

## HANDBOOK

## ENTRANCE and FIRST YEAR

## Chem-Math-Physies

Expert supplementary instruction by our experienced teachers will help you to use your study hours to the best advantage, to get the most out of your courses and to obtain proper practice in applying mathematics to problems in science and engineering

## THE ASSOCIATED TUTORS

410 MEMORIAL DRIVE

CAMBRIDGE, MASS.
KIRkland 4990

## DID YOU KNOW?

A musician's life is fun! We know one who became so enthusiastic about his hobby-record collecting-that he opened a record store opposite M. I. T. At THE RECORD SHOP you get a service of valuable advice-only if you wish it. Have you heard records on their high fidelity equipment? You can listen in perfect bliss to that pianissime part of a Beethoven Quartet without hearing a whisper from the next turntable which may be blaring out a Spike Jones "creation." Or if you enjoy watching the bassoons and piccolos cavorting through symphonic scores you will want to browse among the orchestral scores (they're inexpensive). You will find everything from the newest unbreakable vinylite as well as UHCA, Commodore, Bluenote, etc., to Victor and Columbia in stock. Also the best buys in phonographs and radios. We have an up-to-date and carefuily selected stock of books on or about music and musicians. Expert packing and shipping services.

## THE RECORD SHOP

90 MASS. AVE., "OPPOSITE TECH," CAMBRIDGE

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## THE TECHNOLOGY

## CHRISTIAN ASSOCIATION

## PRESENTS

## THE HANDBOOK

## 1946

VOL. L

STAFF

LOUIS B. WADEL, 2-46, Editor
RALPH SEGEL, 2-48
FREDRIC EHRICH, 2-47
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MARSHALL DICK, 10-47
JOHN KUNSTADTER, 2-48
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TO $\operatorname{INCOMING}$ <br> \title{
TO $\operatorname{INCOMING}$ <br> <br> STUDENTS
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Karl Taylor Compton
President of the Institute

## WELCOME FROM THE PRESIDENT

## To Members of the Freshman Class:

Most of you have served in some branch of the armed forces and are returning to your studies after an extended absence from academic life. You come with your service experiences still fresh in your minds, and you have probably fallen out of the habit of carrying on organized study. You may have forgotten-temporarily-some of the fundamentals of science on which your future professional work will be based. Both of these difficulties are a natural consequence of the business of waging war. However, I want to emphasize that these difficulties are temporary, and with a modest amount of application you can surmount them quickly.

All of you come back with a more mature outlook, and the resulting wisdom will serve well to give you a clear perspective as you tackle your professional studies.
M.I.T. has been engaged for five years in research of great magnitude under the Army, the Navy, and other government agencies. The task of terminating these projects imposes many problems on the institution, which may prevent us during the transition period from moving immediately to the full prewar educational schedule. Yet you will have every opportunity to lay the groundwork for a useful and important career in your chosen field. The needs for technical men of the highest caliber will provide added incentive for you in your academic work.

You will be in good company while you are at the Institute. I know that you will feel thoroughly at home here and that you will do your part in helping us to carry on the great work of liberal education in the spirit of our fine tradition.

Karl T. Compton

## WELCOME FROM THE OFFICE OF THE DEAN OF STUDENTS

To First-Year Students:
A cordial welcome to the Institute:
The past few years of the war emergency have demonstrated the need for well trained men in engineering and scientific fields; the opportunities in these fields, with the return to peacetime conditions in the world, will be just as great. Therefore, it behooves each individual to prepare himself well for the service he seeks in fulfilling his professional ambition. Part of this preparation will come in the Institute's lecture halls, classrooms, and laboratories, but the balance of this preparation can be attained only through each one's interest and participation, as a campus citizen, in the activities sponsored by the M. I. T. Undergraduate Association.

In making your adjustment to your Technology surroundings the following pages of the Handbook will help to inform you on the tradition, background, and operation of Student Government; the different enterprises it conducts; the implied opportunities it offers you to develop into a campus leader by sharing in the community endeavors. These advantages, together with the intensive academic program, should qualify you, in the years to come, as professional men of breadth and sound citizenship as well as loyal Technology alumni.

H. E. LOBDELL

## TECHNOLOGY TIPS

Life at Tech. M. I. T.'s motto is "Tech is Hell," and the old school lives up to its motto. The most valuable tip which we have to offer is to get your studying out of the way first, then look around for some fun. It is rumored that the Technology curriculum is so taxing upon the student that he finds no time for any social life at all, but there is plenty to be had. Dances, concerts, and parties are frequently held, and there are enough girls' colleges around Boston to make up for the small number of coeds at the Institute. There are no regulations on clothing, so bring everything you think you will need. It gets hot in the summer and cold and stormy in the winter.

SUPPLIES. It would be advisable to bring with you any slide rules, drafting instruments, and athletic equipment that you happen to have. Paper, textbooks, and other supplies should be purchased here.

Room Numbering. At first you may think the system of numbering rooms in the main building cryptic. You will soon learn, however, that it is entirely logical and makes it very easy to reach any location with no other knowledge than the number of the room itself. The main buildings are divided into sections, each bearing an identifying number. The section under the great dome is Building 10. From this location facing the river, odd-numbered buildings are on the right, even-numbered on the left, starting at the extreme wings near the river. Thus, Building 1 is on Memorial Drive at the corner of Massachusetts Avenue, and Building 2 is at the opposite extremity toward Walker Memorial. The building number is the first figure
in each room identification. Each floor is assigned its appropriate number in hundreds. The basement is 000 ; the first floor is 100 ; the third floor 300 ; and so on. The room itself is identified by the last two figures, as 46 or 39. As an example, Room 3-270 is in Building 3 (as indicated by 3-) on the Massachusetts Avenue wing, on the second floor (200), and is numbered 70.

Information Sources. For general information about M. I. T., you will find the Information Office in Room 7-111. On registration day, obtain the General Bulletin here. This tells about books, assignments, and the like, necessary for your first classes at the Institute. This office also has copies of the M. I. T. Catalogue for those requesting it. The Catalogue is a complete directory to the Institute, containing a listing of courses and subjects, Institute faculty and officers, the year's calendar, and a great deal of other important information. The Information Office also has street directories and timetables, and a notary public.

The T. C. A. office has up-to-the-minute information on theatres, churches, and museums, as well as local street directories, maps, and timetables.

Student Deposit Accounts. Student deposit accounts may be opened free of charge by any registered student at the Cashier's Office, Room 10-180. There is no minimum balance required at any time. You may withdraw up to $\$ 25$ twice a week, and larger amounts, when needed, with permission of the Bursar.

Lockers and Towel Service. There are convenient lockers for coats and books located in the basement of

Building 2. There are also lockers in the Swimming Pool and the Field House. Locker rental is 75 cents a year, with an additional $\$ 1.00$ refundable key deposit. Upon payment of a $\$ 2.00$ fee, students will receive a card entitling them to an unlimited number of clean towels during the year on return of used ones. Rentals and fees may be paid and keys obtained at the office of the Superintendent of Buildings and Power, Room 3-005.

Medical SERy'ice. All entering students are required to receive a complete physical examination at the Homberg Infirmary in Building 11. The examination is free, and includes a chest X-ray and a dental check-up. Appointments are made at the reception desk on the first floor of the Infirmary. In case of illness, accident, or emergency, call the Infirmary at KIRkland 6900 (day) or KIRkland 2926 (nights, Sundays, and holidays), where you will receive all medical aid needed, free of charge. A physician is on duty all day, and nurses are on duty day and night.


## FRESHMAN CAMP FOR ENTERING STUDENTS

MEN entering the Institute are subject to a change in environment and in their routine. A great percentage of those entering are from prep or high school. Some are foreign students who are not well acquainted with American customs. Many are older men who have been recently discharged from the armed forces and are now seeking to complete their education. It is the primary purpose of the T. C. A.-sponsored Freshman Camp for Entering Students to provide the easiest and speediest adjustment to the Tech environment.

Freshman Camp has been streamlined in the past few years and is being held on the Institute grounds for March and June classes. For the September class, camp is held at Lake Massapoag where, in the very informal atmosphere of the outdoors, the freshmen have an opportunity to meet and talk with a group of leading upperclassmen, faculty and alumni.

The Camp is designed to acquaint new students with Tech life and traditions, and with the all-important student activities. Talks by President Compton and important members of the faculty present the opportunities offered by the Institute, and what is expected of the Tech man during his stay here.

Freshman Camp for Entering Students proves of great value to every man new to Technology. Be sure to send your application in early for the demand for reservations has always been great. Rules state that no freshman attending the Camp may be rushed by fraternity members during any of the sessions.

## TECH SONGS AND CHEERS

Tune, "Solomon Levi"<br>Take Me Back To Tech

I wish that I were back again
At the Tech on Boylston Street
Dressed in my dinky uniform,
So dapper and so neat.
I'm crazy after Calculus;
I never had enough,
It was hard to be dragged away so young, It was horribly, awfully tough-

## Chorus

'Rah for TECHNOLOGY!
'OLOGY, 'Ology, oh-
Glorious old TECHNOLOGY
'Ology, 'Ology, 'Ology, 'Ology.
Take me back on a special train
To the Glorious Institute-
I yearn for the inspiration of
A technological toot!-
I'd shun the physical, quizzical Prof.,
And chapel and all that;-
But how I would love to go again.
On a Scientific Bat.

Back to the days that were free from care
In the 'ology, Varsity shop,
With nothing to do but analyze air
In an aneometrical top;
Or the differentiation
Of the trigonometric powers
Of the constant pi that made me sigh
In those happy days of ours.

## M-A-S-S-A-C-H-U-S-E-T-T-S I-N-S-T-I-T-U-T-E -

O-F-T-E-C-H-N-O-L-O-G- and Y comes after G
The Massachusetts Institute of Techonolgy.

> Words by I. W. Litchfield, '85.

Give a rouse, then in the Maytime
For a life that knows no fear! Turn the night-time into daytime
With the sunlight of good cheer!

For it's always fair weather, When good fellows get together, With a stein on the table

And a good song ringing clear.

## Choras

For it's always fair weather When good fellows get together, With a stein on the table

And a good song ringing clear.
Oh, we're all frank and twenty
When the spring is in the air;
And we've faith and hope aplenty,
And we've life and love to spare;
And it's birds of a feather
When good fellows get together,
With a stein on the table
And a heart without a care.

## Chorus

And it's birds of a feather
When good fellows get together
With a stein on the table
And a heart without a care.

For we know the world is glorious
And the goal is a golden thing, And that God is not censorious

When His children have their fling;
Then slips its tether
And good fellows get together With a stein on the table

In the fellowship of spring.

## Chorus

And life slips its tether
When good fellows get together With a stein on the table

In the fellowship of spring.

