Johnston To Support Mississippi Race Stand In Civil Rights Debate

Erle Johnston, public relations director of Mississippi, will speak tonight at 8 p.m. in Kemen Auditorium in defense of his state's stand in favor of the "separate but equal" doctrine. His talk is sponsored by the Civil Rights Committee; audience participation is expected.

Last month, on Jan. 11, the executive held a meeting in preparation for this talk, with the purpose of assuring "that there are enough people in the audience who are capable of asking carefully constructed, intelligent questions."

Next week, on Feb. 15, a reprinted speech will be given by James Letter, the national director of the Congress of Racial Equality, in Room 20-100 at 8 p.m. In answer to this week's talk, Letter will discuss a non-violent approach to the problem of race relations.

Both meetings are open to all, with no admission charge.

I Hate Cops' VooDoo Brings Police Complaint

The police departments of Cambridge and Boston are officially registered complaints with the Dean's Office about the "I Hate Cops" issue of VooDoo. However, it appears un

Levy, Bowman Declare In UAP Race; March Elections Are Slated

Woody Bowman '63 and Frank Levy '63 have announced that they will run for the office of Undergraduate Association president in the forthcoming elections this March.

Almost any undergraduate student who will be a MIT for all of the 1962-63 academic year may legally seek for UAP. Candidates, however, must have a petition signed by at least 300 of their classmates.

Both meetings are open to all, with no admission charge.

Increased Use Of Computer Speeds Registration

By Thomas F. Arnold '64

Freshman registration is now smoothly Monday due to an increased use of the HIM 7000 in MIT's Computation Center. The computer processed programs for all but a handful of freshmen, including those with high sections. As a result, those who had advanced standing in freshmen subjects. Less than a dozen freshmen had programs so unusual that they had to be made out by hand.

Freshmen received cards, punched and printed by the computer, which had gotten them the coming to be taken and the time they would meet. With the exception of those who had already acted quickly on the subjects they were about to take, registration in a week became very easy, they continued on Page 12

Registrar's Day was marked over again by long lines, notably in Md 16. 急性 is which all cards were being distributed. Also, the computer punched out additional information in an automated (10) device which stamps schedule cards on the basis of all cards for ESC registration.

447338
Married Students Housing

Housing complex for married students to be built on West Campus.

Work will start immediately on the construction of five buildings to house married students at MIT. They are to be completed by the opening of the academic year in the fall of 1963, under a contract awarded to the Wexler Construction Company of Newton, Massachusetts. The project, to cost $2,900,000, was made possible by a loan from the Federal Housing and Home Finance Agency.

The housing complex will con-sist of a concrete and brick structure, containing 150 apartments, and four three-story buildings, having a total of 60 apartments. It will be located near Memorial Drive at the west end of the MIT playing field. This area was formerly occupied by wooden barracks erected at the end of World War II to house married students. One-fifth of MIT students are married.

Since the basement of the tower will be approximately 20 feet below the surface of the Charles River, the water table at the site will have to be lowered by pumping before any excavation can be started, according to Philip Jackson, Wester vice president and general manager. A “floating” foundation will support the tower, the weight of the structure approximating the weight of earth displaced by excavation. A special crane, which will take the place of the building crane, will be imported from Europe but use on the job.

The student’s housing is not a part of the Second Century Program under which MIT receives $6,000,000 for the advancement of education, alongside more than $30,000,000 in new buildings.

Phone Cable Repaired After Being Severed By Steam Shovel

The cable connecting the East Campus and West Campus telephone lines was severed by a steam shovel at the base of the construction of the Earth Sciences Building. Although the line was not expected to be repaired until next week, a satisfactory system was established as of February 13. The cable was rerouted through a duct from Building 8 to Walker Memorial. From Walker, the line runs to the East Campus parallel to and then to Senior House.

It was announced that, if funds can be appropriated, East Campus will have dial phones, replacing the outdated switchboard there by the end of next summer. This would complete the installation of dial phones in the dormitory system, and all inter-dormitory calls will then be direct dial.

The new cable connecting East Campus and West Campus as now follows the conduits of the Institute phone system and can carry 25 calls at a time. At present, five lines connect Walker to Baker House and ten connect East Campus to Graduate House. When the complete system is completed, the telephone lines from this new cable will be utilized.

Holes Bored Using Water

High pressure water is used to bore holes in the Earth Sciences construction site. First day of holes will be attached to the large horizontal pipe and will be used to drain the site of water when large scale digging commences.

Appear In N.Y. Times

MIT Prof Letters Oppose Shelters, Unlimited Tests

By Don Goldfield ’65

Two letters to the editor from MIT professors were published in the New York Times. They responded respectively, following the “shelter” program and a policy for testing nuclear warheads.

Cristol E. Earle Letter

The letter on shelters was a response by Professor Opren.

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- Environmental – relating to air conditioning, pressurization, and oxygen systems.
- Human Factors – analysis of environment affecting pilots and space crew, design of cockpit consoles, instrument panels and pilot equipment.
- Heat Transfer – relating to missile and space vehicle structures.
- Structures – relating to cyclic loads, temperature effects, the investigation of new materials, methods, processes.
- Aerodynamics – relating to wind tunnel, research, stability and control.
- Solid State Physics – relating to metal surfaces and fatigue.
- Space vehicle and weapon systems studies – of all types, involving a wide range of scientific and engineering skills.

Get full information at INDIVIDUAL ON CAMPUS INTERVIEWS with a Douglas representative February 19, 20, 21

We urge you to make an appointment through your placement office. If you cannot, please write to:

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Debunking “Shelter” Rattling

The professors stated that many advocates of the shelters saw in the program a way of lending credibility to the American nuclear deterrent, which could permit a lowering of American foreign policy and an increased use of military threats, rather than negotiations, in dealing with the Soviets. “This shelter rattling,” in fact, makes the civilian population a dangerously exposed pawn in the strategie game of deterrence, if the shelter program is as ineffective as we may otherwise believe.

The recent letter also questioned Mr. Chamberlin’s statement that the United Nations is currently pursuing “quite effectively” a positive program for peace, advocated by the Open Letter.

Arma Limit Proposed

The letter on nuclear testing pointed out that the original letter, together with its re-printings in newspapers by other groups, had gained the public support of about 4,000 members of college faculties and hundreds of professional and other concerned citizens, stating that Chamberlin “did not question our argument to the effect that the need for nuclear testing by the United Nations is quite apparent.”

- SENIORS!

- Captain Henry Barklow, Air Force Training School Chief for New England, will conduct interviews Today, February 7 and Tomorrow, February 8 at the Student Placement Bureau. Individuals desiring an appointment must be available to contact T/Sgt. Frank D. Small 8330 from 8:30 a.m. to 5 p.m., or at EK 5-2077 after 7 p.m. Unlimited opportunities are available for qualified applicants. Positions as pilots, navigators, mathematicians, physicists and many others are open.

Interviews by Appointment Only!
Gigacycle Computer Planned

Gigacycle computers may be constructed within the next few years, it was reported at conference of the American Institute of Electrical Engineers last week in New York City. Gigacycle computers are the fastest available at the present time. Their dimensions are huge compared to the previous gigacycle computers, which must be enclosed in a box much more than six inches long. This is because an electrical impulse in a gigacycle computer circuit will travel from x to ten inches in one-thousandth of a second.

Because the computers will be smaller in size and will require fewer components, they will be much more economical. At much more than six inches long. This is because an electron analysis and handwriting recognition are among which are beyond the powers of present-day computers.

By contrast to the Ford launching of Vanilla Planes, last week (NEWS, Feb. 4), fewer problems can actually be built, and divisions at 32,700 per second. Input or output of data with the new computer will be facilitated by two smaller, auxiliary IBM 1401 computer systems. A feature of the 1401 is a printing unit that converts data from magnetic tape at a rate of 600 lines of printing a minute.

The expanded computing facilities at MIT reflect increasing demands for computers. In the center, the number of students and faculty participating New England colleges has more than doubled. The number now stands at 30, of which 15 New England institutions have now acquired or ordered computers of their own.

