIE**  
from the famous campus collection...\$4.95



Campus Bulldog \$4.95

Campus Billiard \$4.95

White Briar Pear \$6

Custom Grain Prince of Wales \$10

**KAYWOODIE**  
accents the male look

### Dividend Checks Distributed

## Coop Reports Sales and Refunds Up

The Coop distributed over \$427,000 worth of refund checks to its members at Harvard and MIT last Tuesday. This represents an increase of over 10% from last year's figure. Sales and net income also rose over last year.

In the year ended June 1959, the Coop reported \$6,707,802 in sales, up \$900,000 over 1958. It also showed a net income after refunds of \$109,121, up \$60,000 over 1958. Stanley F. Teele, president of the Coop, stated that the increased profit would be used "to provide funds for increased inventories and accounts receivable as well as for the reduction of the debt incurred for the physical expansion of the Harvard Square store."

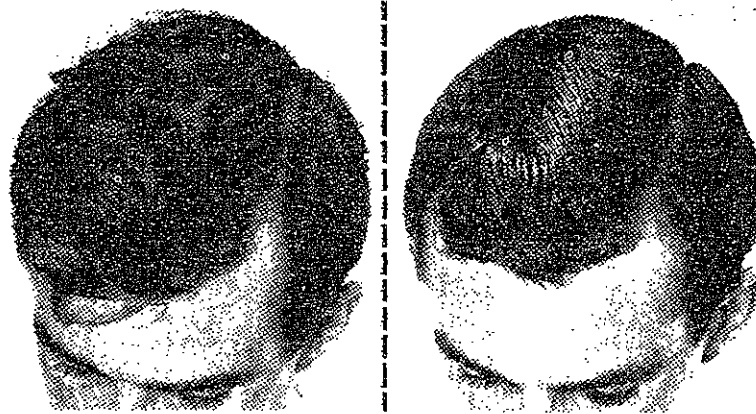
In 1958, the Coop reported 36,699 members paying fees of \$1.00 each, an increase of almost 3,000 over the previous year.

The Coop's board of directors for the present year include from MIT, Professor Houlder Hudgins, Donald Severance of the Alumni Association, and students Richard McDowell, '60 and Peter Gray, '61. The trustees include Dean John T. Rule and Administrative Vice President Carl Floe.

An annual meeting of participating members is scheduled for October 28th, and will be held at Harvard Square. At this meeting, all coop members may raise suggestions concerning operational improvements of the Society. An annual report, summarizing the Coop's finances, is available from the Harvard branch also.

MIT Humanities Series 1959-60  
PRESENTS the first of five concerts in the Humanities Series  
NEW YORK PRO MUSICA Noah Greenberg, Music Director  
Sunday, October 25 3:00 P.M. Kresge Auditorium MIT  
Tickets \$1.75 (reserved) may be ordered by mail from MIT Music Office or by calling UN 4-6900, Ext. 3210  
Series tickets at \$7.50 also available

## WILDROOT CREAM-OIL KEEPS HAIR GROOMED LONGER! MAKES HAIR FEEL STRONGER!



"Surface" Hair Tonics

Penetrating Wildroot Cream-Oil

"Surface" hair tonics merely coat your hair. When they dry off, your hair dries out. But the exclusive Wildroot Cream-Oil formula penetrates your hair. Keeps hair groomed longer...makes hair feel stronger than hair groomed an ordinary way. There's no other hair tonic formula like it.

MAKE HAIR OBEY ALL DAY WITH WILDROOT CREAM-OIL!



## 32 Section Leaders Elected by Freshmen

The elections for Freshman section leaders which took place last week had the following results: Section 1, Eric Kanstrom, Tau Epsilon Pi, Alt. Bob Lodge; 2, Pete Metz, Phi Delta Theta, Bart Cramer; 3, Bud Risser, Phi Delta Theta, Jim Baudreau; 5, Bob Starzar, Baker, Jim Baudreau; 6, Al Kessler, Dover Club, Terry Foster; 7, Steve Kierulff, Phi Kappa Sigma, Matt Lind; 8, Tom Wojick, Delta Upsilon, Bill Petters; 9, Stephen Zilles, Delta Upsilon, Phillips.

Section 10, Richard Huffman, Delta Tau Delta, Alt., Brandish; 12, Paul Shapiro, Sigma Alpha Mu, Weber; 13, Bob Vernon, Lambda Chi Alpha, Barry Weissman; 14, Tony Geisler, Baker, Hopper; 15, Don Booker, Burton, Walter Dence; 16, Jack Lynch, Lambda Chi Alpha, Tom Gerrity; 17, Seth Malin, Tau Epsilon Pi, Harry Koons; 18, Dale Miller, Beta Theta Pi; 19, Tim Sloat, Delta Tau Delta, Jim Champy; 20, Jim Evans, Delta Upsilon; Dave Claypool; 21, Chip Goldblum, Delta Upsilon, Grant Wilson; 22, Steve Colburn, Sigma Chi, Tim Taylor; 23, Bob Johnson, Phi Delta Theta, Lifschitz; 24, Fred Luyties, Phi Gamma Delta, Larry Demick; 25, Jerry Masek, Phi Delta Theta, Bill Dorsch; 26, Norman Hernandez, Burton, Jeff Paarz; 27, Edwin Cook, Sigma Alpha Epsilon, Joseph; 28, Frank Levy, Bob Morse; 29, Tom Duke, Delta Upsilon, Paul Lambert; Ben Zuckerman, Dover Club, Charles Stigwart; 31, Jerry Sadler, Phi Kappa Theta, Dave Sikes; 32, Bill Wright, Burton, Jay Salmon; 33, Bill Scheftner, Beta Theta Pi, Ralph Grabowski; 34, Jim Gustovson, Sigma Nu, Sompayrac; 35, Dan Eckard, Phi Delta Theta, Vernon Bremberg.

the opening of New England's only night club devoted to folk music.

Opening Thurs., Oct. 8 featuring  
**BUD & TRAVIS**  
 Direct from "Blue Angel"  
**ROLF CAHN**  
 Flamenco—Ballads—Blues  
 EXETER ST. at HUNTINGTON AVE.  
 Downstairs at Copley Sq. Hotel

Opening Soon  
**OSCAR BRAND**  
 BROTHER JOHN SELLERS

# DODGE DEALERS OF GREATER BOSTON ANNOUNCE THE 1960 \$2000 DODGE SCHOLARSHIP AWARDS for High School Seniors and College Students

**WIN!**

**WHO?**

**HOW?**

**WHERE?**

**WHEN?**

Four individual awards of \$500 each for college tuition and/or board at any accredited college.