When the wind comes up from Cuba
And the birds are on the wing, And our hearts are patting juba To the banjo of the spring,

Then life slips its tether
-When good fellows get together, With a stein on the table In the fellowship of spring.

## Chorus

Then life slips its tether When good fellows get together, With a stein on the table

In the fellowship of spring.

Sons of M.I.T. And as we raise our steins on high
Arise, ye sons of M. I. T.
In loyal brotherhood,
The future beckons unto ye
And life is full and good,
Arise and raise your steins on high,
Tonight shall ever be,
A mem'ry that will never die
Ye sons of M. I. T.
Once more thy sons, oh M. I. T.
Return from far and wide,
And gather here once more to be Renourished by thy side,

To pledge our love for thee, We join thy sons of days gone by In praise of M. I. T.

Oh loyal sons of M. I. T.
When clouds of war burn red, In foreign land, on distant sea

Your battle line is spread,
To you we raise our steins on high
Wherever you may be,
And join your voices from the sky, Ye sons of M. I. T.

Words and music by
John B. Wilbur, '26.

## TECH CHEERS



## WE ARE HAPPY-TECH IS HELL

T-E-C-H-N-O-L-
O-G-Y
TECHNOLOGY! TECHNOLOGY! TECHNOLOGY
TEAM! TEAM! TEAM!

## GRADING SYSTEM

EVEN the best of schools must have a grading system. The grades given at M. I. T. range from $H$ at the top to FF at the bottom. For purposes of computing term and cumulative ratings, each grade is assigned a score:

$$
\begin{aligned}
& \mathrm{H} \text { (passed with honor) . . . . . . } 5 \\
& \text { C (passed with credit) . . . . . . } 4 \\
& \text { P (passed) . . . . . . . . . . . } 3 \\
& \text { L (passed low) . . . . . . . . . } 2 \\
& \text { F (failed) . . . . . . . . . . . } 1 \\
& \text { FF (failed completely) . . . . . . } 0 \\
& \text { D (deficient or incomplete) . . . . . } 2 \\
& \text { Abs (grade withheld because of absence). } 0
\end{aligned}
$$

Other grades given, but not scored as such, are J, attended; N, no formal grade reported; D Exp., deficiency satisfactorily explained; Abs E, absence satisfactorily explained.

For purposes of computing ratings, each subject is assigned a certain number of units. For instance, 8.01 (first term Physics), is a 6-5 subject, that is, it is rated as having six hours of class work and five hours of homework, making 11 hours or units altogether. Similarly, 5.02 (7-4) carries 11 units, M 21 (3-6) carries nine units, and so on.


Term ratings are computed as follows: (a) for each subject the grade score is multiplied by the subject units; (b) these products are added and the sum is divided by the total number of units (hours). taken during the term. This quotient is the term rating.

Cumulative ratings are designed to show a student's progress during his stay at Tech. The method of their computa-

tion is the same as that for term ratings, except that the total of the "score times units" for all terms is divided by the total number of units taken since entrance.

A student is disqualified if his term rating is below 1.40 any term, if his record is below the minimum scholastic standards two terms in succession, or if his record is below the minimum standards for a total of three terms. The minimum standards are (1), term ratings of 2.00 for the first two terms and 2.20 thereafter; and (2), cumulative ratings 2.00 in the second term, 2.15 in the third, 2.20 in the fourth, 2.30 in the fifth, 2.35 in the sixth, 2.45 in the seventh, and 2.50 in the eighth and any succeeding terms. Even when cumulatives are below the standards, a student will be considered to have met minimum requirements if his term rating is above 2.20 for the second term, 2.50 for the third and fourth terms, and 2.70 for all succeeding terms.


YOUR class will be divided into three groups: those who live in the fraternities, those who live in the dormitories, and those who commute either from home or from a boarding house. You will be faced with the choice of living quarters almost immediately. Before making a definite decision, ask yourself the following questions:

1. Will my quarters permit me to work efficiently without any disturbing influences?
2. Will my life be well balanced, with companions whose comradeship will be conducive to work and study, but with whom I can have a good time in my leisure hours?
3. Will my quarters permit adequate facilities for my meals?
4. Which of the three possibilities will offer me most for the amount of money that I can afford?

The fraternities, most of which are located on the side of the Charles River opposite the Institute, offer a style of living more nearly resembling home life than do the dormitories and provide more group social activities. In the dorms one can live quite independently of others right on the campus. Commuters, of course, enjoy the benefits of the genuine home atmosphere, but in some cases the problem of transportation may prove slightly inconvenient.

It is a fact that a man's success at Technology depends largely on his ability to concentrate when studying and to relax completely when playing. Keep this in mind when you are deciding where you will live.


## LIVING

## AT

## TECH



The Graduate House


Entertainment at the I. F. C. Dance

## FRATERNITIES

AT M. I. T. opportunities for the acquiring of social background are limited. Since a Tech man works most of the day and studies most of the might, he would do well to spend his leisure hours in the company of fellows whose ideals and whose interests are similar to his own. A man naturally wants to associate closely with men who are of the type he would meet at home and with whom he will conduct business in later life.
\& There are twenty-four fraternities here at Tech, including four which are now inactive because of the war.

However, these houses plan to become active in the near future.

There are both national and local fraternities at M. I. T. In addition to scholastic and other requirements, many of the fraternities have religious requirements. Some of the chapter houses are located along Memorial Drive, in Cambridge; others are in Brookline, one of the suburbs of Boston; but the majority are in the Back Bay area of Boston.

## RUSHING

"Rushing" is the procedure by which a fraternity selects its pledges. As a great deal must be done during rush week, each fraternity tries to obtain its desired men as soon as possible. Through letters received by the fraternities from friends of freshmen, and from the lists of entering men prepared by the T. C. A., the fraternities obtain the names of many possible members. It is then their job to contact these men, entertain them at the house, and to bid a certain number to be pledges.

However, do not hesitate to take the initiative and make a date with a house. They will be happy to see you at any time that fits in with your plans. Try to see as many houses as practicable, for only by comparison can you determine which fraternity is best for you. If you get a bid to join a house think it over carefully before accepting, because your decision is of utmost importance to everyone concerned. It goes without saying that you should be natural and not to attempt to be something that is not a true
representation of your character. One of the fraternities may ask you to spend the rushing season living at their house. This is a very common occurrence and acceptance obligates neither you nor the fraternity.

If a man receives approval of the members, he is given a bid (invited to join). An immediate answer is not expected. Before pledging, a man should know the financial condition, living costs, initiation fee, national and local position, and scholastic standing of the house. Do not be afraid to ask questions.

If you refuse a bid, there are no hard feelings. If you accept, you pledge to become a member at some future date. You will be given a pledge pin and required to learn the history and other pertinent facts concerning the fraternity. An average pledge period lasts two months.


## INTERFRATERNITY CONFERENCE

The Interfraternity Conference is the organization which binds together the twenty-four fraternities at M.I. T. Its members are fraternities of at least two years recognized standing at the Institute, and its purpose is to aid the growth of friendly interfraternity spirit. Wherever possible, it attempts to function not by imposing regulation, but by enlisting the voluntary cooperation of its members. The I. F. C. is therefore justly proud of the situation at M. I. T. under which all fraternities exist with no friction, in an atmosphere of mutual understanding, without the necessity of any artificial restraining rules.

One of the most important activities of the conference is the annual I. F. C. dance, one of the biggest proms of the year, which is held at one of the large Boston hotels with music provided by a name band.

The business of the I. F. C. is conducted at monthly dinner meetings attended by the president and one elected representative of each fraternity.

## FRATERNITIES AT M. I. T.

ALPHA TAU OMEGA, located at 37 Bay State Road, Boston, overlooks the Charles River and the Institute. Beta Gamma, one of the fraternity's 95 chapters, was chartered here at Technology in 1885, twenty years after the fraternity was founded at
 the Virginia Military Institute.

Telephone: COM 8029

> BETA THETA PI began its one-hundred and fifth year last fall, having been founded at Miami University in Ohio in 1839. The fraternity is one of the largest nationals, having 90 active chapters in 1942. Beta Upsilon, the M. I. T. chapter, was chartered in 1913. The chapter house is located at 241 Kent Street, Brookline.

CHI PHI, founded at Princeton in 1824, is
 the oldest social fraternity and was the first to be represented at M. I. T. Technology's Beta Chapter is 54 years old and is one of the oldest of the 35 active chapters of the national fraternity. The chapter house is located at 22 The Fenway, in the heart
 of Back Bay, on Fenway Park.

Telephone: COM 8355

DELTA KAPPA EPSILON, founded at Yale in 1844, now consists of 47 chapters throughout the country. The Sigma Tau chapter, founded at M. I. T. in 1890, has its house at 403 Memorial Drive, overlooking the Charles River in Cambridge.


Telephone: KIR 3233


DELTA PSI, better known as St. Anthony Hall at its other eight chapters, was founded at Columbia University in 1847. Commonly called the Number Six Club, the Tau Chapter was founded at M. I. T. in 1899 at Number Six Louisburg Square, but it has since moved to 428 Memorial Drive, Cambridge.

Telephone: KIR 0666, KIR 0667

DELTA TAU DELTA was founded at Bethany College, West Virginia, in 1859.
 There are now 76 active chapters throughout the U. S. and Canada. Beta Nu, the M. I. T. chapter, was chartered in 1889 . The chapter house is located at 255 St. Paul Street, Brookline.


Telephone: LON 8713

DELTA UPSILON, founded in 1834 at Williams College, has grown to be one of
 the largest national fraternities. There are chapters in 61 colleges and universities throughout the United States and Canada. The Technology Chapter, now in its o3rd year, is located at 526 Beacon Street, Boston, just across the Charles River from the Institute.

Telephone: COM 8124

KAPPA SIGMA was founded at the Uni-
 versity of Virginia in 1869 and is now one of the largest in the country, with 110 chapters, located both in the United States and Canada. The Gamma Pi chapter is located at 33 Bay State Road, Boston, overlooking the Charles River and the Es-
 planade.


LAMBDA CHI ALPHA, founded at Boston University in 1909, has 107 active chapters in the United States and Canada. The Lambda chapter, chartered at M. I. T., in 1912, is located directly across from the Institute at 441 Beacon Street, Boston.


Telephone: COM 9102

PHI BETA EPSILON, one of M. I. T.'s oldest fraternities, was founded at Tech in 1890. Its position as the only local fraternity at the Institute represents the decision that to accept affiliation with a national brotherhood would mean the loss of the prestige and individuality that has
 come to the fraternity. The house is at 400 Memorial Drive in Cambridge, overlooking the Charles.

