Jaime deSola, '60, before the change...

The national spotlight fell on Mr. Riesel last April, when the attempt failed to silence Riesel even to lessen his effect on the...
The President Foresees . . .

It is too late now to tell the student body that MIT's president, Dr. Julius Stratton, spoke for over an hour in Kresge Auditorium last Thursday on "The Future of MIT." Thoroughly well attended, everyone at MIT, which stated that he no longer made his home at MIT . . . but only 100 people were present. The reason for this was to a great extent the publicity event, the thing was not at all that the President and the fact that so many students missed an experience which proved both interesting and enlightening to those who did attend.

Dr. Stratton did not confine himself wholly to MIT. He commented on change in the outside world, and the developments there which those changes. But of specific interest was the following: He stated that although economists, engineers, and the like are important, that MIT is primarily engaged in building excellence in its science department, not in the past and our reputation not withstanding, apparently. Dr. Stratton looks for another reversal of a past trend — the consolidation rather than the proliferation of programs within the student body. He hopes that MIT sees fewer departments in the future, with each department covering a broader field — life sciences, earth sciences, etc. Dr. Stratton looks forward, along with generations of freshmen and Sophomores yet unborn, to removing the deadline for the decision on one's professional course to the beginning of the fall term.

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More important was the recent reversal of a past trend — the consolidation rather than the proliferation of programs within the student body. He hopes that MIT sees fewer departments in the future, with each department covering a broader field — life sciences, earth sciences, etc. Dr. Stratton looks forward, along with generations of freshmen and Sophomores yet unborn, to removing the deadline for the decision on one's professional course to the beginning of the fall term.

The MIT Security Office has come to represent many things to many people. Everyone connected with the security function is thoroughly indoctrinated with the primary rule of the office, namely, to render service not only to members of the Institute community, but also to visitors to the MIT campus. The basic operation is crashed with the protection of both the classified work done at MIT and the general protection of the Institute. The ground rules for the former are established by the various agencies of the federal government for whom the work is being performed. In the second instance, the procedures and techniques are those used by most well organized police departments but with the modifications necessary for a successful on-campus operation. In spite of all that may be said or heard, neither the security violation in involving classified work have been the product of disloyalty, malice, or intentional wrong doing. They are the result of thoughtlessness, carelessness, and in some cases gross negligence. These problems are caused by members of the Institute community. The problems confronting us in the unclassified areas frequently are caused by a combination of circumstances, namely, the thoughtlessness of our own people coupled with the minimal internal controls which are more commonly related to MIT. This does not mean that we do not have some of the members of the Institute community, albeit very few, who unwittingly but occasionally place themselves into some sort of legal difficulty, criminal or civil.

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Humor, Passions Seen in Many Cases

Some cases are rather sad, some are in the interest of Judah, Arthur Joseph, who alias James James, following an intensive investigation by a member of the Uniformed Branch, was rather sad when one considers his young wife who is about to become a mother. The same can be said of the Cambridge youngsters, caught stealing a bicycle, coming from a broken home and residing with a rather disreputable parent who has no regard for the child's welfare. Other cases have a touch of humor. For example, there is the case of a youngster who was apprehended and found from a broken home and residing with a rather disreputable parent who has no regard for the child's welfare. Other cases have a touch of humor. For example, there is the case of a youngster who was apprehended and found from a broken home and residing with a rather disreputable parent who has no regard for the child's welfare.

Another case is of a descript girl with pavement-colored hair and a briefcase. The Club Queen is fiscored and the ace of trumps is led. The diamonds are now all winners and the contract is made.

Senator Frankhansens. Assistance in the advertising field is particularly needed.

The faculty forum

The author of today's article is Harvey Barstein, the MIT Security Officer. He is the President of the American Association for the Advancement of Science, and is also Chief of Investigations and Security for the U. S. Department of State. This position is three steps below the level of Assistant Secretary of State. Mr. Barstein graduated in law from Creighton University in Omaha, Nebraska, in 1948. He is a Vice President of Pi Lambda Phi National Fraternity, and is advisor to the MIT chapter.