Any high school senior or college student currently enrolled in the Greater Boston area.

Tell us in a hundred words or less why you want a college education. Official Entry Form must be used. Entries will be judged on the basis of sincerity, clarity and expressiveness.

Eligible students or their parents are invited to pick up Official Entry Forms & Rules at any Dodge Dealer's showroom in the Greater Boston area.

Now! All entries must be returned before December 1st. Winners will be notified by mail and public announcement.

### A MESSAGE TO PARENTS AND EDUCATORS

This Scholarship Award Program is sponsored by the Dodge Dealers of Greater Boston

to stimulate interest in the need for higher education among the youth of our community. As businessmen in this area, we feel an obligation to share in the vital responsibility of encouraging our children to seek education. For this reason we have established this Scholarship Fund, which in its small way may annually provide a measure of financial assistance to four worthy students, and encourage many others to consider the importance of a college education.

OFFICIAL ENTRY FORMS MAY BE OBTAINED WITHOUT OBLIGATION AT THESE DODGE SHOWROOMS:

**ARLINGTON**  
 REED MOTOR COMPANY, Inc.  
 326 Massachusetts Ave.  
 Kenneth C. Reed MI 3-8500

**BELMONT**  
 PLEASANT ST. GARAGE OF BELMONT, Inc.  
 1090 Pleasant St.  
 Joseph A. DeMilia IV 4-5420

**BEVERLY**  
 DOOLING'S GARAGE  
 8-12 Railroad Ave.  
 Francis D. Dooling WA 2-0122

**CAMBRIDGE**  
 MOLL MOTORS, Inc.  
 829 Somerville Ave.  
 A. J. Moll TR 6-3740

**CHELSEA**  
 MYSTIC BRIDGE MOTORS, Inc.  
 18-28 Eden Street  
 Ralph Felin WE 3-7272

**DANVERS**  
 GETCHELL MOTORS  
 95 High Street  
 C. C. & B. H. Getchell SP 4-0291

**DORCHESTER**  
 FRANKLIN FIELD MOTORS, Inc.  
 972 Blue Hill Ave.  
 Edward Frutman GE 6-7400

**GALLIVAN MOTORS, Inc.**  
 450 Talbot Ave.  
 Leo Berman AV 2-1400

**EAST BOSTON**  
 NEPTUNE MOTORS, Inc.  
 480 Bennington St.  
 Syd Goldberg LO 7-5800

**LYNN**  
 CARGILL MOTORS, Inc.  
 671 Lynnway  
 Charles Cargill LY 8-1400

**MALDEN**  
 MALDEN AUTO EXCHANGE, Inc.  
 200 Eastern Ave.  
 Samuel Gilck DA 4-3100

**MARBLEHEAD**  
 FLEMING-GRIFFIN, Inc.  
 381 Atlantic Ave.  
 W. Fleming & R. Griffin NE 2-0662

**MEDFORD**  
 FLAMMA BROTHERS  
 321 Salem Street  
 Joseph & Paul Flamma EX 6-5720

**NEWTON**  
 SILVER LAKE MOTORS, Inc.  
 444 Watertown St.  
 C. J. Lupo BI 4-5880

**PEABODY**  
 FAY MOTOR COMPANY, Inc.  
 77-81 Main Street  
 William Fay JE 1-0810

**QUINCY**  
 GRANITE MOTOR SALES, Inc.  
 310 Washington St.  
 P. A. Hassen PR 3-8810

**READING**  
 NEWHOUSE MOTOR SALES, Inc.  
 142 Washington St.  
 Charles W. Newhouse RE 2-1671

**ROXBURY**  
 WESTMINSTER MOTORS, Inc.  
 420 Warren St.  
 Max Siegel GA 7-2400

**SALEM**  
 PIONEER DODGE, Inc.  
 475 Highland Ave.  
 Melvin Goldberg PI 4-6611

**SOMERVILLE**  
 KNOX BROS. MOTOR CO., Inc.  
 645 Broadway  
 Stanley & Arnold Knox MO 6-2200

**WAKEFIELD**  
 CLASSEN BROTHERS, Inc.  
 827 Main Street  
 C. W. & J. E. Classen CR 9-0783

**WALTHAM**  
 TOWNE LINE MOTORS  
 21 Main Street  
 J. T. Bothen TW 3-1856

**WATERTOWN**  
 CRAWFORD MOTORS  
 15 Crawford Street  
 Sheldon J. Ananian WA 3-9202

**WOBURN**  
 ALDA DODGE SALES  
 100 Winn Street  
 A. R. Ross & D. C. Russell WO 2-1224

# Tech Flying Club Plans Smoker; Information Service Two Airplanes Available for Use And Travel Service Announced by APO



The Tech Flying Club's Cessna 140

After a very successful first year, The Tech Flying Club is expanding very rapidly. About this time last year a number of MIT students were discussing and forming plans on obtaining an airplane which they could operate as a club in order to make flying inexpensive enough to be feasible. In the early spring, the Tech Flying Club formed with the quota of twenty-five people and put up enough money to finance a Cessna 140. Most of these people had never flown until the plane became operational at Revere Airport; this fall there are a number of licensed pilots in the club. The 140 is an attractive two-place airplane, much better than what an airport would train you in. It is equipped with radio and primary instrument panel. The plane is beautifully taken care of due to the interest the club has in it.

### Two Airplanes Now

The success of the club is evident in that there are now over forty members, as well as another plane, a fast, all metal Cessna 172 which is ideal for cross-country trips, having the best navigational equipment in it. This year the Tech Flying Club is flying out of Bedford, a larger airport than Revere. To supplement the flying activity, every other week movies are shown or lectures given pertaining to flying. These are always educational even to the licensed pilot.

For further information call University 8-7006 or come to the next meeting on Tuesday, October 20, in the Baker House Master Suite Lounge where refreshments will be served.

Alpha Phi Omega has announced two services for the MIT Community. So far, it has put into effect its information service and its ride service. The information service provides details about social events, musical performances, athletic contests, and other events taking place on the MIT campus or in the Cambridge-Boston area. It can be contacted by dialing Institute extension 2783.

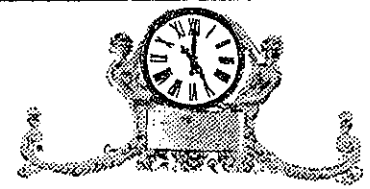
### Ride Service

The ride service is mounted in Dean Fasset's Office, Room 7-104. It consists of a large map with pegs, upon which students needing a ride or who can furnish transportation hang notices. Those needing either rides or riders place a card on the appropriate part of the map with the name, date, phone number, etc., and students who can fulfill their requests contact them.

