



To Guests at the M.I.T. Commencement of 1952:

I am pleased to welcome to the Institute the families and friends of the young men and women who are receiving degrees at our commencement ceremonies today.

You will join me, I am sure, in wishing these new graduates of M.I.T. best wishes and much success in the times ahead when they will be called upon to make the most effective use of the rigorous and exacting educational training which they have received here at the Institute.

J. R. Killian, Jr.,
President

Institute Comm. Offers Varied Gov't Training

by ROBERT M. BRIBER
President of the Class of 1952

Student government is in an unusual and often misunderstood position. There is not student government in the country that is a sovereign government; rather, power is always delegated to it by the faculty or administration of the college. In some of its duties the student government must function as if it were sovereign, for it is a government and it does have responsibility, but at the same time it must remember that it has only a limited sovereignty, that it must continue to make intelligent decisions if it is to retain what power it does have. Furthermore, in those areas in which the student government is not sovereign, but which are of interest to the students, the duty of student government is to give responsible and intelligent advice to those who do make the decisions.

This can lead to embarrassment and misunderstanding, particularly if the areas of its responsibility are not clearly defined, but it is training for life and citizenship. Our society is a remarkably complex one, and each member always has a somewhat confused position for he has a different function and responsibility in different aspects of his job, in his home and at his club, almost anywhere he goes. In effect, then, the student government is not only a government for students, but it is also an organization through which students can learn to govern and be governed.

However, this is not the only desirable attribute to a student government. Far from it! A second aspect, and one that is occasionally over-

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Douglas And Wyzanski Address '4600 Grads

More than 4,000 relatives and friends of the class of 1952 attended the Institute's 86th graduation exercises in Rockwell Cage this morning.

The principal address was delivered by Lewis W. Douglas, former U. S. Ambassador to Great Britain. Mr. Douglas, a graduate of Amherst and a member of the class of 1917 at the Institute, is a former vice-president and member of the Board of the American Cyanamid Company and past-president of the Mutual Life Insurance Company of New York where he has been Chairman of the Board since 1947.

Dr. James R. Killian, Jr., President of the Institute, gave the

traditional address of Godspeed to the graduating class and personally awarded the degrees. Dr. Killian was assisted by Mr. Robert E. Hewes, and Mr. Joseph C. MacKinnon; Dr. Julius A. Stratton and Dr. Harold L. Hazen were the investors.

Marching at the head of the class of 1952 was Robert M. Briber, its President, of Denver, Colorado; with the Secretary of the class, Stanley I. Buchin of Englewood, New Jersey. The First Marshal of the graduating class was Robert M. Oliver of Ensenada, Puerto Rico. Robert R. Schwannhauser of South Orange, New Jersey, was Second Marshal. The third Marshal was William J. Nicholson, Jr., of Kirkland, Washington.

Colonel David D. Terry, Jr., administered the oath of office to the Officers Reserve Corps and the Air Force Reserve and Major General Charles G. Helmick, Commanding General, New England Sub-Area, U. S. Army, awarded commissions.

Commencement exercises were followed by a luncheon in the Great Court of the Institute, where nearly 2,000 of the graduates and their friends and families gathered.

Yesterday, the Baccalaureate service was conducted by E. Francis Bowditch, Dean of Students, and was addressed by Judge Charles Edward

(Continued on Page 2 Column 1)

Applications Climb; Rise Checks Slump

Applications for admissions to the Institute, which have been declining steadily since 1946, have shown a 30% increase this year, according to B. Alden Thresher, Director of Admissions, and a freshman class of about 800 is expected in the fall. Since the size of the age group is not increasing, it may be assumed that this growth in interest is due largely to a greater awareness of the very acute shortage in manpower in the fields of science and engineering. Some of the increase may also be attributed to intensified activity on the part of Institute alumni and the Public Relations Committee.

Indications are that veterans will form about 1% of the entering class; consequently the average age will be very close to what it was before World War II, that is about 18 years plus three or four months at time of Registration Day.

About 1200 Admitted

While only 800 freshmen are expected to come to the Institute in the fall, more than 1200 were actually admitted. For one reason or another many of these will not come here. Among the causes is, first, the fact that some of those who were admitted depended on scholarship aid to be able to study here and did not receive it; and, second, many applicants had simultaneously applied to other colleges, and elected to go to one of those rather than to MIT after being told that they had been admitted to the Institute.

Criteria of Admissions

Need of financial aid is no criterion for acceptance by the Office of Admissions, who, said Thresher, "takes into account intellectual and academic

(Continued on Page 5 Column 2)

Educational Council Attracts Freshmen

Attracting future talent to the Institute is the object of the new Educational Council. This still infant organization aims to widen Tech's reputation not only through educational activities, but through the qualities Tech men themselves display as well. In line with this objective, the Educational Council cooperates with hundreds of M.I.T. graduates in attracting the best possible type of student to Cambridge.