The MIT Security Office has come to represent many things to many people. Everyone connected with the security function is thoroughly indoctrinated with the primary rule of the office, namely, to render service not only to members of the Institute community, but also to visitors to the MIT campus. The initial statement regarding our representing many things to many people should not be surprising when one considers the variety of duties performed and services rendered by the Security Office. Con- trary to what some may think, the security function is not confined to the handling of the Institute's parking prob- lems. This is but one phase of the responsibility and, by comparison, a relatively minor one.

We acknowledge that no organization is perfect, and no security or law enforcement activity can possibly discharge all of its many and varied responsibilities without occasionally conveying the impression that it is either arbitrary or callous. It also seems ironic that frequently the things which are done and appear to be the most arbitrary are those required in the best interests of a majority of the community. Be that as it may, the Security Office and its component parts are dedicated to the security of the community.

The basic operation is concerned with the protection of both the classified work done at MIT and the general protection of the Institute. The ground rules for the former are established by the various agencies of the federal govern- ment for whom the work is being performed. In the second instance, the procedures and techniques are those used by most well organized police departments but with the modifications necessary for a successful on-campus operation. In spite of all that may be said or heard, neither phase of the activity really is very glamorous, particularly to those directly involved. Both aspects, however, have one important thing in common — most of our problems are caused by individuals, just as most of them could be pre- vented by more thought on the part of the persons affected.

So far as we know, none of the security violations in involving classified work have been the product of disloyalty, malice, or intentional wrong doing. They are the result of thoughtlessness, carelessness, and in some cases gross negligence. These problems are caused by members of the Institute community. The problems confronting us in the unclassified areas frequently are caused by a combination of circumstances, namely, the thoughtlessness of our own people coupled with the minimal internal controls which are more commonly related to MIT. This does not mean that we do not have some of the members of the Institute community, albeit very few, who unwittingly but occasionally place themselves into some sort of legal difficulty, criminal or civil.

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There have been unpleasant experiences, including the apprehension of a "peeping tom" who certainly frightened some of our secretaries, and our involvement with various state and Canadian officials as a result of a suicide.

On several occasions members of the Security Force have helped prevent suicides in the Charles River, and the cruiser has been used an amazing number of times as an emergency ambulance.

Sometimes students come to the office seeking assistance because of their involvement in a quasi-criminal activity, and it is not uncommon for some students to view the Security Office as a kind of "legal aid bureau" when they are seeking advice and guidance on such matters as accidents, leases, and their involvement in various contractual matters.

While the frequently thoughtless acts of individuals create most of our work, the fact does remain that whatever measure of success has been achieved by the Security Force is due in large measure to the cooperation received not only from the administration, but also from the student body, the faculty and staff. Assuredly this cooperation not only is most welcome, but also it is most appreciated.

Continued from Page Two

This week's Techretary is Miss Norma Humphries who works in the Publications Office.

Norma is 22 and stands 5 feet 6 1/4 inches tall with blond hair and blue eyes. She lives at 123 Marlborough Street in Boston and told The Tech that her hobbies and interests include singing, travel, sailing, and summer sports. As usual, The Tech is still accepting applications for Techretary of the Week at its Walker Memorial Office.

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fine, medium, broad, student.
**Weisskopf Stresses Poor Student Faculty Relations, Parts of Courses**

Austrian-born, Victor F. Weisskopf received a Ph.D. from the University of Gottingen in 1931. After working in Copenhagen and Zurich, he came to the U. S. in 1937. He was at The U. of Rochester until 1940, when he was called to the Manhattan Project. Professor Weisskopf came to MIT in 1947. He is an authority on Quantum Mechanics, Electron Theory, and the Theory of Nuclear Phenomena. He was elected President of the American Physical Society last month.

by Allen Krieger

MIT's greatest disadvantage, said Professor Victor F. Weisskopf this week, is its size. Weisskopf, a leading member of the physics department and president of the American Physical Society, also stated, in an interview, that the institute does not leave its students any time to think.