Telephone: TRO 2341

PHI DELTA THETA, founded in 1848 at
 Miami University, Oxford, Ohio, has grown to include, before the war, 108 active chapters in the United States and Canada. The Technology chapter, Massachusetts Gamma, founded in 1932, is located on the Boston side of the Charles River at 97 Bay State Road.


Telephone: COM 8691


PHI GAMMA DELTA was founded in 1848 at Jefferson College, and now has 74 active undergraduate chapters throughout the United States and Canada. The Technology chapter, Iota Mu , was chartered in 1389 and is now located in the heart of Back Bay, Boston, at 28 The Fenway.

Telephone: COM 8048

PHI KAPPA was founded at Brown Uni-
 versity in 1889 as a fraternity for Catholic students. Eta chapter, the seventh of 24 active chapters, was chartered at M. I. T. in 1918. The house is located on the Boston side of the Charles River at 229 Commonwealth Avenue.



PHI KAPPA SIGMA was founded at the University of Pennsylvania in 1850. Since then the chapter roll has been enlarged to a peace time limit of 40 chapters. Alpha Mu was founded at M. I. T. in 1903, and has occupied its present house at 530 Beacon Street, Boston, since 1922.

Telephone: COM 2968


PHI MU DELTA was founded at the University of New Hampshire in 1918. The M. I. T. chapter, Nu Delta, was started in 1922. The present chapter house is located at 460 Beacon Street, Boston, directly opposite the Institute.


SIGMA ALPHA MU was founded at the College of the City of New York in 1909. Xi Chapter, one of the 36 active chapters of the fraternity in the United States and Canada, was founded at M. I. T. in 1917. The chapter house is located at 222 Babcock Street, in Brookline.

Telephone: LON 9666

SIGMA CHI was founded at Miami Uni-
 versity, Oxford, Ohio, in 1855. Alpha Theta chapter, the first fraternity established on the M. I. T. campus, is at 532 Beacon Street, Boston, across the Charles River from Tech. As one of more than a hundred active Sigma Chi chapters, Alpha
 Theta is in its sixty-fourth year.

Telephone: COM 8459

SIGMA NU was founded in 1869 at the
 Virginia Military Institute. Originally the fraternity was known as the Legion of Honor and the brothers were called knights. Sigma Nu now has ninety-six active chapters in forty-six states. Chapter number 100, Epsilon Theta, was founded at M. I. T. in 1922 and is located at 259 St. Paul
 Street in Brookline.

Telephone: LON 9083


THETA CHI was founded in 1856 at Norwich University. Beta Chapter was established at Technology in 1902, and from that time the fraternity continued to expand until it reached its present size of 68 chapters. The chapter house is at 528 Beacon Street, Boston.


Telephone: COM 7790, COM 7698


THETA DELTA CHI, the eleventh national secret fraternity to be organized, was founded in 1847 at Union College. Theta Deuteron is one of 28 charges holding charters from the national order. The charge at M. I. T. was established in 1906 and is now located at 314 Memorial Drive, over-
 looking the Charles River.

Telephone: ELI 9809

THETA XI was founded at Rensselaer Polytechnic Institute in 1864. Since then
 the fraternity has acquired 38 chapters all over the country. The Delta Chapter at M. I. T. was founded in 1885 . This gives the chapter a record of almost 60 years of continuous operation, a record equalied by but one other fraternity at Technology.
 The Delta Chapter is now situated at 66 Bay State Road, Boston.

Telephone: COM 7655


## LENOX CLUB

The Lenox Club was founded late in 1942 when a group of Tech Seniors, who were evacuated from the dormitories to make room for the Army, rented a large house convenient to the Institute. Since its origin the group has efficiently organized and has added men from time to time until, at the present time, all the classes in school are well represented. The chief difference between this group and other Tech fraternities are the absence of a national affiliation and restriction of membership to a relatively small group. Located at 37 Lenox Street in nearby Brookline, the house has a distinctly suburban atmosphere.
TELEPHONE: BEA. 5435.

## M. I. T. STUDENT HOUSE

Through the interest of an anonymous donor the M. I. T. Student House has been established at 111 Bay State Road in Boston. Thirty students live in this house, doing all the work except the cooking, thereby effecting a material saving in living expenses. In addition to this, members maintain a house social program consisting of formal and informal dances, and participate in many other activities. A hostess resides in the house and assists in its operation.

Candidates for residence should apply to Mr. Pennell N. Aborn, Student Employment Bureau, Technology Christian Association, or to the executive committee of the house for an application blank or for additional information.

## LATIN AMERICAN HOUSE

The Latin American House was founded in November, 1943, with the main purpose of providing accommodations and guidance to Latin American students and to serve as a place of understanding among countries of Latin America and a point of connection between students of North and South America. Initially started with twenty members, it hopes to provide a larger number of students with these facilities and has a diversified schedule of activities for the present year.

Since the House was founded, many lectures and cultural meetings have taken place. It is the purpose of the organization to follow through with this policy of intellectual and social contacts.

The Latin American House is conducted by a committee elected by its members, which is in charge of maintaining a high level of scholarship, comradeship, and spirit of solidarity among them and also intensifying social connections with students of the United States. It is also responsible for giving to the members of the house all the possible assistance that they need in their scholastic life, particularly by assigning upperclassmen the job of tutoring those students who find any difficulties in their daily work.

The house is located at 116 Beacon Street.
TELEPHONE: COM. 9559.

## DORMITORIES

FOR the man desiring a happy balance of a good measure of work and plenty of fun during leisure hours with congenial comrades, the Dormitories are the ideal solution. In the Dorms you can avoid both the clannishness of small fraternity groups and the loneliness of living in a boarding house. There are excellent opportunities both for complete concentration when studying and for complete relaxation in a spare-time "bull session." Because dorm men know how to work and play and achieve a good balance of the two, cumulative ratings and spirits are generally very high.

The mind of the newcomer to the Dormitories is quickly struck by the abundance of thriving activity which makes the Dorms such an enjoyable place for college men to live. The Dorms have sports' teams open to all residents. They play the fraternities, the Student House, the Lenox Club, and the Latin American House in the Beaver Key tournaments, as well as intramurally. Sports in the Beaver Key tournaments are basketb a ll, baseball, touch football, swi m ming, and track. Other sports and games played intramurally by Dorm residents are bowling (in the Walker Memorial alleys), tennis, ping pong, and chess. These offer good opportunities for relief from the "grind" in a healthful way with a group of other fellows.

A man is given a good opportunity to meet new people with various backgrounds and interests and to cultivate friendships with men of his own general interests. Every class from Freshman to Senior is represented and the upper-classmen are invariably willing to help when a subject gets "rough." Or, if the student prefers, he may thrash things out with fellow classmates.

A large part of the Dorm residents find it most convenient to eat their meals at the immediately adjacent Walker Memorial. This is one of the more convenient opportunities for a brief get-together on week days.

The Dorms have a social program which consists essentially of acquaintance dances with nearby girls' colleges; the Christmas Dance, a gay formal or semi-formal all-Tech affair, which is traditionally sponsored by the Dormitories; a "bull-session" dinner each term to which several faculty members are invited by the students; and at least one student-faculty tea each year held in the Burton Room. On most of these occasions and during all other large campus social affairs, there is open house in the Dorms. Otherwise, the Burton Room is the only place in the Dorms where women may be received. This lounge occupies the first floor of Munroe Hall. It provides a most convenient change of atmosphere, where men may relax to read magazines, listen to the record collection and bring their friends.

Perhaps the most obvious advantage of the Dormitories is their proximity to Institute activities, both curricular and extra-curricular. Walker Memorial is the center of undergraduate extra-curricular activities and is but a stone's throw from the Dorms. Similarly, the Alumni Pool, the sailing pavilion, the play field, board track, gym, tennis courts, and the Institute are but a few minute's walk. Dormitory men are very active in student life.

The student Dormitory Committee is directly responsible for conducting all programs and considering all sug-
gestions which have as their object the maintenance and the improvement of life in the Dorms. This is a representative body composed of two upper-class representatives elected by each Hall, two members-at-large, plus the chairmen of nine standing committees. Including among these are the Dance, Athletic, Open House and Tea, and Dinner Committees. There is room on these committees for men interested in exercising their leadership abilities.

Life in the Dorms gives a person a sporting man-toman connection with his fellow students and a chance to make and develop friendships that will last the rest of his life.

Through the many sponsored activities, the M.I.T. Dormitories provide a place where men may play as well as work. The emphasis is, as throughout the Technology family, primarily placed upon academic studies. Life is well balanced at the Dormitories so that the student can, if he wishes, properly distribute his work and play in order to make his stay at M.I.T. pleasant as well as profitable.

## GRADUATE HOUSE

Graduate students reside in the Graduate House which is located on the corner of Massachusetts Ave. and Memorial Drive. Its six floors consist primarily of suites each of which accommodate several men. Dining facilities are available in the Graduate House.

## 5:15 CLUB FOR COMMUTERS

APPROXIMATELY one-third of the student body at Technology is commuters. These hardy souls suffer more than the usual hardships of Technology life, for they bear the additional strain of having to travel distances to and from school. Many is the student who arises at 6:30 in the morning to catch the $7: 27$ out of Surburbia and who arrives just in time to hear the $9: 05$ bell ring. These men live by their watches; their sole source of exercise is elbowing their way through subway crowds and running up escalator stairs to catch the $5: 15$ with thirty seconds to spare.

Being a commuter prevents a student from participating very actively in school affairs. In order to correct this tendency, the 5:15 Club was organized in 1939 and has been instrumental in bringing the far flung travelers of Technology together. In just the couple of years before the war, the $5: 15$ Club became the largest single activity in the school. The war drastically curtailed the membership and activities of the organization, but it is rapidly attaining its pre-war status.

The large clubroom in the basement of Walker Memorial serves many purposes. It is the social center for commuters. It is a place in which you can eat your lunch and do your studying between classes. Several of the popular magazines are subscribed to regularly, so you can read these between classes. Table tennis facilities are available to members. Many of the small informal parties and dances of the 5:15 Club are held in the clubroom.

Many of the commuters have become very active in Institute extra-curricular life despite the disadvantages of traveling back and forth. The 5:15 Club enables you to meet these students and obtain information about any school activities in which you might be interested.

The club, itself, plays a major role in Institute life since it is the representative of one-third of the student body.

It holds a permanent seat on the Institute Committee, sponsors teams in the Beaver Key athletic tournaments, and participates in many dances and other social activities, both for club members and for the entire school.

The club is managed by an executive committee composed of a President, Vice - President, Secretary, Treasurer, and two Members - at-Large. The only requirement for membership is that the student not live in the dormitories or th e fraternities.

Many men who come from far out of town commute from nearby boarding houses. A list of available rooms may be obtained at the T. C. A. office.