Organized in the fall of 1951, the Educational Council has three major functions; public relations, secondary

(Continued on Page 2 Column 4)

Technology Press Now 20 Years Old; Widens Operation

With four titles in the process of manufacture and two others in the middle stages of editorial preparation, The Technology Press this month is busily approaching the twentieth anniversary of its existence in its present form. The imprint, "The Technology Press, Massachusetts Institute of Technology," was registered as a trademark in 1933; publishing books under the auspices of the Institute had begun some years before that time.

At present under way for publication in the next few months is "Fatigue and Fracture of Metals—A Symposium," which will be issued under the joint imprint of The Technology Press and John Wiley & Sons, Inc., of New York, with which firm the Press has enjoyed over fifteen years of satisfying collaboration. The volume contains the papers presented at the Institute in June 1950, treating of a wide range of aspects of fatigue failure in metals, with authors drawn from industrial, governmental, research, and educational organizations.

The varied and powerful applications of the metadyne are discussed in "Metadyne Statics," by Joseph M. Pestarini, Lecturer at the Institute,

(Continued on Page 3 Column 1)

Expanding Alumni Clubs Help Bigger Grad. Ranks

An alumni association such as ours can be considered successful only if it fulfills its obligations of furthering the interests of both the Institute and the Alumni. Possibly the best measure of its success insofar as the Alumni are concerned is the constantly increasing activities of the eighty-eight M.I.T. Clubs, twenty of which are outside the continental United States. As Alumni move into an M.I.T. Club area the club secretary is advised of their addresses and the Alumni are notified of the availability of the local club—which may have been established as early as 1887 (Chicago) or as recently as last April 21st (Scranton, Pa.). Attendance at club functions is constantly on the increase and visits to them by speakers from the Institute have not only increased, but will have practically doubled this year.

Correspondingly the best evidence of the value of the Association's work in behalf of the Institute is shown in the recent activities of the committee for financing development where thousands of Alumni contributed toward

the \$25,000,000 received, and three or four thousand Alumni contributed unselfishly of their time and energy in making the necessary solicitations. Annually the Alumni Association conducts its Alumni Fund solicitation, seeking many modest-gifts-from-many rather than concentrating on larger gifts-from-a-few. Since its inception in 1940 alumni have contributed more than \$1,500,000 to the Fund, of which

(Continued on Page 2 Column 1)

S.I.M. Open House

E. P. Brooks, Dean of the School of Industrial Management announced that the school will hold Open House during Commencement Day and Alumni Day for members of the graduating class, parents, and alumni who are interested in the new school so that they may inspect the new building and discuss future plans of the School with the Faculty.

TLF Loans, Scholarships, Work Ease Student Financial Burdens

Although the Institute may be considered one of the younger institutions of the New England area, it has markedly increased its facilities and resources over the years. Throughout the years a steady stream of men have continually come to the Institute seeking a fulfillment of their educational goals; simultaneously, there has been a certain fraction each year requesting some financial help.

Numerous benefactors have provided endowment funds for scholarships to help promising young men, but unfortunately the growth of these funds has not kept pace with other facilities of the Institute, particularly in the present inflationary period. Presently, however, approximately twenty per cent of the undergraduate body does receive help from the Institute.

There are many indications that industrial organizations are taking an increasing interest in providing scholarship funds to help needy students. Grants-in-aid from these sources continue to supplement funds materially, and thus offset the slower growth of scholarship endowment.

In an article entitled "TLF" Survey in the February issue of the Technology Review H. E. Lobdell, Executive Vice-President of the Alumni Association and Chairman of the Technology Loan Fund Board, sketched the origin of this fund brought about

by the efforts of Gerard Swope, '95; included were summaries of comparative data, along with data on the achievements of many alumni who were aided through this medium.

The Technology loan fund stands a unique and startling achievement in helping to finance their college careers, both graduates and undergraduates. The timely birth of this fund during the prolonged recession of the thirties proved a boon to many needy students and helped to provide engineering and scientific personnel to meet the emergencies of World War II. After the cessation of hostilities the Loan Fund was a bulwark in assisting many veterans who found themselves in need of funds on expiration of their government benefits. The Loan Fund was operated most generally to help cushion the increasing costs, particularly when increases in tuition from \$600 to \$800 had been made to meet the rising costs of the Institute's operations.

Since the close of World War II, one notable change in the Institute has been its increase in dormitory accommodations which actually has made M.I.T. a more residential college within the metropolitan area. Among the numerous advantages that these new conditions bring is the opportunity for student employment on campus. Since the time requirements of a professional education are considerably more than the usual Course in

the average liberal arts program and the number of free hours with different programs varies, and it is only the exception that a student has sufficient time or energy to be completely self supporting and still carry on a full time schedule.