Although, in general, he thinks that the undergraduate program here is very good, Weisskopf feels that many courses try to cover too much material. "A course," he states, "should not try to cover a field but to uncover it." Anyone who has ever had to take a lab and several quizzes in the same week will agree with Weisskopf that the size of the MIT work load leaves the student no time to contemplate the implications of his studies. This leads, Weisskopf believes, to a tendency to regard science as a collection of sterile facts rather than the "philosophy" that it is. This trend could be neutralized, he said, by a greater philosophical system. It is for this reason that he prefers the freedom, which one finds at a university, to search for truth to the restraints in- volved in improving weapons and in increasing corporate profits in industry or government, although salaries are higher there. When asked to name the most lucrative field in physics, he stated that such a question is irrelevant and undignified for the true scientist to contemplate.

"Weisskopf Stresses Poor Student Faculty Relations, Parts of Courses" (Continued on page 8)
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For information write: Placement Office, Western Electric Company, 195 Broadway, New York, N.Y. 10007. Western Electric also has representatives in all major cities of the U.S. and Canada. For more information on the positions available, write a Western Electric representative.

Scotch, Other Diluents Change Ice Properties

The fact that ice cubes stick together in ice water but not in Scotch whiskey and water hasn't greatly affected the popularity of either beverage. It is of analytical interest, however, to work in a new laboratory at the Massachusetts Institute of Technology. In that laboratory, mixture freezing points are being studied experimentally in the Ice Research Laboratory, where scientists are seeking to put to work the "most plentiful and so far the least useful" substances on earth - ice and snow.

Dr. W. David Kingery, head of the laboratory, said its studies represent a new field of research which he has named "applied glaciology." It is aimed toward developing practical methods for using ice and snow in inexpensive large-scale materials in Arctic regions.

Dr. Kingery, an associate professor of ceramics in the MIT Metallurgy Department, said the laboratory is already finding ways - including the addition of alcohol and other substances - to improve processing methods and to make stronger and more useful ice. (Alcohol aids in freezing by altering its grain size so that it fits together better.) He predicted that engineers would be building practical structures out of ice in two to three years as a result of advancing research in this field. Professor Kin- gery retired last week from a three-week trip to Point Barrow, Alaska, where he supervised a field program of the Arctic Institute of North America on the building of ice structures.

"The basis for this new study," he said, "is that too per cent of the earth's surface is covered by ice and snow. The covered areas and oceans are the two great terrestrial frontiers which have not been fully explored; in some minds they offer much more hope for exploitation than does outer space. But development of the earth's cold regions can only be achieved when the local environment, including ice and snow, is positively used rather than passively fought." The need for research lies in the fact that ice and snow as found in nature seldom have the properties required for modern construction, Professor Kingery said.

"Ice and snow have been used as construction materials by residents of cold climates for a long time," he said. "Applications have included snow houses, log building and ice sidewalks. In the Orient, the use of ice storage areas in logging operations is widespread. In all these, however, the requirements as to structural properties are not stringent and the applications have been limited to the use of natural, unprocessed ma- terials. Extensive progress has also been made in conservation of tunnels and rooms in glacier ice and snow, particularly by the U.S. Army Snow, Ice, and Permafrost Research Establishment. But the opportunity and usefulness for this kind of construction are obviously enormous." In general, he said, good use has been made of cold climates by the world's natural state. But he called it a "stone age" activity because no processing methods have been developed to point where wisely useful construction and fabrication techniques are available for on-thespot building.

Studies of ice "alluya," which now appear to be one of the most promising avenues of research, have been limited, according to Professor Kingery. The only serious consideration given the problem was the development of ice-sawdust mixtures during World War II in connection with British plans to build a 2-million-ton aircraft carrier out of ice. The addition of about 15 per cent sawdust, it was found, more than tripled the tensile strength of the ice. Other and im portant alloys developed by Professor Kingery are ice-Fiberglas mixtures, ice which contains as little as four volume per cent Fiberglas (10 times stronger than pure ice). Natural ice has a tensile strength of 200 pounds per square inch, whereas one Fiberglas-ice alloy has a tensile strength of 2,000 pounds per square inch.