At the same time, activity at the Computation Center has increased markedly. In the center’s last semi-annual report, Dr. F. J. Corbato, associate director, noted that the first six months of 1963 represented the period of heaviest activity ever experienced at the center. The computer was used around the clock and, in periods of peak activity, seven days a week. In 1963 alone, computer usage was equivalent to that of the entire first three years’ operation of the Computation Center.

Professor Jerome Arnold Uram, Associate Professor of Food Toxicology at MIT, and his wife were killed late Sunday when the DC-3 in which they were flying crashed. They were among 25 passengers and crewmen who perished. In a wreck which killed a total of eighteen people. Dr. and Mrs. Richard J. Block of New York, distinguished chemists, were also killed in the crash, which was believed to have occurred when the plane was hit by lightning during a heavy rainstorm.

Dr. Uram and Block went to Peru two weeks ago on behalf of the Institute and the Nutrition Study Section of the National Institutes of Health. At the time of the accident, they were flying to Palmas, a village at the headwaters of the Amazon River, where field trials were to be made of a new low-cost protein-rich vegetable mixture under severe tropical conditions.

Dr. Uram, 35, joined the Department of Nutrition, Food Science, and Technology last July. Before that, he had been the Executive Secretary of the Nutrition Study Section of the NIH, and had also been a biochemist for the Division of Nutrition of the Food and Drug Administration in Washington, D.C.

Dr. Uram, who received his B.S. from Harvard, was a consultant to the Food and Agriculture Organization of the United Nations, and had also been a consultant to the Pan American Health Organization, an affiliate of the World Health Organization.

**Faster Than 709**

**7090 Answers Increased Computation Demands**

A new all-transistor IBM 7090 data processing system is now in operation in the Computation Center, installed by International Business Machines Corporation for use at the center, the machine, valued at $4,500,000, is available at no charge for the educational and research use of MIT and other New England colleges.

The 7090 is up to six times faster than the center’s previous machine, an IBM 709, yet occupies approximately half as much space. In the rejection of the former machine are magnetic tape units, and against 13 with the 7090, average processing speeds of the 7090 are: additions or subtractions at an average rate of 229,000 per second, multiplications at 130 per second, and divisions at 37,700 per second. Input and output of data with the new computer will be facilitated by two smaller, auxiliary IBM 1401 computer systems. A feature of the 1401 is a printing unit that converts data from magnetic tape at a rate of 600 lines of printing a minute.

The expanded computing facilities at MIT reflect increasing demands for computers. In the center, the number of students and faculty participating New England colleges has more than doubled. The number now stands at 30, of which 15 New England institutions have now acquired or ordered computers of their own.

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Professor Morse also reported that the use of the Center’s facilities by the schools was expanding rapidly. "We estimate that, by June 1, 1962, more than 1,000 students per year will have direct contact with the equipment, in a network of mandatory house and regular courses in which they have registered, in addition to the 300 or more students per year using the machine for research purposes. The number of students registered for the Center’s cooperative courses in 1961 alone, 1962, increased by 30, of which 15 New England institutions have now acquired or ordered computers of their own.

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Letters To The Editor

In Defense of the LSC

To the Editor:

It seems to us that MIT's new Student Union facility is more than a place where students should come to read newspapers while eating. It seems to us that the MIT administration wants to turn the LSC into a club house where the students will congregate, socialize, and engage in activities that will be pleasing and entertaining. We feel that the LSC is much more than just a place to hang out; it is a place where students can express their ideas, engage in debate, and participate in activities that will help them develop as individuals.

Mr. Lieberman stated that the LSC is "doing these things." We believe that the LSC is an organization that should be evaluated on its own merits, not on the basis of how much money it makes or how many people it attracts. The LSC is a service organization that provides a variety of services to the MIT community. It is not a commercial venture that should be judged solely on its profitability. The LSC should be evaluated on the basis of how well it meets the needs of the MIT community, and how well it serves the interests of its members.

We feel that the average audience at an LSC movie is more "disinterested" than the films which are shown. It is not valid to use the "audience, (wholes and (caters) as measure of the quality of the movie. These expressions of immaturity are not accurate and cannot be heard during the most exciting moments of the film. We believe that the LSC is an important organization that provides a valuable service to the MIT community, and we urge the administration to support it fully.

Mr. Lieberman, we urge you to reconsider your decision. The LSC is a valuable organization that provides a variety of services to the MIT community. It is not a commercial venture that should be judged solely on its profitability. The LSC should be evaluated on the basis of how well it meets the needs of the MIT community, and how well it serves the interests of its members.
The Displaced Person's Almanac

Modern day society seems to be much like the proverbial weather—everybody complains about it, but nobody seems willing to do anything about it. Foremost among today's complainers is John Fairman Brown, whose The Displaced Person's Almanac (Beacon Press) 3.50 135 Pages

particularly order, and tax not even all together, may have read the whole book to get a good group of his ideas, and then do some back-checking to correlate all Mr. Brown has written. But, since the book can be read in an evening or two, it would be worth the while of anyone who would like a little light entertainment plus a new outlook on the world around them.

The Guns of August
by Barbara W. Tuchman
The MacMillan Press $6.50

The shock of the opening clash in August, 1914, and the thirty days of battle which followed determined the course of the First World War and the shape of nations in our time: The first volume is the subject of The Guns of August, by Barbara W. Tuchman. The Germans, French, English, and Russian General Staffs had planned for war since 1911, but the ramping up of this massive military machine had been delayed by a series of false alarms. The first battle was fought at the battle of the Frontiers, and the fighting in this month was the Battle of the Frontiers, and the battle was a holocaust. The bloody catalogue of the battles of that August includes the most important names of Europe: Tannenberg, Mons, the Battle of the Frontiers and the Battle of the Frontiers. Each battle signifies the careers made or broken, the valor and indiscretion, the generation of European lives. The shock of the opening clash in August, 1914, and the thirty days of battle which followed determined the course of the First World War and the shape of nations in our time: The first volume is the subject of The Guns of August, by Barbara W. Tuchman.

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Peace Corps To Give Placement Examination At Harvard Sunday

The Peace Corps will give its first examination on campus to interested students. It will be held in the Healy Hall Auditorium at the Harvard University Memorial Hall, 8:30 a.m., February 15. Memorial Hall is located at Kneeland and Cambridge streets in Cambridge.

In order to work with the Peace Corps you must be a student in Africa, Asia, and Latin America, and have had the training to do so. Students must meet the requirements of the Peace Corps, including a clear background and a willingness to work with the Peace Corps.

Two types of tests will be administered: one for applicants with bachelor's degrees who wish to be considered for positions as secondary-school or college teachers,
COOP Celebrates 80th Anniversary This Month

By Tom Maugh '63
Part 1 of Three Parts

Prices were on the rise in Harvard Square, and a group of students, finding it difficult to meet their expenses, banded together in 1882. Charles Hayden Kim, a junior at the time, called a meeting of some of his fellow students in an attempt to alter the situation. From this meeting emerged the roots of the Harvard Co-operative Society, better known to most students as simply the Coop.

Providing Varied Services
The first Coop was little more than a shelf in a Harvard Square fruit store, but it provided its members with the following services:

1. A place of a club—books and reading materials. (Ed. Note: Next week the author will investigate the structure of the society's governance and management.)
2. A place of many a meeting. (Ed. Note: Next week the author will investigate the structure of the society's governance and management.)
3. A place of many a meeting. (Ed. Note: Next week the author will investigate the structure of the society's governance and management.)
4. A place of many a meeting. (Ed. Note: Next week the author will investigate the structure of the society's governance and management.)
5. A place of many a meeting. (Ed. Note: Next week the author will investigate the structure of the society's governance and management.)

Incorporated in 1895, the Coop was set by financial troubles for the first few years (due mainly to a lack of adequate bookkeeping and auditing), it managed to break even and in 1903 incorporated, adopting the present constitution and by-laws. It was also during this same period—1895—that the membership fee was lowered from its original $2.00 to the present $1.00.

In that same year, the medical school branch of the Society, located on Boylston Street, was sold, thus ending the Coop's first attempt at branching out. Other branches included Thurston's-at-the-Square, which operated from 1899 to 1939, a store in Pittsfield, New York, which lasted from 1917 to 1918, the School of Business store, which was opened in 1927, and the Technology Store.