During this past year some 765 students have found time to help themselves in part-time jobs of varying capacities such as work in the several dining services, assisting in the various services in the dormitories, switchboard duty, and the guide service. In many cases students have earned sufficient amounts to meet the cost of their dormitory rent, while others have earned a considerable portion of their board bill. The amount the students have earned has of course varied with the type of job and to a certain extent individual skill; however, it is fair to generalize that the over-all average is close to three hundred dollars per college year per student.

It may be pointed out that summer employment offers another avenue by which a man of limited financial resources may supplement his purse in anticipation of the next college year. It is fair to estimate that through the use of scholarship and loans, part-time employment on the campus, and a normal, remunerative summer he can meet as much as three quarters of total annual expense.

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The Tech



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GRADUATION

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Wyzanski, a magna cum laude graduate from Harvard Law School in 1930. Judge Wyzanski, who has had a legal career particularly rich in government service, is Judge of the United States District Court in Boston.

The Alumni Day program will be held next Monday with more than 1,000 alumni and their guests expected to attend. Highlights of the day will be the annual luncheon in the Institute's Great Court, at 12:30, at which President Killian will speak, and the Alumni Banquet at 7:00 p.m. in the Hotel Statler. The Honorable Robert H. Winters, '33, Minister of Resources and Development, Canada, will be banquet speaker.

Other highlights of the Alumni Day program will include departmental reunions in the morning, inspection of new Institute facilities in the afternoon, and an open house at President Killian's home at 4:00 p.m.

ALUMNI CLUBS

(Continued from Page 1, Col. 1)

\$750,000 was used with other money for building the Everett Moore Baker House and the Charles Hayden Memorial Library, respectively.

Most important of all for the Institute, is the constant flow of well-qualified applicants for admission which are screened by the alumni. For 21 years Alumni, now numbering two hundred and sixty, have served as honorary secretaries, interviewing for the Admissions Office those too distant for a personal interview with the Admissions Office at M.I.T. As mentioned in another article, hundreds of Alumni are now being called upon to participate in a nationwide organization, the M.I.T. Educational Council, which will see that more and more secondary school students are presented the up-to-date picture of M.I.T. and all it offers.

The Alumni magazine, The Technology Review, is outstanding in its field. Not only does it include news of fellow classmates and the activities of local clubs, but it is also a semi-official magazine of the Institute itself, presenting a complete picture of all the newest developments at the Institute. The Review, published nine times a year, is sent to all subscribers to the Alumni Fund. Toward the aim of maintaining a well informed Alumni body, the Association also sent this past year to all Alumni two newsletters, a progress report from the President of the Alumni Association, President Killian's annual report, and letters to several classes from their class presidents. On January 31st, during our recess between terms, the Association held its annual midwinter dinner meeting at Walker Memorial with an attendance of 950. The program included talks by Dr. Compton, Dean Harrison, and Professors James

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looked, is that the participant can have fun and make many friends, both student and faculty. In addition, moreover, there are many skills that he can learn. He can learn to meet and to get along with people, to speak effectively, and to write. All of these can come to the fellow who wants to try for them.

The Institute Committee and the activities here at Tech offer these advantages many times over. We have activities and organizations that offer almost all the relaxation, recreation, and responsibility that a Techman could want. Let's look at the past year in the Institute Committee to see what a fellow could get out of it:

Last year, the Institute Committee held its first annual Leadership Conference. Here the member had a chance to spend a weekend discussing many phases of leadership, citizenship, and student government. The President of the Institute, a former Vice-President of Sears-Roebuck Company, and seven or eight other important M.I.T. people were there to talk about the same problems and to speak from experience. The weekend was spent at the beautiful New Ocean House in Swampscott, Massachusetts, and the opportunities for constructive bull sessions and relaxation were maximized.

During the past year two particularly interest topics came up before the Institute Committee. In both of these cases, Students for Struik and fraternity discrimination, every member of the group recognized that he was in the spotlight of student and faculty attention. He seemed determined to make the best decision, and most of us feel that he did, in both cases.

Not all the work of the Institute Committee was Leadership Conferences and debatable issues, however. During the past year the Committee met every other Wednesday afternoon and discussed many things. It was responsible, through the student Finance Committee, for over \$51,000; through the student Judicial Committee, for student disciplinary cases; through the Walker Memorial Committee, for scheduling social events at Tech. With such a myriad of duties, each member had a chance to learn and to talk of many things.

Then, to end the year, our Institute Committee had its own party at one of the fraternity houses. This gave everyone a chance to relax and to look back on a year of achievement.

To close an article on the student government and activities with just a description of the Institute Committee would be to commit a sin of omission. The opportunities for almost any conceivable form of relaxation are presented to each and every Techman who shows an interest. There are over 100 student activities, running from many forms of athletics to

ED COUNCIL

(Continued from Page 1, Col. 4)

school contacts, and student appraisal. The nucleus of the Council is composed of Tech's nation-wide body of Honorary Secretaries, who are appointed by the President. Since the early 1930's, these men have been serving as "Ambassadors of M.I.T." in their own communities, and they have worked to promote the Institute's status in the public eye. One of their most important duties has been the interviewing of Admissions applicants who live too far away to visit the Institute; here, their reports on applicants have figured prominently in students' admissions records.