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Sports Publicity
Director Named

George D. Wood Jr. has been named the Harris ((_removed for redaction by the reviewer)_ Director of Sports Publicity by Richard Bach, Director of Athletics. Wood replaced Robert(_removed for redaction by the reviewer), who has assumed the position of sports publicity director at Dartmouth College.

Mr. Wood, a member of the Office of Public Relations, where he is assistant director, will be engaged part-time in handling news of both intercollegiate and intramural sports activities.

The new appointee was a four sport letter-winner in high school and a triple letter-winner at American International College in Springfield, Mass. He was a member of the football, lacrosse and basketball teams at AIC.

Wood served as football line coach at AIC for one year before he was named head grid mentor at the school. His 1947 varsity football team was one of the New England small school powers. He also coached basketball, lacrosse and baseball teams at AIC.

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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 PAWA 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, specifically 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 PAWA investigate metallic 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.

The field has never been broader

The challenge has never been greater

with the development of all forms of flight propulsion systems that have development potential.

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LACROSSE TEAM TOPS UNION 6-2

By JAY SALMON

Catching fire for three goals in the fourth period, the Tech lacrosse team dropped Union 6-2 Saturday at Briggs Field. The Engineers were held throughout the game by Union's tough defense which kept them from getting many good scoring opportunities as they tallied only 6 times in 17.

Thomas Conn, '60 scooped the score 1-1 in the second period and half time found the score still deadlock.

The second half opened with another Conn goal but Union retaliated quickly on a steal which caught no Techman even near their goal and knotted the game again at 2-2. In the final minute of the third quarter Joe Stalnaker, '61, put the Engineers ahead to stay with an unassisted goal.

In the fourth period Conn, Stalnaker, and John Castle, '61, scored through goals to ice the 6-2 win.

Wednesday the Engineers take on Harvard at Harvard then play two more away games before returning to Briggs Field April 27, against UMass.
**Swimming, Diving**

Here is a swimming and diving show to raise money for the Olympic Games. A water ballet by the Swim Club, singing by MIT's Sigma Alpha Epsilon and Alpha Tau Omega, and Coast Guard Academy team. Tickets, priced at $1.50 per person, are on sale. A talent show is also planned.

**Sailors Win 2 Regattas Over Weekend**

The varsity sailing team scored a four successful weekend, winning both of the meets they sailed. Saturday was won by MIT followed by Providence College, William and Mary, and Holy Cross. MIT won the MIT "A" division skipper Peter Gray, '61, got three boats ahead of Cook and himself to tie the score.

- In "B" division there was a close contest between MIT's Don Nelsen, '63, and BU's John Burking. The deciding race was the fifth, in which Nelsen took 2nd and Buckingham 3rd. This gave MIT a four point lead which they maintained. New England catamarans versus New England championships. A water ballet by the Swim Club; singing by MIT's Sigma Alpha Epsilon and Alpha Tau Omega; and Coast Guard Academy team. Tickets, priced at $1.50 per person, are on sale. A talent show is also planned.

**Tribal Development in Central Africa, Politico-Religio-Economico Aspects of Ethnogenesis**

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**The Tech**

**This was the scene of a bill in the regatta.**

**Swimming, Diving**

Show Is Planned To Aid Olympics

A swimming and diving show is to raise funds for the Olympic Games will be presented jointly by the MIT Swim Pab and T-Ch club at Alumni Fund Night event, April 22.

**Fresh 3rd At Medford**

The freshman sailing team placed third out of seven in their meet on Saturday at Medford. The rankings were MIT 100, BU 94, Yale 85, BC 73, Rowdients 66, Brown 47, and Holy Cross 3.

**Collegie Students Smoke More Luckies Than Any Other Regular!**

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Machine or Hand Washable
The tailored look and comfort of a topcoat have been combined with a 100 per cent waterproof construction to bring you the highest standard of rain protection ever found in fabric coats. Finest tailoring details, Bal-raglan style, fly front, slash pockets. Fine cotton poplin in the popular oyster shade, fully lined with handsome plaid cotton. English edge stitched seams. Coat is drip-dry...washable by machine or hand. Permanently waterproofed if simple instructions for care have been followed.

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