5:15 Club Finds Moments of Relaxation

[33]

EVERY student who wishes to lead a life well balanced with respect to scholastic endeavor should plan to include activities in his curriculum. Not only are non-academic interests a constant source of pleasure and relief from the grind of "brown-bagging," but they play a large part in developing a mature, thinking person.

The primary importance of an activity to the individual is that it furnishes him the opportunity to meet and work together with other people. Most of the activities enable a person to make contacts which may last long after his stay at the Institute. Besides affording much pleasure, activities allow a person to follow those fields of work in which he is particularly interested and in which he may do something constructive. Even if you, as freshmen, have never done anything in a certain field, you may still enjoy the activity involving that particular work, for there is ample opportunity for you to learn as you go along.

The choice of an activity demands consideration of two points: whether the activity will benefit you and whether you like, or think you will like, the work. Depending on the amount of effort you exert in the field, your activities can produce benefits which will be appreciated in the future as well as during your college days.

## ACTIVITIES




Sailing Pavilion and Walker Memorial

## INSTITUTE COMMITTEE

THE central legislative body of the student government system at Tech is the Institute Committee. This group is composed of three representatives from each class and one representative from each of the major activities of the school, a total of 27 men.

The Institute Committee is responsible for making all decisions regarding the administration and financing of student activities and athletics. In almost all instances; the administration of M. I. T. places responsibility over student affairs in the hands of the Committee.

All students, both on and off the Committee, realize that the organization and its influence on the student body at large is not perfect. Hence, the efforts of the members of the group are directed constantly toward improving the effectiveness of the Committee and making student selfgovernment more complete and more beneficial to the students.

The President of the Senior Class is President of the

Institute Committee ; the Chairman of the Budget Committee is the Treasurer; and the Vice-President and Secretary are elected from and by the members. These men, plus a Representative-at-Large chosen from and by the members of the Institute Committee, and the chairman of the Walker Memorial Committee, make up the Executive Committee, whose function is to gather facts about matters relating to student affairs, and to make recommendations on the basis of these facts.

Standing sub-committees, described in detail later, attend to certain special matters such as budgets, room assignments for activities, bulletin boards, etc. In addition to these standing sub-committees, temporary committees are frequently appointed to investigate and report upon questions which arise from time to time.

This government cannot function to best advantage without the support of all undergraduates. The meetings of the Committee are open to the students, who should attend occasionally in order to become more familiar with the functions of the Committee and the abilities of the activity leaders and class representatives. In this way the students will be better able to elect capable men as their representatives to the Committee.

## WALKER MEMORIAL COMMITTEE

The Walker Memorial Committee, an executive subcommittee of the Institute Committee whose function is to coordinate undergraduate activities, is composed of one senior, who serves as chairman, three juniors, and six sophomores. New members are selected to the committee by means of a competition held for second-term freshmen,
who are chosen on the basis of their ability as evidenced by the duties involved in the competition.

The duties of the Committee are numerous and varied. The group is responsible for the enforcement of the house rules of Walker Memorial and handles room assignments in the building. The Committee also authorizes the use of such Institute facilities as bulletin boards, blackboards, and tables in the main lobby. In the Walker office are kept on file the constitutions of all student activities, a complete list of officers of organizations, minutes and other records of the proceedings of the Institute Committee, and reports on dances held in Walker Memorial.

Further duties of the Committee are to inform preparatory schools of noteworthy achievements of their alumni and to maintain a record of the number of points credited to participants in Institute activities as specified by the Points System, which is designed to prevent individuals from overloading themselves with extra-curricular work.

## ELECTIONS COMMITTEE

The purpose of the Elections Committee is to conduct elections for the class offices, Junior Prom Committee, Senior Week Committee, and Senior Class Marshals elections, all of which are by the preferential system of balloting. Often the Elections Committee holds popular elections that may be required on any referendum to the student body or on the initiative of students as directed by the Institute Committee. Besides the regular class elections, which are held at the end of each academic year, the Elections Committee directs Freshman Council elections.

The Committee consists of a chairman and seven associate members. The chairman is a senior and is a member. [38]
of the Institute Committee. The associate group consists of at least two seniors and three juniors. Sophomores are elected to the Committee after a competition held in the second term of their freshman year.

## BUDGET COMMITTEE

The responsibility for making a fixed income match the expenditures of the major undergraduate activities and the athletic teams belongs to the Budget Committee, a standing sub-committee of the Institute Committee. This small, appointed board goes about the harrowing task of making ends meet by trimming the annual organization budgets to suit the income, which is derived from student dues.

The chairman of the committee is aided in his labors by his position on the Undergraduate Budget Board and the Institute Committee. From the former he gets advice from the administration, while the latter keeps him instructed on the functions of the various activities.

Each activity is required to submit regular financial reports to the Budget Committee. With these figures the chairman and his two or three assistants carry on their tussle in their little den on the second floor of Walker Memorial. Thus the committee fights bravely on, with black ink on the right, red ink on the left, and eradicator at dead center.

## JUNIOR PROM COMMITTEE

The Junior Prom is one of the most important social events of the year. This occasion is marked by a complete week-end of parties and dances. There is a formal dance with a name band at one of the big hotels on Friday night,
and on Saturday night there are a couple of fraternity parties to which all who hold Prom tickets are welcome.

The Prom is run by the Junior Prom Committee which consists of the President and the Treasurer of the Class, who direct the Committee, and five special members elected by the Class.

## STUDENT-FACULTY COMMITTEE

Working quietly and effectively, the Student-Faculty Committee through discussion and suggestions promotes cooperation between the faculty, administration, and the student body.

The committee consists of seven faculty members, appointed by the President of the Institute, and a student group of three seniors, three juniors, two sophomores, and one second-term freshman, who are appointed by the student head. The present faculty chairman is Professor J. H. Keenan of the Mechanical Engineering Department.

Problems concerning individual courses, staff instruction, and other such academic matters are brought up and examined at the deliberations of the student group. Such problems as are considered worthy of attention are then presented to the faculty chairman, who investigates the subject at hand. A dinner meeting is customarily held in order to bring the student and faculty branches together for open discussion. It is requested that all student problems pertaining especially to courses and teaching be brought to the attention of the student members either orally or in writing.

## THE TECH

IN any organized group it is essential that there be some means of interchanging news and ideas. At M. I. T. The Tech, the official undergraduate newspaper, has this function. It has filled this job for sixty-five years, being the oldest activity at the Institute.

Published once a week, The Tech offers thorough training and experience in all the varied fields connected with the publication of a newspaper. From the time an event occurs until the paper appears on campus-sports, news, feature and editorial writing, business management, advertising sales, design and lay-out, bookkeeping, photography, photo-engraving, makeup, and circulation-all phases of newspaper work are carried out by the student staff members.

Not only do staff members learn how a newspaper organization works, but because of the nature of their work they soon gain an excellent knowledge of the Institute, the faculty, and the various undergraduate activities. Freshmen have always done a considerable amount of the work on The Tech, and with fewer upperclassmen at school now on account of the draft new men who show ability will find ample opportunity for rapid promotion.

Position on The Tech are awarded on a competitive basis. The positions of reporter and staff member are open to all entering freshmen who serve as candidates for a short time. Ordinarily, the most able freshmen are elected as staff assistants in their sophomore year. At the board elections and banquet held at the end of each volume, sophomores are elected to Junior Board positions such as News Editor, Advertising Manager, Sports Editor, and Treasurer, and four juniors are elected to the Managing Board. These four men-the General Manager, Editor, Managing Editor, and Business Manager-determine the editorial policy of The Tech and have full responsibility for the success of the entire organization.

## THE TECH ENGINEERING NEWS

PROMINENT among undergraduate publications at M. I. T. is The Tech Engineering News. T. E. N. is a scientific journal, connecting the student body and the alumni in the industrial world. By means of student-written articles, publication of which is administered solely by undergraduates, T. E. N. is able to advertise the views and interests of those who are the potential engineers of industry. Articles by Institute professors are eminent in their role of description and expression of Institute affairs. Thus students and alumni are able to keep in touch with the current developments in many specialized fields.

To one joining T. E. N.'s staff, the benefiis of a close alliance to Technology are greatly enhanced. There is a difference between existing in a technical world and actually contributing to it. The preparation and writing of articles imparts to the student certain elements of writing that are seldom realized in composition courses and, other than the large amount of personal satisfaction resulting from actually writing a technical paper, there is the development of a clear and logical style that is so valuable to the student and graduate engineer. No matter what the field, a well-written paper is circulating a good impression of the author; poorly written ones do not go far enough to circulate any impressions.

Especially to those interested in business administration and techniques, the experience gained from contacts with advertising agencies and large companies in the form of letter writing is very helpful. Development of the ability to obtain and continue a contact in the business world is of sizable significance to one entering an active economic society. There is no better experience than actually doing.

Journalism and business, as well as photography, are available to the student through the facilities of The Tech Engineering News.

## VOO DOO

"GET 'em here; get 'em while they're hot from the presses. Get your Voo Doo here! Get your laugh for today. Are you just going to sleep through class? Read Voo Doo!" So runs the chant of Voo Doo's salesmen. Tech's craziest activity is at it again.

Voo Doo is M. I. T.'s humor magazine. It comes out every month, replete with Voodoings (news and views about Tech), sideviews (descriptions of leading upperclassmen), jokes, stories, cartoons, and the other things that go with a college humor magazine.

Voo Doo's staffs offer opportunities to men of all types. For the creative geniuses, there is "Lit," the branch producing those strange freaks of literature known as $V o o$ Doo's short stories. There is art, which creates Voo Doo's inimitable cartoons and pin-ups, or make-up, where in one mad night the issue is "slapped together."

Budding businessmen bring in the necessary funds to carry on the magazine. There are openings in the treasury, circulation, publicity, or advertising departments. Without these staffs Voo Doo could never continue. There is practical experience in salesmanship waiting for those who decide to join the advertising staff. The publicity department plans sales drives, both at Tech and neighboring girls' colleges. The circulation staff sees that subscribers get their issues regularly.

Voo Doo has two important things to offer the incoming men, practical experience in working with others and a chance to get away from the usual grind. Voo Doo isn't just a magazine; it's a way of life; and remember, don't miss the smoker.


Uoodooings.

## TECHNIQUE

FOUNDED in 1885, Technique is the second oldest publication at M. I. T. The first Technique was a small paper-bound volume, very different from the leather-bound volumes of today. In the years since the first publication Technique has grown and developed into an annual which is a credit to Technology as a permanent record of all school activities. Several times Technique has been awarded the All-American Honor Rating by the National Press Association of the University of Minnesota, Department of Journalism.

Soon after registration day, Technique holds a Freshman smoker to explain to the incoming men the opportunities for them in the various departments: advertising, circulation, literary, photographic, and treasury.