The majority of Educational Council members will be drawn from the more recent graduating classes who assume their share in Council work through their loyalty to the Institute and their interest in its future. These Counselors, who are also appointed by the President, make it their job to talk to prospective M.I.T. students, advising them and seeing that every possible encouragement and source of information is offered to them. They help to develop friendly, long-range relations with secondary schools and other youth groups as an integral part of the public relations program. They also provide valuable contacts with rural areas which the Institute may tend to miss. Reaching students from large urban areas has seldom proved difficult for M.I.T., but there have been capable candidates who have never made contact with Tech because no effective means was available to reach them. The Counselors will be briefed in problems of this sort by the Honorary Secretaries and trained by them to meet the problems first hand.

Within the Alumni Clubs, the Presidents and Secretaries who are automatically members of the Council during their terms of office provide the assistance Honorary Secretaries require in the organizing of local Council units. In areas where the Alumni Clubs exist, the Educational Council Steering Committees are organizationally tied to the Clubs. The interchange between these groups consequently tends to further their cooperative work and preserve that "bit of Tech" wherever Graduates may be located.

Council men are indeed "Tacking Tech" even after they leave the Institute for business and industry; they find many public misconceptions about Technology abounding. There are still some people who insist, for

musical and dramatic clubs, from religious organizations to service groups, from the debating society to hobby clubs, in short, to almost anything the Techman wants to do.

Regardless of the reason the undergraduate goes into any activity, whether it's for relaxation, prestige, job application data, he can't avoid learning and improving. Training and experience in many fields are an indispensable, and unavoidable, part of the fun.

Soil Laboratory Technique Turns Mud Into Roads

Dr. T. William Lambe, Director of the Soil Stabilization Laboratory, in announcing speakers for a three-day conference on soil stabilization to be held here from June 18 to June 20, stressed the increasing demand for construction of airports, dams, roads and buildings and the need for a better understanding of the nature of soils.

"Recent developments in our rapidly expanding civilization," said Professor Lambe, program chairman for the conference, "indicate we must build now on sites which in the past have been avoided because of inferior soil conditions. For this reason, improving the properties of natural soils to meet modern requirements is one of the truly great fields now developing. To help the soil engineer meet this challenge speakers of international reputation in the field will discuss the theory, advantages, limitations and cost of a wide variety of methods of soil stabilization at the M.I.T. conference."

The conference will consist of six sessions occupying the morning and afternoon of each of the three days. Each day's program will be developed around a general theme. These themes are "Methods of Stabilization," "Mechanical Stabilization and the Processing of Stabilized Soils," and "Applications of Soil Stabilization."

example, that Tech is a place for "men to work, not for boys to play." They're sure that sports and other recreations have just passed us by, and there is no time here for student activity. A few more sophisticated critics argue that the Institute is primarily a graduate school where the curriculum doesn't take humanities and non-technical fields into account. And finally, many would-be applicants are convinced that our admissions standards are so high that we end up educating only geniuses. News and factual information to the contrary, our Council men find that very often only personal contact with an M.I.T. man himself will correct these old and labored objections.

Consequently, Council members meet informally or officially with secondary school representatives, guidance groups such as those set up by the Kiwanis Clubs and the Engineer's Council for Professional Development, and community groups in an effort to serve not only the Institute but the public at large. Their efforts have already produced requests for more work along these lines. These men also provide the Institute with valuable reports on the quality of schools as well as applicants, and their contacts often give them a great deal of

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PRESS
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whose development of metadyne possibilities has been internationally recognized. Dr. Pestarini's treatise is also a joint publication of the Press and John Wiley & Sons, Inc. The manuscript was the subject of lengthy and painstaking editorial preparation in the Department of Electrical Engineering at the Institute, and has had the constant oversight of Dr. Pestarini.

Recalling the dramatic days of the Radar School which the Institute conducted during the second World War, "Principles of Radar," an outgrowth of the text material prepared for the Institute, is soon to appear in a third and thoroughly revised edition prepared by Professor J. Francis Reintjes and former Professor Godfrey T. Coate of the Department of Electrical Engineering. This volume will appear as a joint publication of the Press and the McGraw-Hill Book Co.

Independently, the Press is bringing out "Currents, Fields, and Particles," a new textbook in physics by Professor Francis Bitter of the Department of Physics. The volume will bring into form material which Professor Bitter has developed in working out new approaches to the problems involved in teaching physics.

Meantime, the "blacklist" of the Press continues to justify the judgment of Boards of Publication in the past, as well as of the first adventurers into book publishing at the Institute. Titles which were selected for issue nearly twenty years ago continue in active demand. Among these is "Waterway Engineering," which was translated from the German and issued in 1936 by The Technology Press under the guidance of President James R. Killian, '26, then Editor of the "Technology Review."