Enter MIT
MIT had apparently set up a co-operative society in 1899, while it was still in Boston, but this was a loosely-knit organization which operated through an adjacent book and stationary store. The manager, a former Tech student, sold to all comers at the going prices, but offered a 10% discount to anyone who could prove that he was a member of the Technology Co-operative Society.

When MIT moved to Cambridge during the period from 1914 to 1926, Institute officials began looking for a new store to provide goods for the students. Since a bill had been passed through the Massachusetts legislature providing for the marriage of MIT to Harvard, officials asked the Society to set up a branch in Cambridge. Although the proposed marriage of the universities was never completed, the Coop became a growing reality.

To WGBH Building
The first Technology Store was established in the recently completed WGBH building in 1931. It did a thriving business, and soon became an integral part of the Society.

In 1937 a new Technology store was finished and occupied on the present site. It contained the store and shoehouse, a barber shop and a lunch counter. Before the building was completed, somebody painted across the front of the store in large letters, 'Tech Is Hell.' This is an affectionate translation of the Institute's motto, Ment et Manna.

The Technology Store has grown much more than that since that day in 1937, with the expansion of the departments and the installation of food-vending machines. The store sells magazine subscriptions, Independent studies and theses, books in laundry and dry-cleaning, both repair and rental typewriters, repair shoes, develops and prints films, and repairs fountain pens.

In addition, the member may go to the Harvard Square store for tailored clothing, luggage, home furnishings, electrical appliances, optical needs, perfume and cosmetics, picture framing, cashing checks, and having papers notarized.

Moreover, there are at present two Coop-associated gas stations, which offer patronage refunds to the members.

The Coop has performed many other valuable services also. It was the long-term lease which the first Technological Stores取出 that enabled the construction of the old WGBH building which recently burned to the ground. Moreover, the Coop's large amount of advertising has undoubtedly helped many a campus publication to remain on its own financial legs.

Truly, the MIT and Harvard communities owe an indubitable debt to the Harvard Cooperative Society.

Power from below

The Lawrence Radiation Laboratory is working in the areas of Nuclear Propulsion, Controlled Thermonuclear Reactions, Nuclear Explosives for Industry and Defense, Space Physics, and other advanced problems in Nuclear Physics and Engineering.

ON FEBRUARY 26 & 27 Laboratory staff members will be on Campus to interview outstanding students in the Physical Sciences and Engineering.

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LAWRENCE RADIATION LABORATORY
of the University of California
Berkeley and Livermore, California

An artist's concept of Project Gnome, a step toward providing power and isotopes from underground thermonuclear detonations. This area of endeavor is part of Project Foweshow, initiated at the Lawrence Radiation Laboratory of the University of California. Other Foweshow projects under the direction of an experimental harbor in Alaska, production of oil from tar sands, control of groundwater, mining applications, and other novel ideas using the energy of nuclear explosives.
The official policy statement of the Walk in Washington project is not without its shortcomings, but as a whole represents a forceful and mature document, as you will see. I would like to make a few general comments on some of the proposals for a reversal of the trend embodied in the unlimited arms race statement. The statement, which will be given below, has been adopted by the participants personally to Congressmen and other government officials and distributed to the public during the demonstration on Feb. 16 and 17, has already won the endorsement of many leading Americans, such as Eleanor Roosevelt, James R. Newman and Norman Cousins.

The seven-page paper is brief and concise, considering the broad area it covers and the many propositions it defends. It is divided roughly into three sections: (1) an analysis of the many dangers involved in the arms race; (2) a discussion and rejection of “two false steps,” nuclear testing and civil defense; and (3) a program of initiatives open to the United States for furthering the “peace race.”

The analysis of the arms race is a moralistic but a rationalistic one, contending that the essentially militaristic principles it is trying to defend is completely repugnant to the principle of political conditions conducive to maintain the status quo, even if these means and desperately sought to lit hias merely opposed communism. The U.S. has responded to this challenge by fighting a rear-guard action around the world. Soviets have met this challenge, by a policy of disarmament, and of aiming anti-missile missiles are considered in the United States for furthering the “peace race.”

I. F. Stone to Address Walk in Washington

A briefing session for students planning to visit Congressmen in connection with the Walk in Washington demonstration will be held February 10 beginning at 8 p.m. I. F. Stone, a popular Washington correspondent, will address Boston area students concerning the Walk and its proposals for American cold war initiatives. He will also receive detailed instructions for their Congressmen in connection with the appointments from members of the Boston Coordinating Committee.

II. Other Proposals

The Walk in Washington proposals for American cold war initiatives is introduced by a brief statement of their general character and rationale: "The United States must act to create conditions in which all nations can organize to end the arms race, and thus hasten the United States into a nuclear war even less "inturnings'",

The list of proposals is intended to exemplify an approach which we believe can generate a meaningful peace and sustain and extend the free world's war trying to uphold the fire of opposition and international credit. The ultimate goal of such negotiations must be a structured peace: a disarmed world under international law.

UN Atomic Surveillance

The proposals themselves encompass the following areas:

1. As long as the U.S. of no atmosphere and from the field of inspection treaties currently under negotiation in the U.N., to persevere for these agreements, as well as to extend their terms are 13, a reputation (e.g., Egypt), we are not in this issue and campaign to get the nuclear powers to agree on a new nation or alliance and not to be the first nation to give nuclear weapons to a new nation or alliance, and not to be the first nation to give nuclear weapons to any new nation or alliance, and not to be the first nation to give nuclear weapons to any new nation or alliance.

III. Withdrawal of nuclear bases overseas, which are a common area of concern, and to establish national sovereignty in the absence of superpowers.

IV. Expansion of technical assistance and educational aid to underdeveloped nations, in cooperation with the U.S. as a worldwide political and economic issue.

V. Strengthening of the U.S. Commitment to disarmament, by giving it higher priority in national budgetary allocations.

VI. Expansion of research on weapons of mass destruction and other potential threats to world peace.

VII. Support for Food for Peace, and the establishment of Food for Peace agency to distribute food aid using a new approach in collective security. The emphasis is on collective security and not on international law.
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A representative will be on
campus to discuss how you
might fit into the age of atomic
power.

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Why not set your placement
director for career guidance
and more information about
New England Electric System?

INTERVIEWER: Robert O. Bigelow
DATE: Wednesday, February 14

NEW ENGLAND ELECTRIC SYSTEM
441 STUART ST. 
BOSTON, MASS.

Advocates Turn Toward Peace

Peace Walkers Offer Berlin Solution

(Continued from Page 8)

Perpetual motion?

Not! But scientists and engineers
at Ford's research and scientific
labs do deal in perpetual motions — and they have more than a few
about what might be common
places in the future, some of them
just as startling.

Studies at Ford involving new
energy sources and improved
materials may help bring jet-
propelled cars with gyro stabilizers... automatic driving controls...
flying automobiles and wheelless
vehicles that glide on a cushion of air... vehicles propelled by atomic energy... plastics
with the strength of conventional metals... adhesives that replace
welding... radar and other
electronic controls to assist or replace
the driver in many situations.

Basic studies in these and other
fields are just part of a continuing
program of progress aimed at
Ford's leadership through scientific research and engineering.

shortcomings is the total absence of
documentation in the form of
references, statistics, authoritative
gaps, and the like. As one
point, "studies of major
disasters" are mentioned, but
wonders which studies are
meant and what they specifically
were. In another way, there is a lack of specific
evidence to prove the
points that are brought up. Edi-
torally, the paper seems to
indicate a high confidence in
making the rear edge at a gross
failure example would provide
unavoidable statements on con-
vincing the skeptical reader.

BALANCED AGAINST these
critics is a very important asset:
the paper is effective and
specific without being long-
ted and technical to the point of
boring or confounding the reader.

All in all... The policy statement, when
viewed as a compromise be-
 tween divergent views from all
over the nation, and as a stu-
dent "first" in terms of its
breadth and depth of analysis,
deserves careful study and con-
sideration. Hopefully, it will
serve as a "jumping off
point" for serious discussion and
debate of American foreign
defense policies on campus
and, perhaps, in the nation.