The organization of Technique is simple, yet efficient. The book is managed by a senior and junior board, assisted by a freshman-sophomore staff.

The members of the junior board each have charge of one department and are assisted by several sophomores working under them. The Advertising Manager and his staff gain practical experience by meeting and doing business with people during the course of their solicitations. The Circulation Manager conducts several campaigns and in general has charge of the distribution of the book. The Treasurer handles all of the financial affairs, besides working with the Business Manager in deciding how much money is to be spent.

The captioning and gathering of all the pictures that go into the year book are the business of the Organizations Editor. Actual photographing is handled by the Photographic Editor. The Biographies Editor sends questionnaires to all the faculty and seniors and compiles this information in the faculty and senior sections of the yearbook.

The staff offices, on the third floor of Walker Memorial, are open to one and all for information about Technique and its functions.

## TECHNOLOGY CHRISTIAN ASSOCIATION

THE T. C. A. is a non-sectarian organization devoted to student service. Its aim is to help Technology realize her highest ideals.

## EMPLOYMENT BUREAU

Student employment at Tech is under the supervision of the Student Employment Bureau of the T. C. A. This Bureau endeavors to find part-time employment for Technology students. Because for the greatest portion of your time you will be occupied with your regular school work, it is unwise to count too heavily on income from a part-time job.

## ENTERING-STUDENT ORIENTATION ${ }^{\text {- }}$

Since 1926, the T. C. A. has organized and directed a pre-school "camp" to acquaint new students with student activities and Tech life and traditions.

Of special value to entering men is The Handbook, of which publication this is the fiftieth volume. Compiled and published by the T. C. A., The Handbook is made available to all. This book is intended to serve as a guide to student life at the Institute. It stresses the opportunities that are available to a man for broadening his background and his perspective through student activities. It is written on the thesis that a man is not really a student at Tech unless he has participated in the Technology student. community, and that a man is not deriving full benefit from the Institute if he has not been active in student. life.

## LECTURE SERIES

One of the most important functions of the T. C. A. is to offer lectures on topics of social and phllosophical
significance to the student body. These programs are particularly welcomed because Techmen exhibit a very considerable interest in the important problems of the day. These meetings are designed to make the student a citizen as well as a scientist.

## RELIGIOUS AND RELIEF WORK

The Religious Action Division makes available in the T. C. A. office a list of places of worship which are located within a reasonable distance from the Institute. All religions are listed.

The T. C. A. strives to further the work of the several religious organizations on campus and engaged in an interfaith program.

The T. C. A. organizes book and clothing drives for relief causes.

## OTHER SERVICES

The T. C. A. maintains a ticket service through which theatre, symphony, and football tickets may be obtained at box office prices. The entire transaction is completed in the T. C. A. office thus saving the student a trip into Boston. The T. C. A. also operates a book exchange in which students may leave second-hand books, drawing boards, instruments, etc., for sale at no more than two-thirds of the price originally paid. A list of available rooms in Cambridge and Boston is maintained for those men who are unable to obtain accommodations in the dormitories or fraternities.

Married students should contact the Housing Bureau, $4-132$, for available apartments. Also available in the
T. C. A. office are maps of Cambridge and Boston, as well as road maps and train, bus and airplane schedule.

## TECH CABIN

Tech Cabin, a $\$ 6,000$ house on the shores of Lake Massapoag, is located just 36 miles from the Institute. Organizations sponsor week-end outings throughout the school year with parties numbering up to 35 persons. Application is to be made to the T. C. A.

The T. C. A. has its office in the basement of Walker Memorial. To carry on its program, undergraduates are needed in the various divisions, and entering men are welcome and invited to enter the organization.

Active direction and the determination of policy are in the hands of the student members of the executive committee and the cabinet. Each year, in order to meet the expenses of its undergraduate activities, the T. C. A. conducts a drive among the students of the Institute. Money for the staff salaries is collected through a solicitation of faculty, alumni, and parents by the Advisory Board.

## BOYS' WORK DIVISION

The T. C. A. Boys' Work Division is engaged in obtaining Tech men to act as leaders in Settlement Houses and Y. M. C. A.'s throughout greater Boston. Boys' Workers, teaching crafts, arts, hobbies, coaching sports and leading clubs and scout troops, have a considerable influence on younger boys and have helped to mold them into better citizens. In addition to performing a greater social service, volunteers get from this interesting work first hand experi-
ence in developing leadership qualities, an insight into some of today's social problems, and the immense satisfaction of helping others. In conjunction with its boys' work, the T. C. A. each year gives several hundred dollars towards sending underpriviledged boys to summer camp.

Boys' Work has risen to a top place among the T. C. A. activities and is now one of the largest at M. I. T. No previous experience in social work is necessary. Freshmen and co-eds are particularly welcome to the division. Boys' Work, though, is not all work and no play-dances with the girls' schools which are interested in this work and an annual banquet are traditional events among the Boys' Workers.


Wallace M. Ross General Secretary


Pennell N. Aborn Employment Secretary

## NAUTICAL ASSOCIATION

ONE of the chief sources of diversion for Tech students is sailing on the Charles River Basin directly opposite the school. At the disposal of the undergraduate body, as well as other Institute personnel, are a fleet of forty dinghies and four 110 class sloops. The Nautical Association, membership to which is open to all persons connected with Tech, administers the sailing program throughout the year.

Regular courses of instruction are conducted for the benefit of beginners and for persons seeking to improve their technique in racing. All members are required to pass qualifying tests before being privileged to skipper the dinghies. Those desiring to regard sailing as an activity rather than just a recreational pastime have the opportunity of assisting at the pavilion with the possibility of becoming Cox'ns, Bos'ns, and officers. Formal races are held on Saturday and Sunday afternoons, while informal competition is conducted during the week.

The Technology sailing team, which engages in many dual meets and a number of regattas, has distinguished itself during past years in intercollegiate circles by its consistently excellent performances. Among M. I. T.'s competitors are Harvard, Coast Guard Academy, Brown, Williams, Dartmouth, Cornell, Yale and Navy.

## COMBINED MUSICAL CLUBS

BY far the largest organization on the Tech campus which appeals to the cultural side of Tech engineers are the M. I. T. Musical Clubs. The entire organization is composed of over one-hundred and fifty men. These participate in one or more of the three subdivisions of the Clubs: the M. I. T. Glee Club, the Concert Orchestra, and
the Techtonians. All three are united under a single managerial board, composed of about fifteen undergraduates.

The Glee Club, conducted by Mr. Henry Jackson Warren, is the largest of the three. Its members, numbering over a hundred, travel to more than a dozen girls' schools in New England, where they hold joint concerts. They also give concerts in Boston as an individual club several times each year, including one on "Tech Night at the 'Pops'," where they are accompanied by the famed Boston "Pops" orchestra. The club's repertoire ranges from 16 th century liturgical chants to modern selections.

The Concert Orchestra has recently been reorganized and affords great opportunities for those interested in classical music for instruments.

The "Techtonians" is a group of addicts of "sweet and swing." This band is normally composed of about fifteen pieces and is very much in demand for Tech functions.

There are many opportunities in the M. I. T. Musical Clubs for freshmen, both as musicians and vocalists, and also in managerial positions. The clubs as a whole welcome the incoming freshmen classes to their activities.

## M. I. T. BATON SOCIETY

T${ }^{1} H E$ Baton Society is the honorary musical organization at the Institute to which upper classmen are elected when they have shown outstanding interest in musical endeavors. It is composed of both students and Faculty members and it tends to serve as a clearing house for major problems that arise in the various organizations comprising the MUSICAL CLUBS. The basic purpose of the Baton Society is to encourage musical interest at the Institute and its main function of the year is to sponsor an "All Tech Sing" which is a song contest that any group at Tech may enter. A cup is awarded the winning group.

## OUTING CLUZ

THE M. I. T. Outing Club is an organizafon whose principal activitJ is recreational trips, square dances, and other such functions, which are generally conducted over the week end. Founded in 1935, the M. I. T. O. C. is associated with the Intercollegiate Outing Club Association, which also claims branches at Harvard, Rad-


Week-end Outing cliffe, Wellesley, Tufts, Sargent, Simmons, and Jackson.

The Outing Club at Tech represents one of the most active organizations on the campus. The O. C. pursues an ambitious schedule the year round, making many trips into the regions surrounding Boston. During the spring, summer, and fall the club indulges in rock-climbing, cycling, canoeing, and hiking, while occasional week-end camping ventures are arranged to augment the program of day trips. Popular during the winter season is skiing on nearby slopes. The Outing Club, besides promoting recreational skiing, also backs the ski team which represents M. I. T. in intercollegiate competition.

During vacation periods special trips are undertaken to such outlying spots as Stowe, Vermont and Mount Washington, New Hampshire. Aside from the outdoor activities monthly square dances are sponsored by the I. O. C. A.

Newcomers are urged especially to participate in Outing Club activities, since the trips are planned particularly for novices. Every journey is under the supervision of several experienced men. The equipment of the organization, such as rock-climbing gear and cooking utensils, may be borrowed by club members at any time. Also available on payment of a small fee are skis, poles, and hooks.

## ASSOCIATION OF WOMEN STUDENTS

THE social activities of every co-ed during her stay at Tech revolve around the A. W. S. The association was formed to promote friendship and good times among the women students and to help in as many ways as possible. All women students automatically become members when they enter Tech.

The "home" of the A. W. S. is the luxurious suite of rooms in Building 3 given to the girls in memory of Margaret Cheney, one of Tech's first women students. The suite consists of a living room, large kitchen, study, rest room and locker room. From nine to five there's always something going on-studies, lunch-making, bridge games, or just a friendly chat. The living room is always well supplied with magazines and newspapers. The regular business meetings, teas, and dinners are held in these rooms.

At present the chief interest of the group is the planning of a dormitory for the girls; the members are always busy orienting newcomers, be they freshmen, transfers, or graduates. Each new girl has a "big sister" who takes it upon herself to assist that girl in finding her place. The professional societies and many of the other activities are

Margaret Cheney Room
 open to women students, so that anyone interested can certainly find many ways to spend leisure time. Tennis, swimming, a nd sailing are also open to the girls.

## HOBBY

 SHOPTHE Hobby Shop, located in the basement of Building 2 , is the place for you who have hobbies you want to pursue. The shop offers facilities for all types


At Work in the Hobby Shop of metal and wood working; it has wood and metal lathes, a milling machine, and circular and band saws. For budding radio men, there are meters and testing equipment. There is also a ventilated darkroom equipped with enlargers, running water, and safelights. In addition there is a print shop with several faces of type, where invitations and tickets are often made up. Don't feel that just because you came to Tech you have to stop living; keep up with your hobby in the Hobby Shop.