It is reported that cards for the Thanksgiving vacation have already appeared on the ride service map.

**ORGY and MESS**  
No, Just One Heck  
Of A Good Sandwich.  
Every Noon, Front Building  
7 Mass. Avenue — ELSIE'S

**TENNIS and SQUASH SHOP**  
ALL MAKES — ALL PRICES  
67A Mt. Auburn St., Cambridge  
Tel. TR 6-5417



Everybody Meets Under The Clock  
at The **BILTMORE** in New York

### SPECIAL RATES

for Students (B.M.O.C.s, L.M.O.C.s,  
C.O.E.D.s) Single \$8.00  
Twin: \$6.25 (per person)  
Triple: \$5.25 (per person)



For information or reservations address:  
College Department, The Biltmore,  
Madison Ave. at 43rd St., New York 17, N.Y.  
or use this handy coupon

College Dep't., The Biltmore, New York 17, N. Y.  
Please reserve the following accommodations

for \_\_\_\_\_ at \$ \_\_\_\_\_  
(date and time) (rate)  
(name) \_\_\_\_\_  
(address) \_\_\_\_\_

Realty Hotels, Inc., Harry M. Anhoit, President

# engineers

and what they do at Pratt & Whitney Aircraft...

The field has never been broader  
The challenge has never been greater

Engineers at Pratt & Whitney Aircraft today are concerned with the development of all forms of flight propulsion systems—air breathing, rocket, nuclear and other advanced types for propulsion in space. Many of these systems are so entirely new in concept that their design and development, and allied research programs, require technical personnel not previously associated with the development of aircraft engines. Where the company was once primarily interested in graduates with degrees in mechanical and aeronautical engineering, it now also requires men with degrees in electrical, chemical, and nuclear engineering, and in physics, chemistry, and metallurgy.

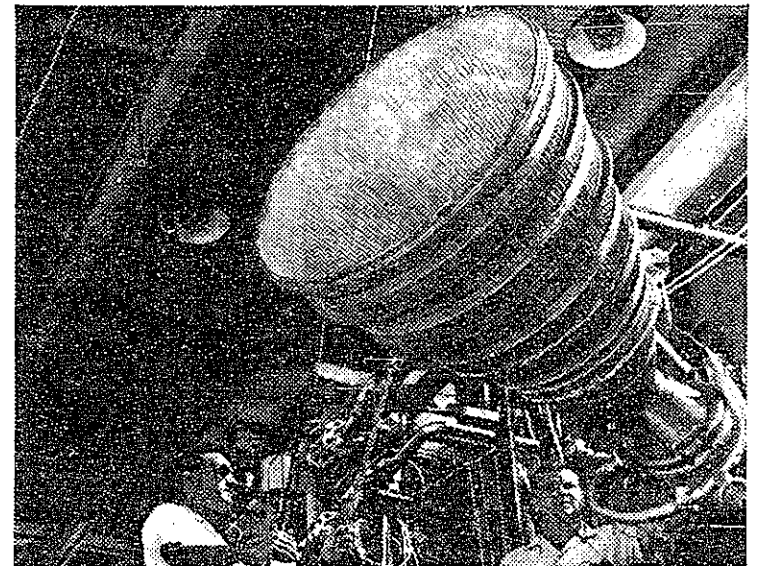
Included in a wide range of engineering activities open to technically trained graduates at all levels are these four basic fields:

**ANALYTICAL ENGINEERING** Men engaged in this activity are concerned with fundamental investigations in the fields of science or engineering related to the conception of new products. They carry out detailed analyses of advanced flight and space systems and interpret results in terms of practical design applications. They provide basic information which is essential in determining the types of systems that have development potential.

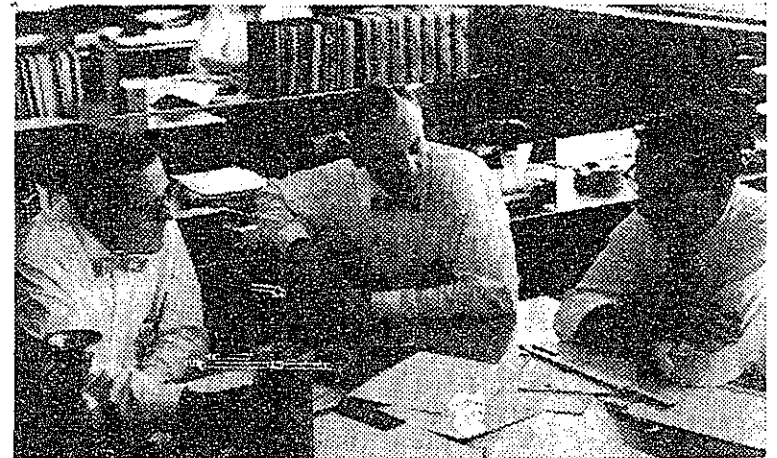
**DESIGN ENGINEERING** The prime requisite here is an active interest in the application of aerodynamics, thermodynamics, stress analysis, and principles of machine design to the creation of new flight propulsion systems. Men engaged in this activity at P&WA establish the specific performance and structural requirements of the new product and design it as a complete working mechanism.

**EXPERIMENTAL ENGINEERING** Here men supervise and coordinate fabrication, assembly and laboratory testing of experimental apparatus, system components, and development engines. They devise test rigs and laboratory setups, specify instrumentation and direct execution of the actual test programs. Responsibility in this phase of the development program also includes analysis of test data, reporting of results and recommendations for future effort.

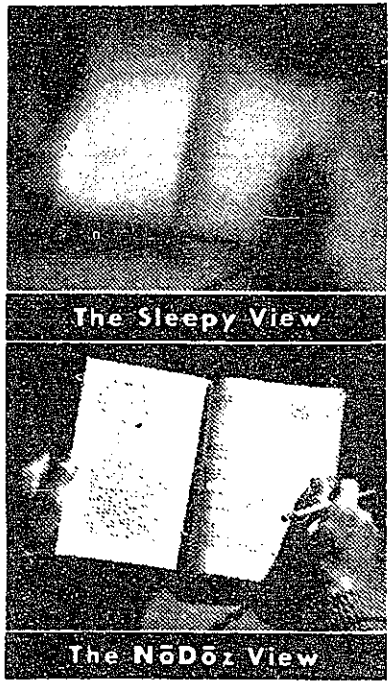
**MATERIALS ENGINEERING** Men active in this field at P&WA investigate metals, alloys and other materials under various environmental conditions to determine their usefulness as applied to advanced flight propulsion systems. They devise material testing methods and design special test equipment. They are also responsible for the determination of new fabrication techniques and causes of failures or manufacturing difficulties.