The Walk in Washington
must do more than write a pol-
cy statement, however, to be-
come a real success. The prob-
lem of money raising, transpor-
tation, appointments with
government leaders, is
enough. The encouragement of distin-
guished Americans to
encourage students to ac-
tively participate in the Walk,
are considerable and certainly
unprecedented on a national
scale. They will be considered
in next week's issue of The Tech.
HARK! OUR MAN IS ON THE WAY...

to explain what our STOPH means to all sizes and shapes of graduating seniors. (Hint: it's a key word that stands for the five factors you consider most important in selecting a job.) Our man will be in the Placement Office on FEBRUARY 

Avoid the crush. Sign up now for your appointment.

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Use The Tech Classified Column

SIC FLICS

“Another Chesterfield? But I just gave you one last week!”

21 GREAT TOBACCOS MAKE 20 WONDERFUL SMOKES!

GET WITH THE GRAND PRIX ... ENTER TODAY, ENTER INCESSANTLY!

---

IM Prof. McGregor Wins Award For Book

Douglas M. McGregor, Professor of Industrial Management, has been named the winner of the second James A. Hamilton - Hospital Administrator's Book Award, for his book, The Human Side of Enterprise. Professor McGregor received a special medal for his book, "adjudged an outstanding contribution to the literature on administration" at an Awards Luncheon in Chicago, Saturday.

Professor McGregor, whose book was published in 1960 by the McGraw Hill Book Co., is a nationally prominent leader in the field of industrial human relations. His specialty is social psychology and its application to personnel and industrial administration. He has been in his present position at MIT since 1954.

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THE TECH, Walker Memorial, Cambridge 39

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Clevite's GRADUATE ENGINEERING PROGRAM leads to excellent assignments in . . .

As one of the world's leading suppliers of the fabulous semiconductor devices so vital to the age of automatic computers and space flights, Clevite is offering to properly qualified graduate engineers, unique, varied and gratifying career opportunities in research and development.

To qualified engineers who elect to join the Clevite Transistor team, the firm offers a variety of in-plant training courses leading to key posts in research, development, application and sales.

If your interest is in Physics, Electronic Engineering, Chemical Engineering, Metallurgy or Mechanical Engineering, and you would like to explore a career opportunity with Clevite, please write to W. E. Cunningham, Engineering Placement Director, and include your official grade transcript. All inquiries will be promptly acknowledged.

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ON CAMPUS INTERVIEWS

Our representative will be on campus Feb. 8.

Your placement office will provide the details.
**Placements Interviews**

Interview appointments are obtainable at the Student Placement Bureau, 1-173. Course numbers eligible are listed in parenthesis. All degree levels sought unless otherwise indicated. Abbreviations: 8-B, 8-D. M. B.D. or S. 6-D.

**February 7**
Raytheon (3, 6-B). Sperry Gyroscope (6, 7); Sperry Microwave Electronics (6, 8); Central Intelligence Agency (2, 3, 6, 8, 10, 12). (1, 4, 15, 16, 18, 19, 22); Area 12, 5, 6, 8, 10, 16, 18; Bell Aerospace Systems (1, 2, 4, 5, 6, 10, 12); Bell Telephone Laboratories (1, 6, 8). 1, 8-D. Space Management (3-B). Texas Instruments (2, 10, 16-D, 18); Cetron Electric Co. (1, 2, 3, 6, 8); General Electric (2, 4, 6). Edgewood Chemical (2, 10, 16)."
During the between-term vacation a group of students in East Campus filled George Martin's ('64) room with ten inches of water and eight goldfish. In the first picture (left), the victim works at the switchboard, unaware that preparations are being made to flood his room. The plotters spread polyethylene plastic on the floor to hold the water and suspend the room's furniture on coke bottles (left center).
Irrigation Project

Slowly but surely, the MIT campus shows signs of expansion. A check with the Treasurer's Report of 1961 reveals that MIT now owns real estate as far away as Plattsburg, New York. But, also, we have been outdoors! According to *The Chicago Maroon*, the University of Chicago is now able to offer genuine Southern hospitality at its newly-reopened pre-Civil War mansion in Natchez, Mississippi.

The University has been left the half-million-dollar estate of a retired Chicago high school French teacher. In addition to the 141-year-old Mississippi mansion and its 50,000 acres of land, the estates includes "Skyband", a 490-acre cotton plantation near Charleston, Mississippi; one-half interest in "Idalia", a thousand-acre property next to "Skyband"; and eleven acres of what is described as "mountain property" near Bat Cave, North Carolina. But that's not all. Provisions of the will call for the establishment of six memorial scholarship funds from a bequested $65,723 in cash and $273,191 in stocks and bonds.

*Soldiers, Ghosts, And Cows*

When the Natchez mansion was purchased by the high school teacher in 1925, it was in such poor condition that even itinerant farmers refused to rent it. It was built in 1821 by William St. John Elliott, a wealthy cotton broker. During his lifetime, the Elliott mansion, gray and neglected, became known locally as "The Haunted House." As time passed, the ghosts of the two Yankee soldiers hanged at the mansion during the war became more and more adventurous. By 1925, the once-luxurious halls at Natchez were providing shelter for a number of neighborhood cows.

Since 1925, however, thirty-five years have been devoted to restoring the mansion to its original splendor. The mansion has become a major attraction of the Natchez Pilgrimage, a period when the stately pre-war homes of the Natchez area are opened for public inspection. Last year, about 300 people daily for a four-week period visited the University of Chicago's newly-acquired Southern estate.

*P. Future Campus?*

When North moves South, naturally South must move North. The Tulane Bullabaloo reveals that Tulane owns an island in the middle of St. Mary's River. The island was donated to Tulane in 1932 for a biological or scientific research center, a summer recreational or study center, or for any other purpose Tulane might devise.

Harbor Island, as far as river islands go, is rather large, being seven miles in circumference. The island has a sheltered harbor and is teeming with deer. It has become a favorite mooring spot for pleasure boats on summer cruises. Harbor Island, incidentally, is about as far north as one can get in the United States, being in Michigan, only four miles from the Canadian border.

*Up the Mississippi*

How does one get to this island? Tulane has come up with the answer. Swami Tulane's physical education department, in cooperation with the Red Cross, has come up with a new physical fitness program.

The goal for each person in the program is, by the end of the term, to have swum fifty miles. To get credit toward the goal, however, one must swim a minimum of one mile — eighteen laps — at a given time. Those completing the program will be given an inscribed medal. Tulane's swim coach says, "Nothing is more satisfying than a short swim after a hard day's work."

*New Dorm*

While Tulane students may be swimming from New Orleans to northern Michigan, Michigan States feels that students should not have to walk that far for classes. In fact, why walk at all? So, 1,200 lucky students will live in a new $5,000,000 dorm and will attend classes in the same new dorm.

According to Michigan State's chief academic advisor, "One of the objects of this new academic program is to help cut down the amount of travel a student has to do on campus."

This is being achieved in part by holding social science, language, and natural science classes right in the new Case Dorm.

Included in the five-story building are multi-purpose rooms for classes and social activities, space for a library and dining facilities. The dorm will house about 500 men and 650 coeds.

*New Auditorium*

Caltech is now in the process of building a new auditorium. The California Tech's a recent article, described the groundbreaking ceremony.

(Continue to Page 2)
Interested careers in research!

Attractive research opportunities in...

- Plasma Physics
- Physical Electronics
- Low Temperature Physics
- Aerodynamics
- Advanced Materials
- Chemical Reaction & Kinetics
- Evaluation
- Electronic Instrumentation
- Machine Computation

INTERVIEWS: Monday, February 12
See your College Placement Officer for an appointment and further information.

Engineers!

Regardless of your military obligation, or your graduate school plans, come in and talk with us now about a career in technical management. We'll need good men 2 and 3 years from now as well as today.

PROCTOR & GAMBLE
will be interviewing in the Placement Office for BS and MS degree level ChE, EE, IE, CE, and Math.