## ROCKET RESEARCH SOCIETY

THE M. I. T. Rocket Research Society is a student organization to promote interest and research on rockets and allied problems. All interested persons may become members and attend the weekly meetings. These meetings consist of discussion concerning basic and advanced theories and their relations to the experimental work being carried on by the society. The society publishes pertinent articles written by its members; also, it aids students doing thesis work on rockets.

## DRAMASHOP

THE only dramatic organization on the campus, the Dramashop offers a wide variety of positions for students interested in the theater. The Dramashop each term presents a play, generally staged in the New England Mutual Hall. Thus, providing an opportunity for persons attracted by acting or stage work to exercise their talents, the Dramashop is an important element in the program of extra-curricular activities.

No previous experience in dramatics is necessary for participation, for positions on the cast and management are competitive. The only permanent office is that of SecretaryTreasurer; the remaining management is selected for each production on the basis of previous demonstrated ability. Professor Dean M. Fuller of English department is dramatic coach and faculty advisor. All interested are invited to drop in at Dramashop headquarters, Room 2-176, at any time.

## MATHEMATICAL SOCIETY

THE Mathematical Society consists of a group of students interested in the extra-curricular study of mathematics. Its purpose is to encourage interest in mathematics on the part of the student. Weekly meetings are held in which talks are given by professors or members. Lectures on advanced subjects are dealt with one week and elementary subjects the next; occasionally a series of talks on one topic is given. Special freshman mathematical orientation lectures are frequently presented.

## PHYSICS SOCIETY

THE Physics Society is a group of students interested in physics outside the scope of the regular courses at the Institute. The club sponsors lectures dealing with recent developments in the field or specialized aspects of a subject. Occasionally a trip through such places as the cyclotron or the Van de Graaff generator is arranged.

## CHINESE STUDENTS’ CLUB

THE Chinese Students' Club was founded in 1916 to knit the Chinese students at Tech and other colleges together in close fellowship and cooperation. Every Chinese at M. I. T. is automatically a member.

Since the Club was founded, many public lectures by outstanding Chinese and Americans and discussion of international problems have taken place. In addition to parties and dances, there is an annual athletic meet with a corresponding organization at Harvard University. In order to keep the members informed of the current activities of the Club, a Bulletin is published every three weeks.


## HINDUSTAN ASSOCIATION

ALARGE part of the foreign students of M. I. T. are from India. For them the Hindustan Association has been formed. Lectures by distinguished persons from India and discussions of Indian problems are sponsored by the club. Indian holidays, such as Indian Independence Day, are observed and programs of Indian music are conducted. The fundamental purpose of the organization is to orient Indian students in their new surroundings, to acquaint Americans with Indian life, and thus to pave the way for the future equality of India as a world power.

## INTERVARSITY CHRISTIAN FELLOWSHIP

THE M. I. T. Intervarsity Christian Fellowship is a group in which all students can learn the meaning of Christianity and in which Christians can enjoy spiritual fellowship. The group meets each Wednesday for study of the Bible, the word of God, as it applies to us. Men of very interesting backgrounds speak at special meetings of the Fellowship. All meetings are announced on the bulletin boards, and all members of the student body, faculty, and staff are invited to attend.

## HILLEL FOUNDATION

THE B'nai B'rith Hillel Foundation at M. I. T. is an organization devoted to cultural, religious and social work among Jewish students at the Institute. Its primary emphasis is upon such programs as assist the student in acquiring an understanding of the vast field of Jewish culture and of contemporary Jewish affairs. This program is conducted through lectures and discussion groups. The Hillel Foundation also provides opportunities for the Jew-
ish student to maintain contact with traditional observances through holiday celebrations, and presents a program of social activities in conjunction with Hillel members at other schools. It is an important aim of the Foundation to present to the large Institute community an appreciation and understanding of Jewish life, and to join with all other groups in such activities as permit deeper understanding of each other.

Incoming students will find membership in the Hillel Foundation an opportunity for making friends and having interesting and enjoyable associations.

## CHRISTIAN SCIENCE ORGANIZATION

THIS organization was founded in 1921 under provisions of the Manual of The Mother Church to encourage Christian Scientists at M. I. T. in the utilization of their religion and to afford them opportunity to meet their fellow Christian Scientists here and at neighboring colleges. All are cordially invited to the organization meetings held each Tuesday at 5:10 p. m. in 7-138. Other activities include the sponsorship of a Christian Science lecture, a shelf of authorized literature in the Central Library, and dinners or outings with organizations from nearby colleges.

## CATHOLIC CLUB

THE aim of the M. I. T. Catholic Club is to further the knowledge of, and interest in their faith, of the Catholic students at Tech. With a current membership of about a hundred students, the organization has rounded out fourteen years of existence on the Tech campus.

The Catholic Club conducts a series of weekly meetings, at which prominent clerical men of the district often speak. Discussion on current topics of religion is also a part of these weekly gatherings.

The regular sessions are supplemented by various other activities, including communion breakfasts and dinners. Dances with the clubs of such neighboring schools as Radcliffe and Wellesley add to the social program.

## DEBATING SOCIETY

AN excellent opportunity for gaining valuable experience in public speaking and debating is offered to Tech men by the M. I. T. Debating Society. This organization has expanded rapidly in the past several terms and is quite active. Its members enthusiastically take part in the debating activities and divide their time between the Society's office, which is generally a hubbub of activity, and the office of the coach, Mr. Edward F. Perry, whose help and experience have made possible the excellent record of the past year.

The schedule covers a wide variety of opponents. Outstanding features of the schedule during the past year were radio debates in New York City with Columbia University and New York University, tournaments at West Point and Williams, and an excellent record of victories in some twenty-five other intercollegiate debates.

The activities of the Society are by no means confined to debating, however; some members devote all their energy to managing the schedules, publicity, finances, and other affairs.

## M. I. T. RADIO SOCIETY

THE M. I. T. Radio Society is one of, if not the oldest, organization of its kind in the world. Organized in 1909, the Society has since that time built up complete transmitters for operation on all of the popular amateur bands. The outbreak of the war forced the society to vacate its "shack" (formerly located where the radiation laboratory now stands) and disband for the duration. Now that the war is over the Society has reorganized and is located in its new "shack" in Room 10-369. While the Society is intended primarily for licensed amateurs, its doors are open to all who are interested in amateur radio, and classes in radio code and theory are conducted for those who wish to become "hams."

## INTERNATIONAL ASSOCIATION

THE Technology International Club, founded in 1938, is run for the benefit of all Tech students. The International Club not only helps students from here and abroad get together and become acquainted, but it also provides much needed social relaxation and cultural contacts. A few of its social activities are: the annual Cosmopolitan Festival of entertainment, dining, and dancing; smaller acquaintance and couples' dances either here or at girls' colleges; and outings. Culturally, there are talks on international topics, student panel discussions, and other activities.

Membership is open to all students.

## HONORARY SOCLETIES

HONORARY societies at M. I. T. are of several kinds. They might be grouped into those which honor men of outstanding scholastic record, those which single out men for active participation in activities, and those which elect men of athletic achievement.

The national honorary engineering fraternities, of which Tau Beta Pi , open to all those in any engineering field, and Alpha Chi Sigma, open to those in chemistry and allied fields, are the two most active for undergraduates at Tech, place greatest emphasis on scholastic achievement. However, they are also concerned with a man's outside interests, his activities and hobbies, his character and personality. Though these honorary fraternities are fundamentally recognition societies, they are very active about school, holding dinners, sponsoring lectures and movies, and organizing social functions. One of the best aspects of these fraternities is that they foster friendly relationships with faculty members on an informal basis.

The societies which honor activity men, such as the Beaver Key, honorary junior society, or Gridiron, honorary literary society, elect men on the basis of their achievements in the various activities about Tech. These societies too are generally concerned with more than a man's record, for they consider also personality and interests. Generally they have an auxiliary function besides being a recognition society. Beaver Key, for instance, runs athletic tournaments for the dorms and fraternities and also acts as ambassador to visiting teams.

The athletic honorary societies, such as the Track Club, Swim Club, and Boat Club, are generally open to winners of varsity letters in the respective sports. They are active socially, as they hold outings, parties, and dinners.

Besides the societies described above, there is the honorary dormitory society, Dorclan, and the dorm sophomore club, Agenda, which keeps an eye on dorm freshmen.

## PROFESSIONAL SOCIETIES

AT present there are nine active professional societies at Tech, although in normal times there have been as many as twelve such organizations represented on the campus. The majority of these bodies are student chapters of national societies and enjoy the advantages of belonging to such parent organizations. Each group is open to those who are in a course sponsoring the society.

All of the national societies belong to the Combined Student Professional Society, which stimulates growth of membership in the individual groups, supplements the social activities of the member organizations, and facilitates joint programs between societies.

Each society has as its purpose the furtherance of student interest in the chosen field of professional study, as well as providing a common meeting ground of men of mutual interests. They all sponsor lectures and movies, which are open to the entire Tech family. These gatherings afford sources of knowledge on modern developments and applications in the engineering world. Several societies sponsor plant trips for members to various industries which give a first hand insight into the work of their profession. Naturally each society highlights its year with several social activities, such as dinner meetings and smokers.

## PROFESSIONAL SOCIETIES

[^0]AN integral part of Tech life, athletics are important to the individual for the same reasons as are activities. When you arrive at M. I. T., however, you will find the prewar program of compulsory physical training suspended. For physical exercise, therefore, you are obliged to rely wholly on your own initiative to participate in some sport. To ignore completely all athletic activity, you may find your habits of sound, wholesome living impaired by inactivity.

The purpose of athletics at Technology is not to develop highly trained athletes, but rather to encourage students to participate in some form of physical recreation. No one can live by mind alone. A good engineer has a healthy body as well as a sound mind. It is not necessary that you be on the varsity in order to gain all that you can from the sport. It is also not necessary for you to have participated in that sport before, for there are sufficient provisions for instruction. Many of the men who achieve a position with the varsity teams at Technology began their efforts as novices.

Since the Institute doesn't grant special concessions for athletics, the element of time requires that most sports be such that a large number of men need not be gathered to permit the function of the sport. You will find, therefore, that you can fit athletics into your program as your academic schedule demands. Whole-hearted participation in at least one sport will certainly benefit your stay at Tech.


## ATHLETICS




Up and Over!

## ATHLETIC ASSOCIATION

THE M. I. T. Athletic Association, commonly referred to as the "A. A.", is composed solely of undergraduate students and is in complete charge of the athletic program. Since this organization administers the work which in most colleges is handled by a paid athletic director, it occupies an essential position in the sports set-up at Tech.