M.I.T. Athletic Prospects Labeled Bright In Spite Of This Year's Poor Showing

The competitive records of the Institute teams are slightly below average this year. This will not prove to be startling news to the average Tech man in that many students are prone to regard our wins with passive interest and joke about our losses. The truth of the matter is that over the past three years our over-all percentage in the win column in all sports fell just slightly less than five hundred. This year the over-all average will hit close to four hundred per cent.

The primary reason for this slight decline in competitive records this year is undoubtedly due to the general collegiate waiver of the freshman rule. Because of a draft scare among college administrators a year ago, various athletic conferences voted to offer colleges the option of using freshmen on varsity teams. Many of our competitors utilized this waiver to enable them to field better teams so that objectives in prestige and gate receipts could be realized. We did not choose to use freshmen on varsity teams for certain physical, emotional, and aca-

demie reasons; consequently our teams were a shade weaker against slightly stronger than average competitors.

Future Bright

For this very reason our teams should enjoy considerably more success for the next two or three years. The basic reasoning behind this being that in colleges where freshmen participated with the varsity they failed to support strictly freshman teams. Therefore, only a few freshman athletes with experience will move up to the varsity squads next year in these colleges. Natural mortality factors may rob them to the extent that they will have relatively fewer capable juniors and seniors on their sports squads two and three years hence. This lack of experienced juniors and seniors can prove to be a serious handicap to sports squads. Colleges which supported freshman teams this year should be correspondingly stronger against their normal competition during this period.

Participation figures at the Institute, that is the number of men participating in intercollegiate and intramural sports, are slightly higher for 1951-52 than for 1950-51. The rise came principally in intramural sports because of the addition of bowling and table tennis to the intramural program. There were also increases in the number of teams in the previously existing intramural sports however.

Approximately 900 different men participated in the intercollegiate program and an additional 1000 different men in the intramural program only. Approximately one-half of the intercollegiate athletes (450) also participated in intramurals which is over and above the 1000 figure. Consequently, by including general recreational participation figures in final computation it is apparent that more than 60 per cent of the students at the Institute engaged in some form of athletic or recreational activity on a regular basis during the year.

Facilities Limited

The varsity and freshman intercollegiate programs have reached a saturation point temporarily. From academic and financial standpoints we are competing on this level with other colleges nearly as much as we can afford. In other words, it is not deemed advisable to intensify our efforts along this line at the present time.

There are indications, however, that we should expand the junior varsity intercollegiate and the intramural programs. Students have exhibited increased interest in these phases of participation. Figures show that with the addition of adequate and proper facilities another 10-15 per cent of the student body would participate. At the present time some varsity sports squads must be cut because of lack of sufficient practice space thus eliminating the possibilities

of junior varsity teams in some sports. On the intramural level both outdoor and indoor facilities are sorely needed. Many intramural squads are permitted playing time only on vastly inadequate outdoor facilities and inferior indoor facilities. Many teams would like much more time for informal practice games and practice sessions with other intramural teams. This is not possible at present because all available areas are taken up when students have the opportunity to use them.

New Facilities Developing

Although much progress has been made in the provision of playing fields, cage, tennis courts, etc. over the past five years, not all M. I. T. men that wish to participate may do so. Commuters, young staff members, and faculty members have been discouraged in their attempts to participate. They repeatedly find that all fields, courts, etc. are in use when they have time to use them.

The administration is cognizant of these athletic and recreational needs and have attempted and will continue to attempt to develop these facilities as rapidly as possible. If present plans and objectives can be realized, the Institute will have, in the not too distant future, one of the better athletic and recreational units (from a participation standpoint) in the country.

COMMENCEMENT AND ALUMNI DAY PROGRAM

May 30-June 9, 1952

PROGRAM

- Friday, May 30—9:00 p.m. Annual Senior Ball, Sheraton Plaza, Boston
- Saturday, May 31—8:30 p.m. Senior Cruise to Nantasket
- Sunday, June 1—1:00 p.m. Mixed Outing, Crane's Beach, Ipswich
- Monday, June 2—8:30 p.m. Class Party, Walker Memorial
- Tuesday, June 3—6:30 p.m. Senior Stag Banquet, Rockwell Cage
- Thursday, June 5—2:15 p.m. Senior Class Picture, Building 10 (In case of rain, Walker Gymnasium)
- Thursday, June 5—3:00 p.m. Baccalaureate Service, Walker Memorial