February 13, 14 and 15

We believe that, to a greater extent than any other company, Procter & Gamble provides opportunity for advancement on the basis of merit alone.

Procter & Gamble has a consistent record of:

a. Rapid growth and product diversification that continues to provide new technical management career opportunities year after year.

b. Employment of engineers directly from the campus to fill the needs generated by our expanding business.

c. Providing early responsibility after a training period suited to the man's own needs.

d. Promotion strictly from within on the basis of performance alone.

For summary information and detailed description of work areas, see our "Careers in Technical Management" literature in Placement Library.

An Equal Opportunity Employer
Wednesday, February 14

OPERATIONS RESEARCH CENTER:
Center: "The Construction of Reliable Computers from Unreliable Components" by Dean Arden, Professor of Electrical Engineering, MIT.

MIT HILLEL SOCIETY:
Study group: "Toward a Social Philosophy of Progress." Room 7-101, 5:30 p.m.

CHARLES UNIVERSITY:
Gala: "Sage Dance." Room 201, 8:30 p.m.

MIT HILLEL SOCIETY:
Study group: "A Social Philosophy of Progress." Room 8-101, 5:30 p.m.

ARTS GALLERY-
Temporary exhibit by Nelson L. Moritz, APSA, Washington, Pa. Exhibits are open to the general public. Displays will be changed periodically. The gallery is located in Hayden Memorial Library.

CALENDAR OF EVENTS

AUGUSTUS S. HAYDEN MEMORIAL MUSIC LIBRARY:
Organ Recital: "Organ Recital." Program: "Organ Recital." Room 6-201, 8:30 p.m.

ELECTRICAL ENGINEERS

Technical representatives of the MITRE Corporation will be conducting interviews on campus.

February 16, 1962

MITRE now has openings for talented men who want to work in the challenging new field of system engineering...a set of skills defined in only the most recent reference books. With MITRE, system engineering embraces such electronic command and control systems as the NORAD Intelligence Function and the manned bomber defense, SAGE.

The work is vital. Time for decision in aerospace operations has been compressed intolerably. Today's military leaders must have help in commanding forces of awesome strength. They need great quantities of information electronically transmitted, processed and displayed. This is the challenge of command and control...the work of the men at MITRE.

Formed under the sponsorship of the Massachusetts Institute of Technology, MITRE is a growing engineering research corporation with 1,600 employees, over 600 of which comprise the technical staff. It serves as technical advisor to the U. S. Air Force and other government agencies and engages in system design, conceptual planning, evaluation of electronic systems and research development.

Applicants will be made principally in the Suburban Boston area. Openings are also available at facilities in Washington, D.C., and Colorado Springs, Colo. Brochures describing the activities of the MITRE Corporation are available on request at the placement office.

ARRANGE FOR AN INTERVIEW THROUGH THE PLACEMENT OFFICE.

THE TECH

P.O. Box 208 - Bedford, Massachusetts

Important Announcement to Candidates for Baccalaureate and Advanced Degrees

MITRE Corporation is conducting interviews on campus as of February 16, 1962.

ELECTRICAL ENGINEERS

MITRE Corporation is seeking electrical engineers.

PHYSICISTS

MITRE Corporation is seeking physicists.

MATHEMATICIANS

MITRE Corporation is seeking mathematicians.

The work is vital. Time for decision in aerospace operations has been compressed intolerably. Today's military leaders must have help in commanding forces of awesome strength. They need great quantities of information electronically transmitted, processed and displayed. This is the challenge of command and control...the work of the men at MITRE.

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Applicants will be made principally in the Suburban Boston area. Openings are also available at facilities in Washington, D.C., and Colorado Springs, Colo. Brochures describing the activities of The MITRE Corporation are available on request at the placement office.

Subscribe to The Tech
**Della Reese To Perform At Donnelly Theatre Feb. 17**

Della Reese, one of America's great song stylists, will appear at the Donnelly Memorial Theatre on February 17 in a concert performance. Miss Reese will present a full one woman show entitled "From the Gospel to the Blues—Portrait of Della Reese."

This marks the first concert appearance in Boston of the famous gospel and blues songstress, who has been highly acclaimed for her many record albums, all of which are listed in The Classic Della.

Della began singing in church in her hometown of Detroit at the age of six. When she was thirteen, the great gospel singer Mahalia Jackson heard her and hired her to sing with the Jackson troupe. Since then, Della has risen to fame via television, radio, night club appearances, and records.

On the stage of the Donnelly Theater, Miss Reese will be backed by a full orchestra, conducted by Duke Ellington's son, Mercer Ellington. In addition, the Meditation Singers, which Miss Reese founded, will perform with her.

**APO Plans Concert By Limelights in April**
The Limelighters, a trio of folk singers, will give a concert of folk music at Kresge Auditorium Saturday, April 14 at 8:30 p.m.

Ticket prices are $3, $2.50 and $1.25 Ext. 2010.

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**SPACE TECHNOLOGY LABORATORIES invites you to discuss opportunities in the new era of Space Technology with members of STI's technical staff when they visit your campus on FEBRUARY 12, 13, 14**

**TODAY Space Technology Laboratories, Inc. is engaged in a balanced program of diversification and planned growth.**

**PROGRAMS.** Research, development, design, and construction of three Orbital Geophysical Observatories (OGO), and project coordination and systems planning for Project Relay, both for NASA. Design, fabrication and test for the Air Force-ARPA VEGA HOTEL Project to detect nuclear explosions in space. Studies for the Air Force-ARPA BAMBI Project, a multi-satellite system which can identify and destroy enemy ICBM's shortly after launch. Systems engineering and technical direction of the Atlas, Titan, and Minuteman weapon systems for the Air Force. Original and applied research in a broad spectrum of technical fields, particularly in solid state theory, guidance, space physics, communication theory, propulsion and power, and electromagnetic systems in the infrared, ultraviolet and microwave regions.

**FACILITIES.** Nearing completion on a 110-acre site at Redondo Beach, California, is the STI Space Technology Center comprising ten buildings specially designed for research and development in missile and space systems, for the fabrication and environmental test of subsystems and components, and for the production of scientific and technical tests derived from STI's sustained research program.

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**If you are now completing a program leading to a masters or doctoral degree, STI suggests that you investigate one or more of the following areas:**

- **THEORETICAL PHYSICS**
- **EXPERIMENTAL PHYSICS**
- **APPLIED MATHEMATICS**
- **SPACE PHYSICS**
- **SOLID STATE PHYSICS**
- **DIGITAL COMPUTERS**
- **SPACE COMMUNICATIONS**
- **GUIDANCE & NAVIGATION**
- **TELECOMMUNICATIONS**
- **REACTOR DESIGN**
- **MICROWAVE ELECTRONICS**
- **DESIGN**
- **MICROWAVE DEVICES**
- **ENGINEERING MECHANICS**
- **APPLIED AERODYNAMICS**
- **SYSTEMS ENGINEERING**

Please make arrangements with your placement office for interview appointment. Or, if unable to see our representatives, you may write to: College Relations, Space Technology Laboratories, Inc., One Space Park, Redondo Beach, California. STI is an equal opportunity employer.

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**SPACE TECHNOLOGY LABORATORIES, INC.**  A subsidiary of Thompson Ramo Wooldridge, Inc.

One Space Park, Redondo Beach, California.
Your Future in Electronics at Hughes

As the West’s leader in advanced electronics, Hughes is engaged in some of the most dramatic and critical projects ever envisioned. Challenges for your imagination and development are to be found in such diversified programs as:

- Project Surveyor (soft lunar landing)
- 3-dimensional Radars
- Plasma Physics, Ion Propulsion
- Solid State Materials and Devices
- Communications Satellites
- Digital Computer Systems
- Hyperspace Electronics
- Infrared

These are among the more than 500 outstanding programs now in progress at Hughes. These programs require the talents of EEs and Physicists who desire to work with professional scientists in research, development and manufacture.

In addition, Hughes sponsors advanced degree programs for academic growth. This program provides for advanced degree study at many leading universities.