The personnel of the A. A. is comprised of the Executive Committee, three members of which are undergraduate members of the advisory counsel on athletics, and the captains and managers of the recognized teams. The Executive Committee consists of the recognized teams. The Executive Committee consists of seven members: the President, the Vice-President, the Secretary, the Treasurer, the Publicity Manager, the Equipment Manager, and a Member-at-Large.

The general function of the Association is to promote and supervise athletic interests. As examples of several of the main duties of the body, the A. A. is responsible for budgeting the various varsity sports, is in charge of drawing up team schedules, and manages the equipment
of the teams. The board has the power to rule on such decisions as arise, for instance, when efforts are being made to revive a sport after a temporary suspension.

Positions on the M. I. T. A. A. are open to all undergraduate students. Freshmen desiring to become affiliated with the organization are given the opportunity to apply for positions and ultimately to attain full membership. If a man is interested in serving in a managerial capacity, he is offered the chance to familiarize himself with the demands of the job.

The position of manager offers an excellent opportunity for training in leadership and cooperation, for the manager must be the link which binds the team, the coach, and the Athletic Association into a working unit. The manager carries the responsibility of contacting other schools for engagements, and drawing up a financial budget for the season, arranging for transportation, meals, and lodging on out-of-town trips. He has a voice in the monthly Athletic Association meetings, where he can report on his work and make suggestions for the improvements.

Men attracted to business management can exercise their talent in the A. A. treasury department. Sophomores are eligible for the position of Junior Assistant Treasurer, from which rank the Treasurer is annually selected. The Treasury Department is responsible for all financial matters involving the M. I. T. A. A.

Outside of the sports program under the jurisdiction of the A. A., there is no form of compulsory physical education for civilian students. The freshmen are urged especially, therefore, to participate in some sport on their own initiative in order to enjoy the recreation and physical training that complement scholastic endeavor.



Runners Pound Track at Briggs Field

## TRACK

TRACK, often referred to as the leading sport at the Institute because of the number of participants and the length of the season, is an ideal sport for maintaining top physical condition. Since track is an individual sport, students can take their daily work-outs in the afternoon at whatever hour their schedule will permit. Track activity takes place on Briggs Field the year around, as Tech carries an indoor schedule as well as the usual summer and fall program.

Excellent facilities, including the twelve-lap board track and a new quarter-mile cinder track, guarantee a set-up unequalled for its advantages in providing a bodybuilding program. Under the guidance of veteran Coach Oscar Hedlund, Field Coach Bob Bowie, and Trainer "Doc" Johnson, the men who come out profit from their experience and also enjoy the competition.

Competitive interest is maintained throughout the year
by a series of intramural and intercollegiate meets. A series of handicap and interclass contests, in addition to an annual Freshman Competition, is scheduled. Cups and medals are awarded on the basis of performance.

Collegiate competition is planned for both the indoor and the outdoor seasons. Unlike in previous years freshmen are now permitted to compete on the varsity teams, thereby gaining added experience and the opportunity to take part in the more important meets.

The success of the Tech teams has contributed not a little to the popularity of the sport. The varsity sees action against many teams of the East, such as Brown, Tufts, Holy Cross, Northeastern, Bates, W. P. I., and Williams. In addition meets are arranged for the freshmen and junior varsity teams with prep schools and colleges around Greater Boston.

## CROSS COUNTRY

RANKING high as one of the finest opportunities for healthful, energetic, outdoor recreation, cross country is one of Tech's leading fall sports. Most of the cross country runners are generally regular track men who take advantage of the opportunity for distance running.

Intercollegiate matches in the past have regularly been held with Bates, Harvard, Massachusetts State, Tufts, and Dartmouth. The team competes also in the New England Intercollegiate Meet in Franklin Park and in the I. C. 4-A Meet in Van Courtlandt Park in New York.

Men interested in cross country should report to Coach Oscar Hedlund at the Briggs Field House.

## SQUASH

SQUASH, a winter sport which requires no previous experience for a newcomer to attain proficiency, provides excellent opportunities for intercollegiate and intra-mural
competition. Tech offers splendid facilities in this sports department, as eight new courts were built just two years ago behind the Alumni Pool.

Squash is under the supervision of Jack Summers, who himself has held the National Squash Championship five times. Under the expert tutelage of Coach Summers, M. I. T. has turned out teams that rank high in the field of intercollegiate play. Last year's squad dropped only one of seven matches.

Members of the squad are graded by means of a "bumping board" system. Besides the varsity, which competes in the A division of the Massachusetts Squash Racquets Association Tournament, two teams are chosen which play in the $B$ division of this tourney. Intra-mural play calls for either a freshman or a junior varsity tournament and the Emerson Cup Tournament, which determines the Institute champion.

## SWIMMING

OPPORTUNITIES for swimming at M. I. T. are indeed excellent, for all students and others associated with the Institute are free to make use of the pool at almost all times, although reservation of the pool by the navy has somewhat curbed civilian liberties during the past two years. Built in 1939, the Alumni Pool, one of the most modern pools in the country, is twenty-five yards long, is excellently illuminated by virtue of a complete frontal exposure to daylight, and is provided with a spacious gallery. Special hours, generally in the evening, are set aside for recreational swimming for women, as well as for mixed swimming.

Swimming is one of the highlights of the varsity sports program. With a normal schedule of some eight or ten meets, the Tech varsity has stood well in New England
competition throughout the years. Last winter's team emerged victorious in four of seven du al meets, triumphing over Bowdoin, Brown, R. P. I., and W. P. I., while succumbing to Williams, Wesleyan, and the Coast Guard Academy. The season, running from December to March, is climaxed by the New England Intercollegiate Swimming Association champion ships, which for the past few years have been held in the Alumni Pool because of its ideal location and excellent facilities.

Coach of the swimming team is Gordon Smith, who, besides directing the teams, offers lessons to non-swimmers and beginners in the off-season. Last spring Coach Smith conducted hour sessions, running from four to five o'clock, several times a week.


Diving in Alumni Pool

however, are eligible to compete in inter-collegiate circles as members of the varsity. With the end of the war, the original schedule, including Varsity, J. V. and freshman teams will be operating.

Although concrete plans for this year's schedule have not as yet materialized, signs from the previous war-time seasons promise that Tech will carry a normal program. This year's team played some seventeen games, meeting Harvard, Tufts, Brown, Trinity, Worcester Polytech, Stevens, Bates, Boston U., and the substitutes on the varsity, forming an improvised J. V., engaged in several contests last year, although no formal schedule was drawn up.

Athletic Director Henry P. McCarthy has perennially coached the varsity.

Although no organized intra-mural basketball is sponsored by the school, teams representing various fraternities and the dormitory halls annually utilize the gymnasium for the Beaver Key Basketball Tournament, so that there is an opportunity to play basketball aside from being a member of the varsity. In hours when the gymnasium is not in use by the varsity or any other assigned group, it may be reserved by application to the Walker Memorial Committee, which is in charge of room and hall reservations in Walker Memorial.

## GOLF

AFTER a year of suspension, golf was resumed once again this past spring. The season began after the first week in April with a match against the Naval Academy at Annapolis. During the last complete golf season, in 1943, the team met Boston University, Harvard, Brown, and Worcester Polytech.

## CREW

THE popularity of crew at Tech is attested by the liberal turnout of men which has appeared at the beginning of the past few seasons. Among the regular competitors that M. I. T. meets during the course of the season are Harvard, Navy, and Cornell. A crew event is always featured in Field Day competition, so that freshmen will have an opportunity to form a team and test their skill against the sophomores.

Crew this season is under the direction of James B. McMillin. Coach McMillin in 1936 was a member of the U. S. Olympic crew.

The M. I. T. Boat House is located on the Charles River about a mile southwest of the school. The practice season gets winter practice now under way about the middle of January, with the first intercollegiate match coming toward the end of April. The campaign is generally concluded early in June. Besides the varsity crew the junior varsity, $150-\mathrm{lb}$. varsity, and freshman teams also customarily engage in intercollegiate contests.

[74]

## SKIING

SKIING has long been an important recreational sport at M. I. T. Last year competitive skiing was reinstituted when the ski team was organized after an absence of two years from collegiate competition. The team engaged in five meets, and although handicapped by lack of practice, showed up favorably against such teams as Dartmouth, Middlebury, and West Point. All interested skiiers are urged to report at the Outing Club office for complete information.

## LACROSSE

LACROSSE is a relatively new sport at Tech, inasmuch as the team was started in 1940. Nevertheless the varsity each year faces many of the best teams in the country. The 1946 season includes games with such schools as Dartmouth, West Point, R. P. I., Tufts, and Stevens. The LaCrosse season extends from March until May. No experience is necessary, and all new comers are urged to participate in this sport.

## TENNIS

THE tennis team, coached by Jack Summers, who also heads squash, is active throughout the spring and summer. Before intercollegiate play is under way, a tournament is staged in order to determine ten top men to form a tentative team; thus all participants are given the opportunity to display their ability.

## SOCCER

THE Soccer team after a period of wartime inactivity has resumed play under the tutelage of Coach John Craig. The season extends from September through November and games are played with such teams as Brown, Wesleyan, The Coast Guard Academy, Tufts, Harvard, etc. All interested are urged to come out for the team.

IN attaining its present position, the Massachusetts Institute of Technology has constantly kept before it three objectives-the education of men, the advancement of knowledge, and the rendering of service to industry and the nation." With these words, Karl T. Compton, President of the Institute, has described the role which Technology is playing in the world of today. The first two of these objectives concern you men of the entering class most directly. For the carrying out of these aims, the Institute is very well equipped. Its engineering laboratories, particularly those of the departments of mechanical, metallurgical, electrical, and aeronautical engineering and of the department of physics, are unexcelled. Its faculty, including some of the best men in their fields, is likewise difficult to surpass. Its reference facilities, finally, include over 375,000 technical and non-technical volumes housed in seven libraries.

These materials are here for you to use for your benefit. It is essential, therefore, that you make the most possible use out of them. Always keep in mind that the more you get out of your courses at the Institute, the more you will be of use to society when you graduate. Knowledge is not something to be absorbed by a few highly selected individuals, but is something to be passed on to others so that all may benefit from it. Here are the materials; use them to the best advantage.


## AT THE INSTITUTE




View of the Great Court

## TECHNOLOGY, 1861-1946

EARLY in the nineteenth century the liberal arts college was at the apex of our general education system. The liberal arts college provided chiefly two things: a preparatory training for the learned professions and the accepted finishing school for gentlemen. Science was tolerated in the curriculum, but by no means rated as a "discipline" comparable to the Greek and Latin classics. Medicine, the ministry, and the law were distinctly gentlemen's careers. The approach to science was largely through medicine or through geology.

Alongside this older academic tradition was the new industrialism-born seventy-five years earlier with the growth of the factory system, the use of machinery, and the division of labor-which was pressing forward eagerly and vigorously. As a result America needed highly trained engineers and scientists whom the accepted academic system could not provide.