Exhaustive testing of full-scale rocket engine thrust chambers is carried on at the Florida Research and Development Center.



Frequent informal discussions among analytical engineers assure continuous exchange of ideas on related research projects.



The Sleepy View

The NoDoz View

Millions of times a year drivers and students keep awake with safe NoDoz

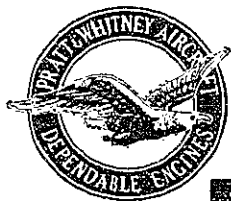
Let NoDoz alert you through college, too

NoDoz keeps you alert with caffeine—the same pleasant stimulant you enjoy in coffee. Faster, handier, more reliable: non-habit-forming NoDoz delivers an accurate amount of dependable stimulation to keep your mind and body alert during study and exams until you can rest or sleep.

P. S.: When you need NoDoz, it'll probably be late. Play safe. Keep a supply handy.



The safe stay awake tablet—available everywhere



World's foremost designer and builder of aircraft engines

## PRATT & WHITNEY AIRCRAFT

Division of United Aircraft Corporation

CONNECTICUT OPERATIONS—East Hartford

FLORIDA RESEARCH AND DEVELOPMENT CENTER—Palm Beach County, Florida

For further information regarding an engineering career at Pratt & Whitney Aircraft, contact your college placement officer.

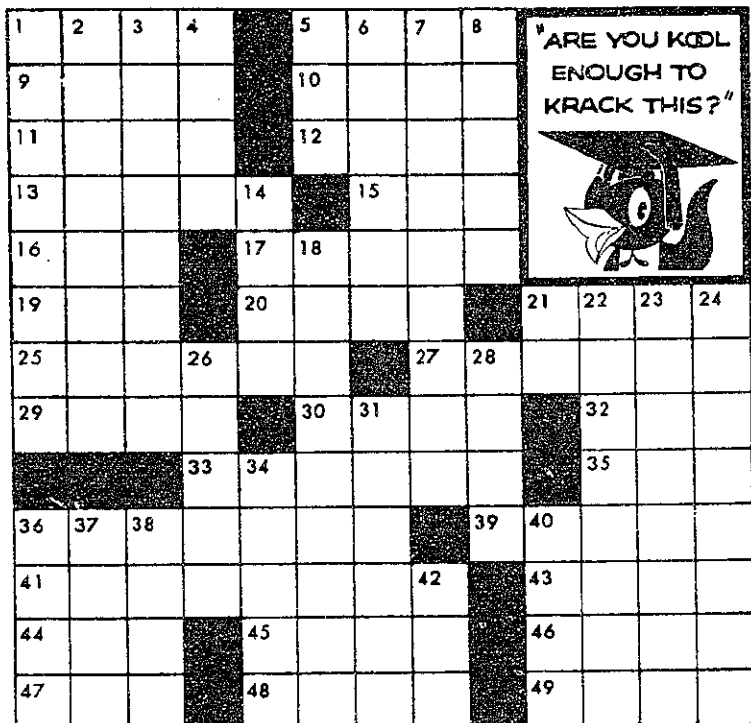
**GIOVANNI'S**  
Now England's Newest and Finest  
Restaurant — Specializing in  
**Italian And American Cuisine**  
WINES & LIQUORS  
PIZZA AT ITS FINEST  
240 Green St., Cambridge  
Central St. Bear of Harvard Bear  
EL 4-9016

**CHEZ LUCIEN**  
FRENCH CUISINE AT ITS BEST  
Formerly with the French Line  
IMPORTED WINES  
Lunch 12-2 Dinner 5:30-10:30  
Friday Only Daily  
121 Mass. Ave., Boston CI 7-8933  
Opposite Mass. Station  
LUCIEN: Chef and Owner

Sunday Evening OCTOBER 18 at 8 o'clock  
HAROLD E. CLANCY  
JAMES A. WECHSLER  
"Nixon as President: Statesman or Politician?"  
**FORD HALL FORUM**  
JORDAN HALL — Gainsboro St. cor. Huntington Ave. — BOSTON  
DOORS OPEN 7:45 P.M. EVERYBODY WELCOME

**KOOL KROSSWORD No. 5**

- ACROSS**
- Talk about your victory
  - Perches in churches
  - Clair de la's last name
  - Kool is the best kind to smoke
  - Swedish gal's name
  - An arbor graduate
  - Goofy Mortimer
  - French lady saint (abbr.)
  - Aviv
  - Competitive kind of woman
  - Eric is a little short
  - Motors, waves and lions do it
  - King of Norway
  - It's common to airports
  - Walk with a roll
  - Raps backward
  - Graf (German ship)
  - Almost a Veep
  - Discerning
  - 2nd Person sheep
  39. What makes Kools so enjoyable?
  - Not the kind of town for a race track
  - Speak highly of
  - Dental degree
  - Act like an onion
  - Little America
  - This suffix is the most
- DOWN**
- Is very hot
  - Second man
  - Girl from L.A.?
  - It's shifty in a sports car
  - One man's cringing hand is another's
  - His ale (anagram)
  - Play obviously not by Somerset Maugham
  - A bum one misleads you
  - Classical dumb gal
  - Good places for dolls
  - Either's brother
  - Tennis skunking sounds romantic
  - Fish, not beer-loving spouses
  - Crooks who could be soft touches
  - This is madness
  - Meet up, in the rain
  - Hand holders
  - A type of line
  - Fashion
  - What the British call cigarette butts
  - Tree house
  - Fellow who could probably use a Kool
  - out (earn a scanty living)



When your throat tells you it's time for a change, you need a real change...  
**KOOL**  
MILD MENTHOL KING-SIZE Cigarettes

YOU NEED THE  
*Menthol Magic*  
OF **KOOL**



Gentlemen, we give you **CONTEMPORARY CLASSICS**  
Newest look of leisure since white bucks! Traditional as the Dickens (*masterpieces*), modern as jazz. Matter of fact, the perfect combination of what's always been and what's bound to happen. A complete line of men's furnishings and leisurewear—all designed to give you the kind of individuality you want.  
**VAN HEUSEN "417" COLLECTION**

**RESEARCH ENGINEERS:**

THE MEN BEHIND THE HEADLINES

NAA's On-Campus Interviews  
October 22nd, and 23rd

**N**EARLY EVERY DAY you read of another advance in science... whether it's a space vehicle streaking toward Venus or a submarine gliding beneath the polar ice.