Your chance to work with Electronic Engineers and Physicists - B.S., M.S. and Ph.D. Associates. Members of our staff will conduct CAMPUS INTERVIEWS February 19, & 21, 1962

Find out more about the wide range of activities, educational programs, relocation allowances and progressive benefits offered by Hughes, for interview appointment or information, consult your College Placement Director, or write: College Placement Office, Hughes, Culver City, California.

As usual, opportunities are available.
New College Rates at THE BILTMORE in New York

$5.00 per person (2 to a room)
$3.75 per student (2 to a room)
$2.00 single room
All Rooms Have TV
For information or reservations address Mr. Ralph Schaffner, 21 Lansdowne Street Madison Avenue between 101st and 102nd Street Murray Hill 7-7900

WHERE EVERYONE MEETS UNDER THE SKY!

SENIORS:
YOU’ D BE SMART TO TALK WITH THE MAN FROM
Con Edison

For both technical and non-technical graduates, Con Edison offers a career in New York—the most exciting city in the Country!

New York is ever-growing. To keep ahead of this dynamic city, we at Con Edison are now in the midst of a $1 Billion Program of expanding our vast electric, gas and steam services. This tremendous growth has triggered an immediate need for good men...men of vision and vitality.

Your job with us means a creative assignment right at the start. Our carefully planned program for college graduates offers a good starting salary and opportunities for rapid advancement... and there's nothing static about a job with Con Edison! Want proof?

Before most of today's graduates reach thirty-six years of age, no less than 776 top management positions at Con Edison will be filled by new faces...mainly through the Placement Office.

Be sure to speak with one of our interviewers when they visit your campus. Meanwhile, pick up a copy of our book, "Con Edison—The Right Place To Build Your Future." You'll find copies in the Placement Office.

Our interviewers will be here at:

M. T. I.
FEBRUARY 15

to tell you about the unusual job opportunities Con Edison can offer you.

Con Edison
OF NEW YORK

Classic Film Series
To Feature Live Piano Music For Silent Films

Several films with accompanying live piano music will be shown in the Lecture Series Committee’s spring classic film series. At least three of the films will have a pianist playing appropriate music, bringing to mind the days of the nickelodeon.

The first of this spring’s programs will be “The Blue Angel,” screening February 9. Starring Marlene Dietrich, this German film, made in 1930, is the story of a middle-aged woman who falls in love with a young and beautiful care free entertainer. (This film was recently re-made in a new version starring Marlene Dietrich.)

Other notable films in the spring list include: “Destry Rides Again,” “The Headless Horseman,” “The Magnificent Seven,” “Mexican Bus Ride,” and “All Quiet on the Western Ford.”

Blocks of tickets will be on sale in Building 60 during the first two weeks of classes, and at the door during the first two movies.

Preceding the silent films will be a program of expanding our vast electric, gas and steam services. This tremendous growth has triggered an immediate need for good men...men of vision and vitality.

New College Rates at THE BILTMORE in New York

$5.00 per person (2 to a room)
$3.75 per student (2 to a room)
$2.00 single room
All Rooms Have TV
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Preceding the silent films will be a program of expanding our vast electric, gas and steam services. This tremendous growth has triggered an immediate need for good men...men of vision and vitality.
If your field is

PHYSICAL-SCIENCE, ENGINEERING, MATHEMATICS

The fast-moving, fast-growing business to talk to is

THE BELL TELEPHONE SYSTEM

FEBRUARY 7, 8 & 9

when the Bell System Recruiting Team will be here. The Placement Office is now making appointments for interviews with representatives from the following companies:

BELL TELEPHONE LABORATORIES—world center of communications research and development
AMERICAN TELEPHONE AND TELEGRAPH COMPANY—Long Lines Department—builds, operates and maintains the world’s largest communications network
WESTERN ELECTRIC COMPANY—the nation’s largest manufacturer and supplier of communications equipment
SANDIA CORPORATION—design and development of ordnance phases of nuclear weapons
NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY, NEW YORK TELEPHONE COMPANY, operating companies of the Bell System responsible for engineering, construction, operation and maintenance of communication facilities

Our interviewers will be glad to discuss opportunities in other regional operating companies in the United States and Canada.

NEW ENGLAND TELEPHONE

An equal opportunity employer

---

If all the title box to come from

The movie abounds with good lines (in English, except for a little German in the background) I laughed the hardest when the Georgian heroine, in support of her boyfriend’s attack on capitalist imperialism, screamed out “Africa for the African!” But now, I’m a southerner, too.

The plot, of course, is utterly ridiculous. The whole movie is utterly ridiculous. The acting is not noticeable, and therefore good. Franklin Driggs and Hens Shekoff. Cagney’s too funny, very well in their supporting roles.

“The Two-Two-Three” is not really a seebleible movie. Not was it written to last. But it is very funny and fine entertainment, and the refreshing look at international politics.

Take no idea with you, for they will be ammned with a few dect words; but go.

Spring Weekend Planned

For May 4, 5, 6; To Have Formal Dance, Parade

Spring weekend, planned for May 4, 5, and 6, will be the first of what is hoped to become an annual event.

Plans for the weekend include a formal dance Friday night, a float parade sponsored by the IFC, Saturday afternoon, an entertaining Saturday night, and Tech Night at the Pops, Sunday afternoon.

The total cost for the weekend is expected to be $10 to $12. Neil Wetherby and Eric Bellow head the committee in charge of planning the weekend.

Get the Jetter made by

PARKER with the T-Ball tip

CHOICE OF

4 POINT SIZES

By Rostedia Wynnad, 62

James Cagney plays a different sort of villain in this abana-

nising political action. The scene is West Berlin; the Coca-Cola

plant in West Berlin of which James Cagney is the (stinking

imperialist capitalist) boss.

Cagney is busy trying to se-

tire his secretary (quite har-

nily and basically schoo-

col.), and sell Coca-Cola to the

(squeaking submissive Marxist)

Communists, and land the big

job in London, and put up with

his wife (Arlene Francis), and

keep tabs on the boss’s daugh-

ter (Pamela Tiffin) just in

from Atlanta, Georgia (‘‘Atlanta

is Siberia with mint juleps’’),

who of course falls madly in

love with a misguided East Ber-

liner (How, Balch). In

And in the midst of all this

infinit confusion everybody

gets out. Critics are insult-

ed, Communists are insulted.

Yamies are insulted. Southern-

ers are insulted. Liberals

are insulted. Conservatvres are

insulted. Federico Fellinl is insulted.

And even the shadows of the

Nazi, fall on the heel-clicking

office staff and are thereby

insulted.

All of the ingredients for

good comedy are present. The

plot starts off thick and soon

converges to a hilarious, hectic

mess with seven or eight sub-

plots, each of which turns out

to be an ideal vehicle for in-

vehicle. The action accelerate,

backed by an appropriate sulfer

dance. Into a mad dash domini-

ated by Cagney, snapping out

orders with a “Oro-Two-Three.”

TELEPIX

app. Staffer MA 4 1 LLE

Jerome Heits

THE SAND CASTLE

plus

George Stevens “SHANE”

The quality Balpen, Has

evasive textured T-BALL

point. Choice of 4 point sizes

for individual writing

preference. Giant-size

rotating ink tank.

Out-writes, out-performs

other balphens. Plastic

barrels in 5 attracive

colors. Stainless steel cap

with squared

American Clip.

TECH COOP

A project of THE PARKER PEN COMPANY

Owner of the World’s Best Wanted Pen
A Kennedy-Watcher Recalls The Year

The impression made by John F. Kennedy and his varied familial and political appeal on the American scene after one year of campaigning and one year in the White House,' when Time Magazine chose him as "Man of the Year," has been thoroughly blanketed from all angles, and the Duke and Duchess of Windsor's story seems to have lost a little of its luster in the retelling. Half the charm of the Kennedy saga is that it's a continuing domestic thing that readers never weary of. At least, not many of them.

The unemployment problem in one Southern town was nicely disposed of after the President himself was thinly photoshopped sitting in a rocking-chair (which led to the popular joke that Eisenhower, who was supposed to be slowing down a day while Kennedy, for all his vim and vigor, had taken to a rocking-chair.) A phenomenal rush on this furniture ensued, no doubt causing a multiplier effect on the economy.