ALUMNI CLASS REUNIONS

- CLASS OF 1892—Saturday, June 7—Luncheon to be held near Boston.
- CLASS OF 1897—Monday, June 9, 12:30 p.m.—Luncheon in the Great Court on Alumni Day.
Tuesday, June 10, 1:00 p.m.—Luncheon, Algonquin Club, Boston.
- CLASS OF 1900—Tuesday, Wednesday, Thursday, June 10-12—The Pines, Cotuit, Mass.
- CLASS OF 1902—Friday, Saturday, Sunday, June 6-8—Coonamessett Ranch Inn, North Falmouth, Mass.
- CLASS OF 1907—Friday, Saturday, Sunday, June 20-22—Oyster Harbors Club, Osterville, Mass.
- CLASS OF 1912—Friday, Saturday, Sunday, June 6-8—Snow Inn, Harwichport, Mass.
- CLASS OF 1916—Friday, Saturday, Sunday, June 6-8—Coonamessett Ranch Inn, North Falmouth, Mass.
- CLASS OF 1917—Friday, Saturday, Sunday, June 6-8—Wentworth By The Sea, Portsmouth, N. H.
- CLASS OF 1921—Monday, June 9—Class Get-Together in afternoon at Hotel Statler on Alumni Day.
- CLASS OF 1922—Friday, Saturday, Sunday, June 6-8—Sheldon House, Pine Orchard, Conn.
- CLASS OF 1923—Monday, June 9—Class Get-Together at 5:00 p.m. at Hotel Statler on Alumni Day.
- CLASS OF 1925—Monday, June 9—Class Get-Together at 4:00 p.m. at Hotel Statler on Alumni Day.
- CLASS OF 1927—Friday, Saturday, Sunday, June 6-8—Oyster Harbors Club, Osterville, Mass.
- CLASS OF 1932—Friday, Saturday, Sunday, June 6-8—Curtis Hotel, Lenox, Mass.
- CLASS OF 1937—Friday, Saturday, Sunday, June 6-8—Weekapaug Inn, Weekapaug, R. I.
- CLASS OF 1942—Friday, Saturday, June 7-8—Hotel Griswold, New London, Conn.
- CLASS OF 1947—Friday, Saturday, Sunday, June 6-8—Cliff Hotel, Scituate, Mass.

COMMENCEMENT

- Friday, June 6
- Corporation Breakfast, 100 Memorial Drive, 8:00 a.m.
- Opening in Cambridge Armory, 10:00 a.m.
- Graduation Exercises, Rockwell Cage, 10:30 a.m.
- Commencement Luncheon, Great Court, for seniors and their guests. \$2.00 per person, including tax, 1:00 p.m.
- President's Reception to seniors and guests, Walker Memorial. Dancing. 3:30 p.m.
- Sunday, June 8
- Meeting and Dinner for Honorary Secretaries, Club Officers, and Educational Council, M.I.T. Faculty Club, 50 Memorial Drive, Cambridge, 4:30 p.m.

ALUMNI DAY

- Sunday, June 9
- Departmental Reunions—10:30 a.m.
 - I Civil Engineering
 - II Mechanical Engineering
 - VI Electrical Engineering
 - VII Biology
 - VIII Physics
 - XI Sanitary Engineering
 - XIV Economics and Social Science.
 - XV Business and Engineering Administration
 - XVI Aeronautical Engineering
 - XX Food Technology
- Luncheon, Great Court, 12:30 p.m.
- Inspection of Buildings, 3:30 p.m.
- Open House at President's Home, 4:00 p.m.
- Alumni Banquet, Hotel Statler, Boston, 7:00 p.m.

New Industrial Management Research Made Possible By Alfred P. Sloan Jr.

A broad program of research on the complex problems of modern industry will be undertaken at the new School of Industrial Management at the Institute this fall. This school, established by the gift of six million dollars by Alfred P. Sloan, will be devoted entirely to research and exploration in the broad fields of industrial management and will focus attention on the need for advancing the frontiers of knowledge in the sphere of modern business.

The school of industrial management was established one year ago by a grant of \$5,250,000 from Alfred P. Sloan Foundation, Inc. Its original concept, as outlined by Alfred P. Sloan Jr., '95, was to correlate the complex problems of management in modern technical industry with science, engineering, and research to prepare young men to meet the exacting demands of industrial management." In April of this year the

Foundation announced another grant of \$1,000,000 for "exploration in the broad fields of industrial management." This gift represents the largest amount ever made available in this area solely for research.

The announcement of these gifts, the founding of a fifth School at the Institute, and the appointment of E. P. Brooks, former Vice-President and member of the board of Sears, Roebuck Company; as Dean of the School and the purchase and reversion of the Alfred P. Sloan Building, formerly the headquarters of Lever Brothers, has resulted in a considerable amount of interest on the part of undergraduates, graduates, and friends of the Institute. The first year of the School's existence has been a period of careful thought, deliberation, and planning. Next year will see the beginnings of the first tangible results of Technology's augmented program in industrial management. The move to

new headquarters perhaps representing the start of the transition from the planning stage to the action stage. This transition is planned to be a never ending process; more rapid at the first but continually flexible, so that the program of study in industrial management will be as dynamic as the industrial society for which it is designed to serve.