These are the events that make headlines... but even as they are announced to the world, engineers and scientists are planning new and greater achievements—and research shows them the way.

Scientific research always has had an important role at North American Aviation. Today, research projects are underway at more than 185 laboratories in the six North American divisions. They encompass the full scope of modern science.

**Is air stiffer than steel?**

Not all research has the headline appeal of a space ship or nuclear power. For example, research engineers at the Autonetics Division, which designs and manufactures space-age navigation systems, found new and different ways of building rotating bearings... and found that air is stiffer than steel for some purposes. Improved gyroscopes and magnetic recordings were important results of this research.

**A cigarette's place in research**

Even the ordinary cigarette has a role in scientific research. Scientists at the Aero-Space Laboratories, an organization within North American's Missile Division, use a burning cigarette in a still room to illustrate the difference between laminar flow and turbulence in the boundary layer, the very thin air space that lies along the outer skin of an aircraft or missile. This research is part of a program to find ways to protect missiles, satellites and space ships from burning when they re-enter the earth's atmosphere.

**Toward the conquest of Space**

The Rocketdyne Division has designed and built the bulk of today's operating hardware in the high-thrust rocket field. Explorer I, America's first satellite, was boosted into orbit by a Rocketdyne engine... and three-fourths of the power for Able IV-Atlas—man's first attempt to reach toward another planet—comes from liquid-propellant engines designed and built by Rocketdyne. Researchers at Rocketdyne delve into

the chemistry of propellants, the physics of engine components and what happens within them, ignition of fuels, combustion of fuels, and the transfer of heat.

**2,000 mph manned weapon systems**

The Los Angeles Division is the home of next-generation manned weapon systems—the Mach 3 B-70 Valkyrie and F-108 Rapier—and America's first manned space vehicle, the X-15. Research engineers in this division investigate manufacturing techniques, conduct studies in aerodynamics, materials and processes, and thermodynamics. They also work with physiologists, biotechnologists, biophysicists, and psychologists to solve design problems concerning human capabilities and limitations that arise from modern weapons and research systems.

**Building better Navy aircraft**

Analysis of aircraft carrier operation is a major research project at the Columbus Division. This division designed and built the Navy's T2J Buckeye jet trainer and the Navy's supersonic, all-weather A3J Vigilante. Research activities are diverse here—from how to illuminate an aircraft cockpit to developing unmanned vehicles and systems to perform within the earth's atmosphere.

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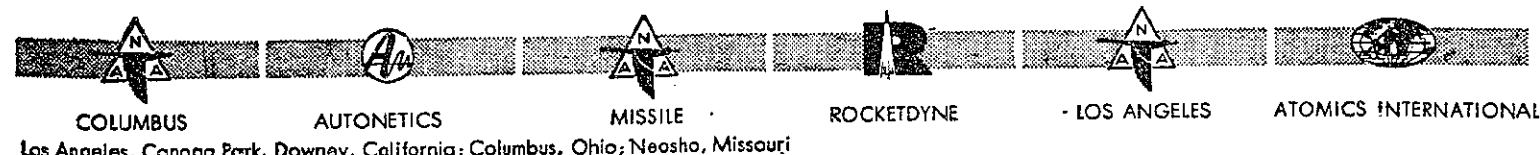
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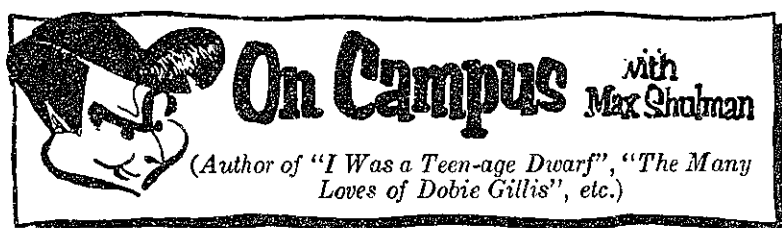
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**LANGUAGE MADE SIMPLE: NO. 1**

In this day of swift international communications, like radio, television, and the raft, it becomes more and more important to be solidly grounded in foreign languages. Accordingly, I have asked the makers of Philip Morris whether I might not occasionally forego levity in this column and instead use it for a lesson in language.

"Of course, silly!" chuckled the makers of Philip Morris, tousling my yellow locks. Oh, grand men they are, just as full of natural goodness as the cigarettes they make, just as clean and fresh, just as friendly, just as agreeable to have along in all times and climes and places. "Of course, fond boy," laughed the makers and tossed me up and down in a blanket until, giddy with giggling, I bade them desist, and then we all had basins of farina and smoked Philip Morris and sang songs until the campfire had turned to embers.

For our first lesson in language we will take up French. We will approach French in the modern manner—ignoring the tedious rules of grammar and concentrating instead on idiom. After all, when we go to France, what does it matter if we can parse and conjugate? What matters is that we should be able to speak *idiomatic conversational* French.

So, for the first exercise, translate the following real, true-to-life dialogue between two real, true-to-life Frenchmen named Claude (pronounced *Clohd*) and Pierre (also pronounced *Clohd*).



CLAUDE: Good morning, sir. Can you direct me to the nearest monk?

PIERRE: I have regret, but I am a stranger here myself.

CLAUDE: Is it that you come from the France?

PIERRE: You have right.

CLAUDE: I also. Come, let us mount the airplane and return ourselves to the France.

PIERRE: We must defend from smoking until the airplane elevates itself.

CLAUDE: Ah, now it has elevated itself. Will you have a Philippe Maurice?

PIERRE: Mercy.

CLAUDE: How many years has the small gray cat of the sick admiral?

PIERRE: She has four years, but the tall brown dog of the short blacksmith has only three.

CLAUDE: In the garden of my aunt it makes warm in the summer and cold in the winter.

PIERRE: What a coincidence! In the garden of *my* aunt too!

CLAUDE: Ah, we are landing. Regard how the airplane depresses itself.

PIERRE: What shall you do in the France?

CLAUDE: I shall make a promenade and see various sights of cultural significance, like the Louvre, the Tomb of Napoleon, and the Eiffel Tower . . . What shall you do?

PIERRE: I shall try to pick up the stewardess.

CLAUDE: Long live the France!