Perhaps the President has been unwittingly the despair of one industry—the hairdressers. Recently however, he has been seen carrying a hat which may anticipate the beginning of the right in the right direction. Then too, Lyndon Johnson's penchant for the ten-gallon hats helped to take up the slack.

All in all, it's been a fascinating year in which Kennedy-watchers largely suppressed hair-watching as a hobby, and if I still haven't played touch football or ridden to the hounds I know what to wear when I do.

You are cordially invited to attend a private interview with a Special Representative of Lockheed Missiles & Space Company. Objective: Pursue mutual interests by examining the almost limitless fields of endeavor being investigated at Lockheed.

Lockheed Missiles & Space Company in Sunnyvale and Palo Alto, California, on the very beautiful San Francisco Peninsula, is constantly probing all the sciences related to missiles and space projects. These cover the complete spectrum—from human engineering through nuclear mechanics—providing a fascinating challenge to those whose interests lay beyond the ordinary day-to-day.

Lockheed's Systems Manager for such projects as the M dry POLARIS FBM and the Air Force DISCOVERER and MIDAS satellites, is an important contributor to various NASA programs involving some of the nation's most interesting and sophisticated concepts. As one of the largest organizations of its kind, the Company provides the finest technical equipment available; for example, the Sunnyvale facility houses one of the modern computer centers in the world. Every opportunity is given members of the technical staff to participate in the initiation of advanced technological developments.

Further, Lockheed strongly encourages continuing education and advanced degree work, maintaining two programs in their support.

Lockheed's Tuition Reimbursement Program remits seventy-five percent of the tuition for approved courses taken by professional and technical people who are working full time.

The Graduate Study Program permits selected engineers and scientists of outstanding scholarship and professional potential to obtain advanced degrees at company expense while employed on research assignments.

SUNOCO

SUNOCO

ON-CAMPUS INTERVIEWS

FEBRUARY 20th

* Indicates Permanent and Summer Positions Available In These Fields

STRAT. C.E. M.E. E.E. TECH. ECON.

BUS. AD.M. ACCID. ECON. IND. MGMT./ADMIN.

VISIT YOUR PLACEMENT OFFICE NOW TO SCHEDULE AN APPOINTMENT

If personal interview is inconvenient, write to Career Relations Division

SUN OIL COMPANY

1608 Walnut Street

Philadephia 5, Penna.
Underwood Corporation, a long established, youthfully aggressive company, has recently joined forces with Olivetti, Europe's largest manufacturer of office machines. With a complete range of electric and standard typewriters, and with distribution of Olivetti calculators, accounting machines, electronic and data-flow systems within the United States, Underwood now offers the most complete line of office machines ever to be available from a single source.

Because of this recent expansion of domestic marketing facilities, and an increase in overseas operations, Underwood has established an accelerated management program for qualified business school graduates. The objective is to place qualified men in corporate management as soon as they have indicated their readiness for this level. Aptitude and inclination will determine whether managerial assignment will be domestic or foreign.

Successful applicants will attend a four-weeks session at the Underwood training center. From here they will be assigned to Underwood marketing areas for on-the-job training. Duration of this training and future appointments are contingent solely on the progress and aspirations of each individual.

For information or to arrange for an interview, contact your Placement Director. A representative of the Underwood Corporation will be on campus Thursday, March 1st.

--- Photos by Conrad Grandlager '64
Pistol Team Wins Two, Loses Two; New England Sectionals Saturday

The varsity pistol team wound up the first semester in a burst of activity, firing five matches in nine days. On Friday, January 5, the team shot a score of 1362 in a postal match against Rutgers. The result of this match has not been received.

On the following Monday a score of 1342 was fired in a close match with the Arlington Rifle Club by a score of 1076 to 1362. Another match was held on Saturday, January 7, the team shot a score of 1375 in a postal match against Villanova.

This coming Saturday the MIT competed in the New England Gallery Championships at 7:30 p.m. at 6:00 Pizza. The Tech was scheduled to deliver the seventh Lincoln-Douglas Lectures in Kresge Auditorium. The citation for the award was "In 1918 when he joined the Air Force Academy, Coast Guard Academy, and University of Massachusetts, Coast Guard won the match with a score of 1399, followed by Air Force (1342), University of Massachusetts (1329), and MIT (1282). The MIT score of 1326 was won in a postal against Villanova.

MIT competed in the New England Gallery Championships on Saturday, January 7, and on the following Tuesday the team left for its annual southern trip and a series of shoulder to shoulder matches against Rutgers, Navy, Villanova, Merchant Marine, and West Point. This coming Saturday the squad will complete in the New England Intercollegiate Sectionals.

How They Did

Basketball
MIT 69, Sir Geo. Williams 33
MIT 76, Loyola 31
MIT 81, McGill 64
MIT 65, Clarkson 54

Hockey
MIT 6, Boston College (V) 4
MIT 7, AM Divemens 2
MIT 4, UConn L

Rifle
CUNY 1379, MIT 1352
Navy 1445, MIT 1370
MIT 1422, Villanova 1399
Army 1439, St. John's 1423,
MIT 1408, Buffalo 1388

Wrestling
MIT 29, McGill 3
MIT 17, Clarkson 9
Montreal YMCA 16, MIT 14
MIT 36, St. John's 19

Professor Lewis Receives Award
Prof. Frank Mendell Lewis, of the Department of Naval Architecture and Mechanical Engineering was awarded the Davidson Medal from the Society of Naval Architects and Marine Engineers at its annual meeting in New York, last November.

The citation for the award said, "In this day of large research organizations and giant projects, significant contributions to the frontiers of applied engineering science, which can be traced to individual efforts tend to become relatively few in number. Among outstanding contemporary examples of such contributions are those which must be credited to Frank Mendell Lewis."

In 1918 when he joined the faculty of the Alumni Master Webb Institute of Naval Architecture, he embarked upon the twin careers of research and education.

LESSON 1 - How to recognize a girl

It is not surprising, in these days of constantly changing fashion standards, that girls are easier to identify from the side. However, even the beginner will soon achieve proficiency from front and rear as well.

Certain popular items of apparel, such as slacks, baggy sweaters and boxy suits, contribute to this unfortunate situation. Therefore, we suggest that new students of girl watching start with the fundamentals (see above diagram). As you can see, girls are easiest to identify from the side. However, even the beginner will soon achieve proficiency from front and rear as well.

Advanced students can usually tell a girl from a man at five hundred paces, even when both are wearing baggy sweaters and boxy suits. (You might try offering the subject a Pall Mall, but you' won't prove anything. It's an extremely popular brand with both sexes.)


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Presented by Pall Mall Famous Cigarettes

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Liberal Religious Student's Union special screening seminar in a big way on February 11, 7:30 p.m., in the Aud.

FREE MEMBERSHIP CARD
Visit the editorial office of this publication for a free membership card in the world's only society devoted to discretion, but restless girl watching. Constitution of the society reads: "This is based on the book, 'The Girl's Watcher's Guide.' Text Copyright by Donald J. Senior. Drawings Copyright by Helen Dobson. Reprinted by permission of Harper & Brothers."

On Deck
Friday, February 9
Fencing - Columbia, Duquesne, 7:30 p.m.
Rifle - Boston University, Boston College, Away
Squash - Trinity, Duquesne, 7:30 p.m.

Saturday, February 10
Basketball - Lowell Tech; Away; 8:30 p.m.
Hockey - Wesleyan, home ride; 7:30 p.m.
Squash - Princeton, Duquesne, 2:00 p.m.
Swimming - Trinity, Alumn. Pool, 2:00 p.m.
Indoor Track - G.I.C. Meet; Away.
Wrestling - Massachusetts, Cape; 2:00 p.m.
Pistol - Intercollegiate Sectionals; Away.