The latest grant from the Sloan Foundation brings Sloan's gifts to the Institute over the past thirty years to a total of more than \$8,300,000, and includes grants for development of an aeronautical engineering laboratory, creation of the Alfred E. Sloan Fellowship program in business and engineering administration, and the foundation of a professorship which bears his name. In 1946 Mr. Sloan made a grant of \$225,000 toward construction of the Institute's Gas Turbine Laboratory and enlargement of the Sloan Automotive and Aircraft Engine Laboratory, to which he had already given more than \$100,000. Further evidence of Mr. Sloan's broad interest in all phases of industry came in 1949 when he gave still another gift of \$1,000,000 for the construction of a metals-processing laboratory.

A gift of \$5,250,000 was made by the Sloan Foundation in December, 1950, to establish the new School of Industrial Management and to purchase the former Lever Brothers Company in Cambridge to house it.

Development Program Sparks Tech's Growth

In the lifetime of the majority of the current Technology students, the Institute has grown physically, socially, and intellectually; in short, it has come of age in the last twenty years. The additions to the physical plant, both in quality and variety, provide ample evidence of the far-reaching objectives of the administrations of Presidents Compton and Killian to make the Institute "the greatest technical institution in the world."

Statistics tell only a small part of the whole story, but comparative information on a few aspects will give some measure of the changes that have taken place in twenty years. For example, the Institute now operates in 3,500,000 square feet of space. This represents an increase of 177 per cent. Of greater significance, the growth in Living and Recreational Space has been 268 per cent, while the Academic and Research Space has increased by 104 per cent. During this same period student enrollment has increased by 70 per cent, the total population by 115 per cent. Power consumption has increased by over 600 per cent, illustrating in a striking way the dependence of modern technical tools on electricity.

Swimming Pool Built in 1940
Technology's land holdings in Cambridge, now about 100 acres, have not changed materially. However, the entire development of West Campus, about 50 acres, has taken place in the last fifteen years. In this period the Institute tripled its dormitory capacity with the addition of the Graduate House in 1938; Baker House in 1949; Burton House in 1951. In 1945, to meet the postwar need for

married student housing, Westgate and Westgate West were built providing quarters for 270 families. The Rockwell Cage came in 1947, preceded a few years by Briggs Field House and the Track. Both the Field House and the Track were previously on East Campus on the site now occupied by the Swimming Pool, which was erected in 1940. Not of the least significance in the West Campus development are the playing fields which have transformed the whole area from bleak, dust ridden flat into a pleasant recreational area for campus residents.

As a matter of policy, West Campus will be preserved for the further development of housing, athletics and recreation. The next few months will see the start of construction of the auditorium and chapel behind Bexley Hall; later Westgate and Westgate West will be replaced by permanent apartments, probably multistory structures for better view and for better economy in land usage. This will leave land available for fraternity housing, additional tennis courts, a skating rink, and a gymnasium, to name a few of the high priority objectives to make campus living more attractive.

Temporary Buildings Replaced
Growth of academic space has been steady, with considerable acceleration during the war years. Much of the wartime construction was of necessity made up of temporary buildings. The latter will be replaced as soon as funds are available and when the transition can be made with the least disruption to operations now in the temporary buildings.

In the last twenty years, the fol-

(Continued on Page 5, Col. 3)

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T. L. F. LOANS

(Continued from Page 1, Col. 3)

The survey also disclosed that more than 98 per cent of all loans made since the establishment of the Technology Loan Fund in 1930 have been repaid and that less than one-half of one percent of all loans made have been "written off."

Through its own operations the fund, planned by Gerard Swope, '95, has increased its initial operating capital of about \$1,500,000 by more than 50 per cent. It has achieved such a favorable ratio of interest received to maturities in arrears that the collection of all interest above one per cent was recently waived.

Commenting editorially on the survey, the "Technology Review" concluded: "In an era in which fiscal philosophy is all too commonly characterized by the search for gifts, it comes as a refreshing stimulant to be reminded that there are still hardy souls with sufficient pride and independence to finance their own collegiate education."

Hey Seniors

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ADMISSIONS

(Continued from Page 1, Col. 4)

qualifications, as well as character and personality", adding that "evidences of character and good citizenship in secondary school are regarded as very important."

The engineering schools in the United States graduated 50,000 engineers in June 1950. This figure fell to about 35,000 in 1951, and will be in the vicinity of 25,000 this June. A further and progressive decrease is expected, and it is probable that in 1954 the number of graduating engineers will not be more than 15,000, against a demand of at least 30,000.

Deferments

As for the Selective Service law, it is at present likely that a great majority of freshmen will be deferred, either through signing up for the ROTC in the Army or the Air Force, or by passing the Selective Service test and keeping up a sufficiently high academic rating. Since the manpower situation is likely to become more acute in the next two years, it is not out of the question that present regulations may be changed by the Director of Selective Service or by the Congress.