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\* \* \*

*Et vive aussi les Marlboros et les Alpines, les cigarettes très bonnes, très agréables, très magnifiques, et les sponsors de cette column-là.*

**Delts Win; Meet DU For League I Title**

Unleashing a powerful attack that produced scores in every period, Delta Tau Delta almost equaled their previous week's score of 52-0, as they defeated the Graduate House 39-6 in last weekend's football headliner. Leading the barrage was Terry Bray '62, who threw three TD passes, caught one himself, ran 49 and 9 yards for the other two scores, and figured in every extra point attempt. Sharing the scoring honors were Dan Michael '60 who caught two of the paydirt passes, Steve Smith '62, who threw a 65 yard scoring aerial to Bray, and Nick Kneen, '62, who, along with Michael, was a chief target of Bray's passes all afternoon.

Some fancy catches by Grad House end John Hopps were the only bright spots in the Grad offense which could not operate against the hard charging defensive line of the Delts. The only Grad House score came in the last minute of play on a 60 yard kickoff runback by Jim Stoner.

Sigma Phi Epsilon tallied twice in the second period as they defeated Delta Kappa Epsilon 14-0. Don Morrison '61 raced over from the twenty yard line to open the scoring and it was Morrison again as he passed to Al Stratton '61 for the final touchdown. Ralph Scallion '62 trapped the Deke quarterback in the end zone for the final two points in the fourth quarter as the Dekes desperately attempted to get back in the game.

**Phi Delta Theta Over TEP 14-0**

Two key interceptions enabled Phi Delta Theta to defeat Tau Epsilon Phi 14-0 in a close, hard fought contest. Following a scoreless first half, the alert Phi Delt defense picked off a TEP aerial early in the third quarter. Two plays later Fritz Frink, '60, passed to Ray Landis, '61, for the score. The story was repeated in the fourth stanza and this time it was a pass from Frink to Bob Hoffman, '61, that added the final six points and clinched the victory.

In other Division A activity, Beta Theta Pi, behind the standout passing of Warren Goodnow, '59, and the defensive play of Harold Branson, '63, defeated Sigma Chi 19-0. Meanwhile Sigma Alpha Epsilon eked out a 2-0

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Steve Smith, '62, is about to get off a long toss despite the charging Grad House line in the Delts' one-sided win.

victory over Alpha Epsilon Pi.

**Senior House II Heads For League VI Title**

Senior House II, now appearing to be the class of League VI, scored nine touchdowns in downing two opponents this past weekend. Five of the scores came on passes from Karl Josephy, '61, to Bill Grimmell, '61. If the Senior House team defeats Phi Mu Delta this Sunday, it takes the League Championship.

In the biggest game of this weekend's slate the Delts, now 2-0, play Delta Upsilon, the only other undefeated League I team. DU has taken both its games by identical 20-0 scores.

**Tennis Openers Marred By Rain**

This year's IM tennis season has gotten off to a wet start, as many of the first round matches have been postponed by rain. The first round is scheduled to be completed by the middle of next week.

As the first round draws to a close, only four of the scheduled 18 games have been played, with brackets being completely canceled and three other teams passing into the second round by forfeits.

In those games actually played, Baker House B sneaked past Delta Upsilon, defeating them in a close 3-2 decision. Graduate House Dining Service downed DKE by the same score and Theta Chi nosed out Lambda Chi Alpha, again by 3-2. The

strongest team in this season's competition seems to be Sigma Chi who displayed their clay court skill as they ran over Sigma Alpha Mu 5-0.

**IM Wrestling Tournament Opens Soon**

On October 30 and 31 the third annual IM Wrestling Tournament will be held, in Rockwell Cage. This year's winning team will receive points toward the All-Sports Trophy and in addition an individual trophy for taking the meet title.

As the meet is set up this year there are seven weight classes; 125, 137, 147, 157, 167, 177 and unlimited. Each man will be weighed in at Briggs Field House between 7-10 P.M. on Friday, October 30.

The initial rounds take place on Friday and the semi-finals, consolation and final rounds will be held between 2-5 P.M. on Saturday.

All entering teams must be registered at the Athletic Office before 4:00 P.M. October 23. Be sure to get a complete copy of the rules prior to the meet.

**On Deck**

**Saturday**

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Freshman Soccer with Boston University  
Cross Country with New Hampshire 2:00 P.M.

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## Varsity Booters Blank WPI, Tufts Tough Defense Sparks Victories

Sharp passing and brilliant defensive work sparked the varsity soccer team to shutout victories over WPI and Tufts this past week. Saturday afternoon, the Beavers put on a great display of ball control for the Briggs Field fans as they downed the men from Worcester 5-0. Taking the initiative from the opening whistle, the victors tallied all but one of their goals in the first half. "Manny" Penna, '60, was the game's scoring hero with three tallies. Ernesto Macaya, '60, and Pete Camejo, '62, netted the others.

The Engineers' ability to dominate the contest could be credited considerably to three standouts in the backfield. Fullbacks Joe Schutzman, '61, and Fouad Malouf, '60, and center halfback Andrus Viilu, '60, were tigers on defense for the Techmen.

MIT goalie George Emo, '62, made several beautiful saves to polish the team victory.

Tuesday afternoon's 2-0 triumph over Tufts was much the same story. Hampered by high winds, the varsity countered twice before the opening period was half gone, then were held scoreless despite their ability to keep the ball on the Jumbos' half of the field. Arturo Marques, '61, and Guillermo Van Oordt, '61, netted the winning tallies for the Engineers who again pleased the home crowd.

In addition to the previously mentioned backs, left halfback Dale Rhee, '60, and Dirk Berghager, '61, played outstanding soccer.

The pair of victories boosted the booters' season record to 2-1 with one tie, as they are yet to be beaten on Briggs Field. Tomorrow afternoon they travel to Middlebury looking for another shutout win.

## Harriers Defeated

## Mullen Sixth; Meet UNH Saturday

Traveling to Williamstown last Saturday, both the varsity and freshman cross country teams were defeated in triangular meets. The scores were varsity: Springfield 21, Williams 42, MIT 64, freshmen: Springfield 33, Williams 33, MIT 62.

Co-Captains Bob Mullen, '60 and Dan Oliver, '60, led the Beavers, finishing sixth, and thirteenth, respectively. Herb Grieves, '61, George Withbroe, '61, Ed McCartney, '60, Herb Wegener, '61, and Rog Weissinger, '62, followed in fourteenth through eighteenth spots.