Monday, February 13
Basketball - Leicester Junior College.
Matmen Spend Intercession In Canada

Eleven MIT wrestlers spent the mid-winter vacation on tour in Canada and upstate New York. The grapplers met with two athletic clubs, the Central YMCA and St. Jean Baptiste Lefrançois, both at Montreal, and two collegiate teams, McGill University of Montreal and the University of Potsdam, N. Y., accompanied by Coach Abel Sohier. Those taking the trip were Arnaud Habib, '63, and in the 183-lb class; Ricks Haly, '63, wrestling at 130 lb.; Dan Topick, '64, at 137 lb.; Terry Chatwin, '63, and James Evans, '63, both at 147 lb.; Tom Geretta, '63, at 157 lb.; and Paul Ohrnfeild, '62, at 167 lb.; George Barton, '65, at 177 lb.; and Ken Sato and John Sudeikies, both '64, and in the unlimited division.

They took on the YMCA team January 30. The Canadians used a markedly different style of wrestling from that to which the Techmen were accustomed, and the referee followed an altered set of rules. Matched against a decidedly heavier team and unfamiliar with the Canadians' style, the Tech wrestlers were edged out of a victory by a score of 16-14.

The following day, after Coach Sohier had initiated a new strategy for dealing with the Canadian wrestlers, Tech dealt a heavy blow to St. Jean Baptiste. This wrestling club, which had short-ly before defeated the YMCA team, fell to the Techmen, 30-0. Tech men, with the wrestlers of McGill, University Thursday, February 3, and scored a healthy 3-3 victory over that team.

After a day of traveling, Tech men met the understrength Central grapplers Saturday afternoon, February 5. A weight problem had developed enroute which resulted in the Techmen again being pitted against, much heavier opponents. Having forfeited the 177-lb class and wrestling on a loose patchwork mat, the Institute's matmen lost to Central, 0-10.

Rifle Team Wins Three Matches; Loses To CCNY By One Point

MIT's Rifle Team completed its annual southern trip last week with a three and four gun match against the top college squads in the country. Paced by captains Steve Smith, the Engineers consistently turned in good scores throughout most of the trip.

In the first match, the Techmen lost by a single point to City College of New York. Last year MIT's score of 1389 was the lowest of the trip. Last year MIT also lost to CCNY—this time by the margin of two points.

Next, the squad travelled to Annapolis, Maryland, for a match with the Midshipmen of Navy. Revenging a loss to the Engineers last year, Navy overcame MIT's 1433 in a 1434 to 1416. The Midshipmen are undefeated this season.

The Techmen came through with their first victory of the tour, by blanking Villanova 1222-1239 at the latter's range in Philadelphia.

Heading north for their next match, the team met the strong but somewhat erratic Merchant Marine Academy at New London, Connecticut. Once again, MIT was defeated, this time by the margin of 2 points.

In the second match, the squad travelled to Buffalo, N. Y., to meet the University of Buffalo. A strong showing by the home team resulted in a 1428-1391 score, the Engineers again losing.

The Techmen repeated their first win over the Midshipmen in the third match, winning by a score of 1445 to 1416. The Midshipmen are now the only undefeated team in the country. Paced by captain Steve Smith, the MIT shooters scored 1441.

In the final encounter of the tour, the team met Army and the University of Buffalo. Army and St. Johns are the top service academy schools, respectively. Falling behind early, the Techmen rallied for the last two rounds, coming within 8 points of pulling even.

The Engineers lost out in the last match, though they did record a victory over the home team. The Techmen placed third out of the four competing schools with a team total of 1406. Army was first with a 1431, St. John's finished second with 1433, and the University of Buffalo was last with a 1399.

Steve Smith was the top man throughout the southern swing. High man for Tech in four of the five matches, he scored an outstanding 287. In addition, he is the only man on the team to fire a first round of 99 and the mark was accomplished at Annapolis.

Three other Tech shooters displayed superior marksmanship with averages in the 280's. They are Bruce Peterson, '63, 281; Al Glina, '62, 282. The rest of the squad showed promise but didn't get settled down until the latter part of the trip. They are: Joe Poling, '64, Jerry Skinner, '63, George Ohiat, '62, Pete Hoffman, '62, and John Timoshenko, '64, and Jim Bridgeman, '64.

NEW MAP DISPLAY WILL SHOW PILOT WHERE IN THE WORLD HE IS

No matter what the weather, speed or altitude, an IBM navigational display being developed will let pilots find their positions on a moving map. With this new computer display for planes, a pilot will actually be able to see his position through the weather and around a cloud cover. In developing this display, IBM engineers and scientists solved a unique combination of optical and photographic problems. They were able to produce maps images with good resolution on the inside of a curved glass window, so that the light would nu-

Itminates a small section of this hemisphere and projects it onto a screen in front of the pilot. In flight, the computer controls rotation of the hemisphere, correlating it with the plane's superonic progress and the rotating earth. This approach to a computer-controlled map display suggests further application in a space navigation system, where a star map might be used instead of a map of the earth.

People with backgrounds in the sciences, engineering and liberal arts all contribute to the success of projects like this. At IBM, Ideas which create new products and systems can come from anywhere—from research, programming, manufacturing, and systems engineering. If you would like to work with people like your ideas can be as important as the ability to apply them to vital and exciting areas of development, you should consider the many opportunities at IBM.

The IBM representative will be glad to discuss with you the many areas in which IBM is making important advances. All qualified applicants will receive consideration without regard to race, color, religion, national origin, or sex. Your placement office can give you further information and arrange for an appointment. Or you may write, outlining your background and interests, to: IBM, H-16 Employment, Dept. 908, 590 Madison Avenue, New York 22, N. Y.

IBM will interview March 1, 2, 6, 8, 9, 10, 12, 13, and 14.
Cagers Extend Winning Streak to Seven

By Malcolm C. Beavestock '43
MIT's basketball team made a successful mid-term trip to Canada and returned to the New York state field winning all four of its games. Dave Koch, a sophomore from Wyoming, captured the weekly record at MIT by bringing his career record to 4-0, and this year's record to 6-0. The previous high was set by Bill McGill in 1939 with a 6-3 record. The Engineers had to weather two severe tests in the University of Montreal and Clarkson University.

First at Montreal
The Fan of three games in a row, the Engineers opened their tour against the Georgians of St. Michaels College in the Redman Memorial. Rate: 30-17
Ken Heans, Tech Lead
The second half showed little change in the score of the game, the Engineers were slightly off target, Dave Koch's and Joe Case's Tech lead was over 20 points. Their huge lead in the first half, the visitors began to pull closer, and after five goals each during the second half, the Redmen finally took the lead in the second period. When the visitors poured in their final three goals, the Engineers were fighting to hold their 20 points lead. The final score was 5-3, and the Engineers returned to Boston with a clean sweep of the Redmen.

Second at Montreal
The Engineers played their second game against the Redmen, also at St. Michaels College. The second half was a virtual replay of the first. After Koch had put the Engineers ahead 1-0 in the first half, the visitors poured in three goals before Koch took another 2-2 lead, only to see the Redmen build a 6-2 lead. Koch finally had a goal in the second half, but the Engineers were unable to catch up, and their final score was 7-3.

Third at Montreal
The Engineers took on the Redmen of McGill University in their third game in St. Michaels College. The Redmen had won both games against the Engineers in previous years, and the Engineers were determined to end the streak. George Wills of the Redmen took the lead in the first half, but the Engineers quickly adjusted to the game. Koch hit for 22 per cent from the floor, and he led MIT to a 19-19 ball game. Pots N.Y., where the Redmen lost a 2-1 lead in the second period, and Koch took the game into the second half. Koch quickly adjusted to the Engineers balanced scoring, and Koch hit for 22 per cent from the floor, and he led MIT to a 19-19 ball game.

Graduate Management Wins Over 25 In IM Basketball
Graduate Management Society emerged victorious over the twenty-five teams competing in the 1969-1970 season's ISSE. The team from Grad. Management Society was the top underdog team, winning its final game against the Celts.

The quality of these teams is judged by the number of players each squad placed on the Tech All Star Basketball Team, a recognition given by the Graduate Management Society and Graduate House. The Celts, with three players each, were the top team, with the Cosmos and Tridents each having two players selected.

The all star team held its first practice Saturday, scheduled to scrimmage the MIT teams and to prepare for the 1969-1970 season.

The best泛函 classified ad as of Sep 30, 1969, number five, 6, 7, and 8, 45.

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