Predicted Performance

The Admissions Office prepares a predicted rating for each freshman, composed of a number of factors in his previous school performance and entrance tests. This gives statistically the most probable academic level of performance. There are always many deviations from these predictions, and it is not easy to make a forecast of a very high degree of accuracy. Indications are, however, according to Admissions, that the entering class this fall will be of fully as good a quality as those that have preceded it in recent years.

DEVELOPMENT

(Continued from Page 4, Col. 5)

lowing major permanent academic facilities have been added: Rogers Building, the Sloan Automotive and Gas Turbine Laboratories, the Chemical Engineering Building 12, Hayden Library, and Building 24, in addition to the Metals Processing Laboratories, the Dorrance Laboratories and the Sloan Building, which are now being occupied. Two types of facilities provided at the Institute in the last fifteen years illustrate the demands of rapidly evolving science and technology. First, particle accelerators, such as the Van de Graaf Generator, the Cyclotron, the Synchrotron, the Trump development of the Van de Graaf Generator, and the 12 MEV Generator; second, the variety of wind tunnels, such as the Wright Brothers, the Supersonic, the Transonic, and the Shock Tube. Each of these is a piece of technical equipment, and yet most of them are large enough to require separate housing and accordingly fall in the building class.

Rong-Range Plans

Beyond the facilities mentioned above, the Institute has acquired off-campus properties devoted primarily to sponsored research which is related to the educational activities but in most instances is not directly concerned with the undergraduate program.

What of the future? The long-range development of the campus is under continuing study with the objective of bringing about an orderly arrangement of permanent facilities on the whole of the campus. Mindful of the need to provide adequate parking, the administration at the same time seeks to achieve more pleasant surroundings with more grassed areas, trees, and shrubbery.

Visiting Companies To Placement Office Increase Visits 25%

This year the Student Placement Bureau had an increase of about twenty-five per cent in the number of companies visiting it seeking engineering and scientific employees. Many companies had an impossible number of openings to fill considering available man-power. Others were looking for the right men for few openings. This indicates that many companies have greatly expanded their facilities with insufficient technical manpower to operate them due mainly to the defense effort. Others have held down expansion, accepting defense contracts only if they had facilities available to handle the work. Some have been forced into expansion because they were the only companies in their field who could handle certain types of defense contracts. Under these conditions any man available for placement has a number of openings to consider.

Shortage of Men

The Departmental Placement Advisers of the Institute have as their job the counselling of students to assist them in selecting the positions for which they are best suited. The Student Placement Bureau has had as one of its big problems, the uncovering of enough men for company representatives to interview. This has placed a considerably greater burden upon the Placement Bureau and the Institute generally this year; however, it is felt that it is part of the job of maintaining good industrial relations for M.I.T.

Many of the company representatives who have visited here this year have come to the Institute through good times and bad. Other companies have been represented here for the first time. By trying to give good service to all who come, the Placement Bureau hopes to increase the number of companies who will send representatives to M.I.T. year in and year out.

ED. COUNCIL

(Continued from Page 2, Col. 5)

personal satisfaction. Many of them remember the hurdles and questions they encountered as former applicants to Tech.

The Council has meanwhile furnished its members with ammunition to do the job. The beginning of the year saw the initial publication of The Bulletin, a monthly newsletter to keep the men up-to-date on Institute events and brief them on counseling developments. While a Handbook of policy and procedure is planned for publication next fall, representatives from the Institute frequently make trips to local Council and Alumni groups to brief them and discuss opportunities for Tech get-togethers. The Admissions Office, of course, works hand-in-hand with the Council here and throughout the country.

A fundamental objective of the Educational Council is to translate their experiences and knowledge into meaningful terms for others, the fun as well as the serious side of Tech life. Toward this goal, personal contacts are employed effectively, just as the informal talks between students and teachers here often produce the best kinds of understandings. By reaching the high school student personally, the Educational Council hopes to maintain the quality of performance and personality that M.I.T. has developed in the past.

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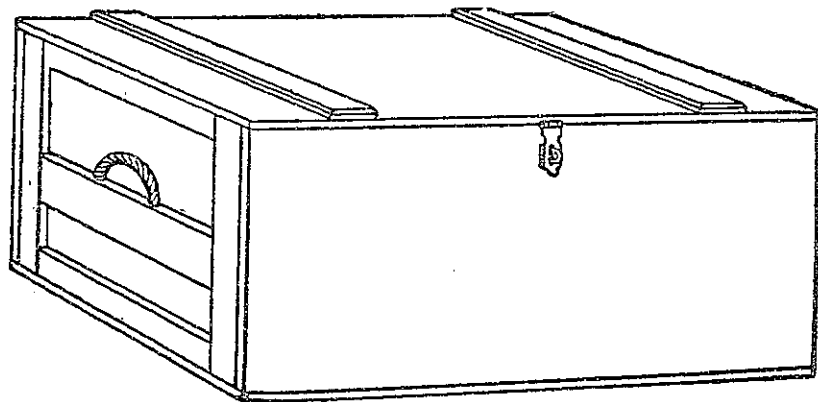
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