MIT, paced by Mullen, led in the early stages of the meet, but the early fast pace, just over five minutes for the first mile, proved too much for the harriers as the powerful Springfield squad took charge near the first milepost.

The Cardinal and Gray finished as they started, in a group, but the Ephmen were able to group their runners about 15 seconds in front of the Beaver pack to gain them second place. A steep 500-yard long hill in the second mile seemed to be a deciding factor.

The frosh, although also third in their contest, showed improvement over their 17-45 loss to Andover two weeks ago. Rog Hinrichs and Pete Hiel were front runners for the yearlings in ninth and tenth places.

Tomorrow the harriers return to their home course at Franklin Park where they will face the University of New Hampshire at 2:00 P.M.

## Karman Cops Medal With 74, Engineer Linksmen Whip URI

Led by medalist Raul Karman, '61, the varsity golfers whipped University of Rhode Island 8-0 over the windswept Oakley Country Club links to boost their season record to 2-0.

Karman, the top ranking Engineer linksmen, scored a 3 and 1 victory as he posted a 74. Chuck Gamble, '62, Tech's number two man, gained a 2 and 1 triumph and Captain Bob Larson, '60, who holds the third position, won 5 and 3.

Other victors (match scores in parentheses): Colin Clive, '60, (1 up), Dave Pope, '62, (5 and 3), Garnett Nelson, '61, (5 and 4), Kearney Hibbard, '60, (6 and 5), and George Kennedy, '62, (6 and 5).

## Sailors Qualify For Team Racing Finals; Oberg Trophy Regatta Here On Weekend

Sailing in light air on the Thames last weekend at the Coast Guard Academy, the varsity sailors finished second to BU to qualify for the finals of the New England Team Racing Championships.

Each team manned four boats in a double round robin series of match races against each of the other schools, where the two teams with the greatest number of wins were to qualify.

BU went through the entire series undefeated. Although neither the Terriors nor the Beavers had any losses at the close of Saturday's races, the Engineers took two defeats when they met BU the following day, and a third when Yale upset them by a quarter-point. Skippering for MIT were George Kirk, '60, Pete Gray, '61, Jerome Milgram, '60, and Don Nelsen, '61, while Bruce Bardes, '61, Jim Cassotis, '63, Tom Nosek, '61 and Thane Smith, '62 handled the sheets.

Qualifying in a separate heat held on the Charles that same week were Brown and Harvard. Favored Coast Guard was surprisingly eliminated. Our hopes for winning in the finals on the 14th and 15th of November are rather high as we will be in our own boats.

## BASKETBALL TRYOUTS

Tryouts for both varsity and freshman basketball start this afternoon in the Rockwell Cage at four o'clock. All interested students, freshmen and upperclassmen, should plan on attending.

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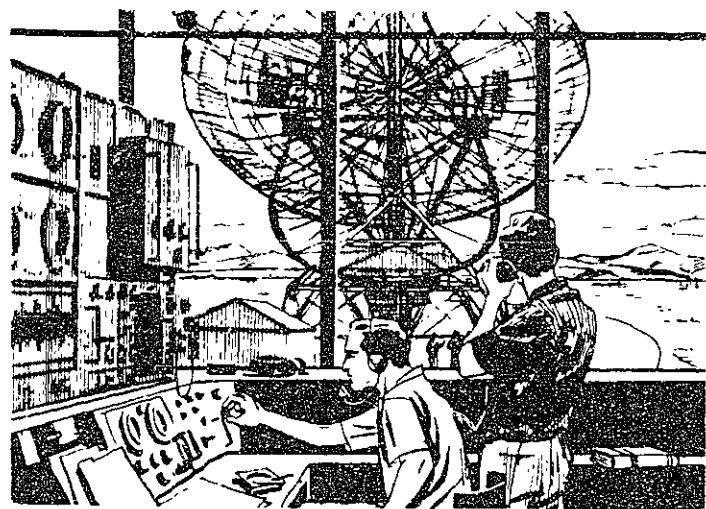
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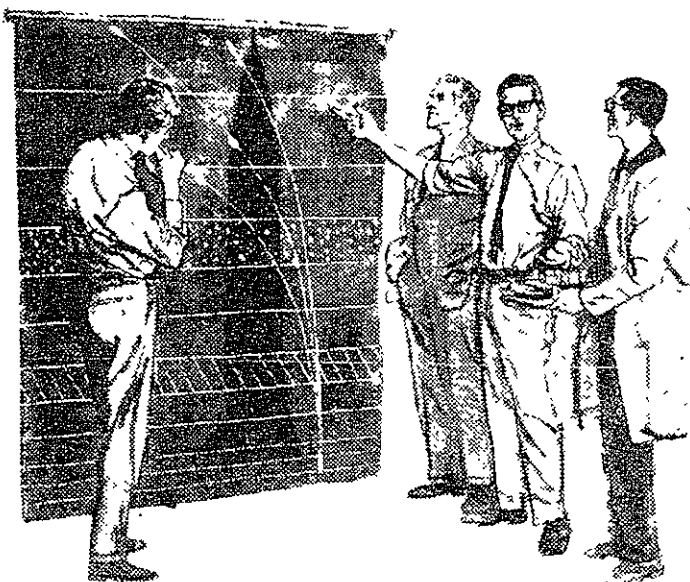
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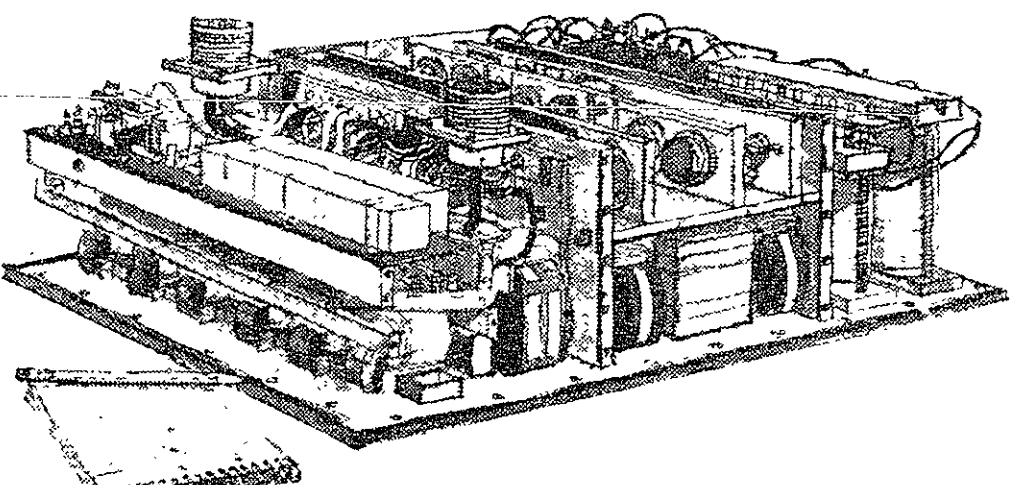
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**New Sport**

**Water Polo Player at Alumni Polo**

The fall of 1959 is seeing the introduction of a new sport to MIT: Water Polo. Although the game has been played extensively in Europe and on the West Coast, and in the Olympic Games and the Pan-American games regularly, this marks the first official introduction of the sport to MIT players. An enthusiastic group meets at the swimming pool every Tuesday evening from 6:00 to 7:00 for practice and scrimmage.

To the uninitiated, the game resembles soccer in a swimming pool: the seven man teams play with a ball similar to an official soccer ball, and the goals are cage-like affairs at each end of the pool. Play is made more demanding because players only touch the ball with one hand at a time and cannot take the ball below the surface of the water. Body contact is only allowed when an opponent is touching the ball. A game is fast and furious for its 30 minutes in duration.

Team captain Bruce Shore has announced that there is still opportunity for novices to learn the game before competition begins. The main requirements are a strong swimming stroke and the ability to swallow water gracefully. Prospective players are invited to attend one of the regular Tuesday evening practices, and can obtain further information by calling Bruce Shore at extension 3226.

**MIT Musical Clubs Hold Free Concert In Kresge Oct. 24**

On Saturday night, October 24, the Combined Musical Clubs at the Institute will present a concert featuring the third movement from Randall Thompson's "Testament of Freedom," performed jointly by the Concert Band and Glee Club, and "Kinhaven Suite" by Gregory Tucker, professor of music at MIT, performed by the Symphony Orchestra, John Corley conducting.

The text of Thompson's "Testament" is derived from writings of Thomas Jefferson; the third movement, specifically, comes from an essay titled "The Declaration of Causes and Necessity of Taking Up Arms." Other selections of the 85-member Glee Club, conducted by Klaus Liepmann, include two madrigals, "Matona, Lovely Maiden," by Orlando di Lasso and "Tutti Venite Armati," by Giovanni Gastoldi; "Warning," by Mozart; "Plorate, Filii Israel," by Giacomo Carissimi; a German folk song, "Der Jager aus Kurpfalz"; and the traditional chanty, "Shenandoah."

Other participants in the program will be the MIT Brass Choir and the Tectonians, a 16-member concert jazz band. The concert will begin at 8:30 P.M., and will be open to the public without charge.

On Sunday, October 25, the New York Pro Musica, performers of medieval, renaissance and baroque music, will open the 1959-60 MIT Humanities Series with a concert in Kresge Auditorium at 3 P.M.

**Technique Option Sale**

The Technique option sale will take place all through next week, from 10 A.M. to 2 P.M. On Monday, Tuesday, and Friday, the booth will be located in Building 10; on Wednesday and Thursday, in Building 2. Options can be bought for \$3.00, which entitle the holder to purchase a copy of the 1960 Technique for \$4.00 additional.

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**Brookhaven Open House**

Brookhaven National Laboratories is holding an open house for college juniors and seniors. It is scheduled for the 23rd of October, and those interested in attending are urged to contact Mrs. Mariette Kuper, at Brookhaven National Labs, Upton, Long Island, New York, as soon as possible.

Activities will include lectures, visits to facilities, and discussions with staff members, and will last from 10:30 A.M. to 5:00 P.M. Since the laboratory is located 75 miles out in Long Island (2½ hours from New York), those interested in going should make transportation arrangements well in advance.

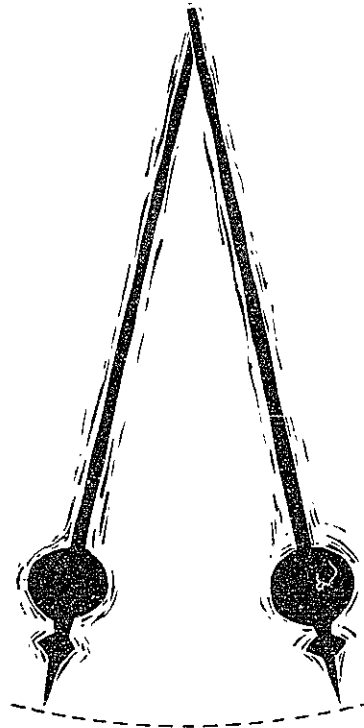
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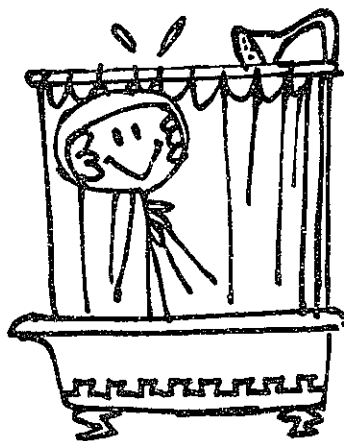


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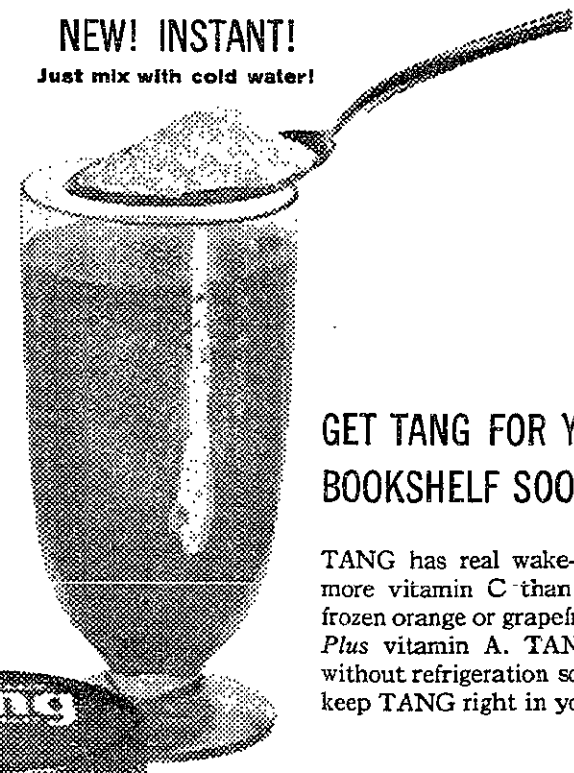


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