With a lively and prophetic vision of the part that science was capable of playing in the advancement of human welfare, William Barton Rogers planned and worked for nearly a decade prior to the Civil War for the establishment of a great technological institution. After many discouragements and delays he succeeded in getting the charter signed on April 10, 1861. School opened in the Mercantile Library building at 16 Summer Street, Boston, on February 20, 1865, with fifteen students and ten members of the staff. A tablet now marks the location. The first class graduated in December, 1868. Rogers, Technology's first president, inspired in his students high ideals of intellectual leadership and public service that have given continuing vitality to Technology and that have made it an institute of national and international influence.

The early years were difficult, particularly those in the late seventies, when the administration met month after month to decide whether to close down or to try to carry on for another month. The legislature had granted M. J. T. two-thirds of the block surrounded by Boylston, Clarendon, Newbury, and Berkeley Streets on conditions that it be used for educational purposes and that buildings cover not more than one-third of the surface. On this area Tech first built old Rogers, which was occupied in 1866. At that time it stood almost alone with no other buildings near it to the west or north. With the upswing of the seventies there soon came need for more room, which was met by the Walker Building beside old Rogers. This new building was named for Francis Amasa Walker, distinguished soldier, master of statistical method, and Tech's second president. His personal charm and indefatigable energy made new friends for the Institute and drew students in redoubled numbers.

Still the housing of the new school was cramped and inadequate. The administration of Richard C. Maclaurin covered one of the most thrilling periods of Tech history, for it so capitalized Technology achievement that a flood of
funds was drawn to the school and the doors were flung wide open. With the generous financial aid of the Alumni and the hard work and planning of Institute architects and engineers, Tech was able to move to its present site on the banks of the Charles. The move across the river on the famous barge Bucentaur was made with much pomp and pageantry in 1916.

For many of our added buildings and improvements, we have to thank such fine men as George Eastman, Major Frank Briggs, Prof. A. E. Burton, Henry S. Pritchett, and all of Technology's glorious presidents.

Technology graduates have entered every field of science, of the arts, of engineering. They have become heads of research laboratories; executives in industrial, building, transport, power enterprises of foremost rank; heads of important banking and investment institutions; professors in charge of departments at universities; college


Wright Wind Tunnel
presidents; public servants for cities, states, and the nation. They have permeated the new technological America in the making and have contributed richly to practically every domain of private and public activity.

From the rented rooms in which it started with fifteen students, the Institute has grown until just before America entered the war it had a student body of over three thousand, including graduate students and Army and Navy trainees; a staff of over six hundred; a plant and endowments representing an investment of over $\$ 50,000,000$; and a living alumni body of 33,000 . The original school of "industrial science" has grown into four schools: the School of Science, the School of Engineering, the School of Architecture, and the Graduate School, which together offer over nine hundred subjects.

In a world in which science, engineering, and architecture are of basic importance, Technology offers professional, scientific, and humanistic training to fit its students as capable leaders. This is the M. I. T. which is our heritage and of which we are justly proud.



The Alumni Pool

## ALUMNI ASSOCIATION

ALL persons who have attended Technology for at least one full term have become thereby members of the Alumni Association with all the rights and privileges pertaining thereto. Since the first class graduated in 1868 over 44,000 students have become alumni. Of these over 7,000 are now deceased, over 4,000 are lost, and the remaining 33,000 are on the mailing list. There are very few countries in the world where alumni will not be found. This great body welcomes the newcomer and serves him in many ways.

The Alumni Association, through the Alumni Office, carries on manifold functions. It published The Technology Review as a combination alumni and scientific magazine which has received a number of the highest awards in the
alumni field. It maintains an up-to-date address list of alumni. It handles the annual Alumni fund, which last year netted $\$ 95,000$ for the benefit of Technology. It cooperates with over eighty Technology clubs in the United States and other countries and with nearly 200 leading alumni, designated as Honorary Secretaries, in America and abroad. Many incoming freshmen have met these Honorary Secretaries. It works closely with the Technology Placement Bureau and, in fact, with all the ramifications of administration, departments, staff, and even students. There are fifteen Alumni Term Members on the M. I. T. Corporation. Through the Alumni Council and the Executive Committee it handles many affairs of a widely varied nature. Through Advisory Councils it counsels student activities. The multiplicity of services rendered by the Alumni Association is evidenced by the annual budget of $\$ 13,592$ for the current year. Students should get acquainted with the Alumni Office and make use of its facilities for supplying information and assistance.



Central Library

## LIBRARIES

William N. Seaver Librarian

At M. I. T. you have the greatest facilities for gathering scientific and engineering knowledge. A great American engineer once said: "The important part of an engineer's education is not the massing of information but rather the knowledge of where to find the information that he needs in any situation that may arise." The largest library of its kind is at your disposal.

Central Library - Room 10-500
The Central Library is located under the dome of the central building. The library is modelled upon the Roman Pantheon; its diameter inside is 72 feet and its height 61.3 feet. It contains about 300,000 volumes and numerous periodicals on all subjects related to Institute courses and research, the entire collections in biology, chemical, electrical, and textile engineering.

## Aeronautics Library - Room 33-211

The collection consists of about 9,000 books and periodicals on all branches of aviation and meteorology.
Arthur Rotch Library - Room 7-238
The Library of Architecture has 15,000 books on architecture, sculpture, painting, aesthetics, and city planning. There are also numerous photographs, portfolios, maps, and lantern slides.

Dewey Library - Room 5-330
In this library there are about 8,000 volumes on civil and mechanical engineering, building, and naval construction and 9,000 books on business subjects.

Eastman Library - Room 6-314
The Eastman Library contains 14,000 books on advanced chemistry, physics, and mathematics.

Lindgren Library - Room 8-304
The library has 15,000 books on geology, mining, metallurgy, electro-chemistry, and ceramics and about 5,000 maps.

Vail Library - Room 10-500 (in Central Library)
The Vail library has 40,000 volumes on electrical engineering.

Walker Memorial Library-Walker Memorial, second floor
The library serves as a recreational library and as a source of background reading for courses in English, History, and General Studies. It includes about 15,000 volumes of fiction, biography, travel, current affairs, art, and music. Connected to it is a record library with about 2,000 classical records and facilities to play them.

## HOURS

Central
Aero.
Arch.
Dewey
Eastman
Lindgren
Walker

Monday-Friday
8:45-9
9-5
9-5
9-6
8:50-9
9-5
8:45-9

Saturday
9-4
$9-1$
9-1
9-1
8:50-4
9-1
8:45-6

Hours of closing on Saturday in branches may be changed to 12 noon during summer, 1946.

## CHURCH DIRECTORY

## BROOKLINE BAPTIST CHURCH

## Coolidge Corner

REV. SAMUEL M. LINDSAY, D. D., Minister
REGULAR SERVICES
9:45 A. M. SUNDAY-Everyman's Class
11:00 A. M. SUNDAY-Morning Worship
7:45 P. M. FRIDAY - Week-Night Service
The Christian Church Exists to Say to Succeeding Generations:"THE MASTER IS COME AND CALLETH FOR THEE."
When Theodore Roosevelt was a student at Harvard University, he attended church every Sunday. He taught a Sunday School Class and sought to help the church do the job for which it came into existence.

While you are studying in Boston, we hope you will attend the Worship Service of some Church every Sunday morning. It is more important that you attend this service than any other in the program of the Church.

THIS CHURCH WAS BUILT A GENERATION AGO BY PEOPLE WHO BELIEVED THAT YOU WOULD USE IT.
COME AND HELP US!

## IMMANUEL BAPTIST CHURCH

Cor. Magazine Street and Putnam Avenue CAMBRIDGE, MASSACHUSETTS

Archer V. Turner, Pastor

Sunday Services: 10:30 a. m. \& 7:00 p.m. Wednesday 7:30 p. m.-Prayer Service

A BIBLE BELIEVING CENTER
While in our City we welcome you to make "Our Church Your Church Home"

Busses marked "Granite" pass the church

# FIRST BAPTIST CHURCH IN BOSTON 

Commonwealth Avenue at Clarendon Street REV. HARRY H. KRUENER, Minister MR. JOHN A. MINER, Young People's Director

Telephone: COMmonwealth 9119

## REGULAR SUNDAY SERVICES

10:00 The Coffee Club: a Bible study group for young adults and students.
11:00 Morning Service with the Minister preaching. A cordial welcome to all.
7:30 The Sunday Evening Club, an organization for students and working young people. Distinguished speakers each week with lively discussions following. An hour of recreation and refreshments at the end of each meeting. Social events are arranged for week-nights.

## OLD CAMBRIDGE BAPTIST CHURCH

Massachusetts Avenue and Harvard Streets, Harvard Square

REV. SAMUEL H. MILLER<br>Minister<br>REV. PRENTISS L. PEMBERTON<br>Minister to Students<br>11 A. M. Morning Worship<br>Sunday Evening Student Club<br>6 P. M. Snackery (light supper)<br>7 P. M. Worship and speaker

Fireside Hour
At 8:30 each Sunday evening following the meeting at the church, the Reverend and Mrs. Pemberton invite the group to their home, 335 Harvard Street, for an informal hour of sociability.

## ST. ANN'S ROMAN CATHOLIC CHURCH

St. Stephen and Gainsborough Streets, Boston
Rev. Henry P. Fisher, C. S. P. Parish Priest

Chaplain, M. I. T. Catholic Club
Rectory: 70 St. Stephen Street. COMmonwealth 2620
Sunday Masses: 7:30
9:30
10:30
11:45
The Paulist Fathers of St. Ann's Church are glad to be of service to the Students of M. I. T.

## FIRST CHURCH OF CHRIST, SCIENTIST

Waterhouse Street, Cambridge SUNDAY SERVICES 10:45 A. M.<br>WEDNESDAY EVENING TESTIMONIAL MEETINGS 8:00 P. M.

A Public Reading Room is Maintained at 1400 Massachusetts Avenue at Harvard Square
8:30 A. M. - 8:30 P. M.

Except Wednesday 8:30 A. M. - 7:30 P. M.

## CHRISTIAN SCIENCE CHURCH

THE FIRST CHURCH OF CHRIST, SCIENTIST THE MOTHER CHURCH<br>Falmouth, Norway and St. Paul Streets, Boston<br>SUNDAY SERVICES<br>At 10:45 A. M. and 7:30 P. M.<br>Sunday School at 10:45 A. M.<br>Wednesday Evening Meetings at 7:30 Include Testimonies of Christian Science Healing<br>Reading Rooms<br>8 Milk Street<br>84 Boylston Street, Little Building<br>1316 Beacon Street, Brookline

## PARK STREET CHURCH

Boston, Massachusetts
(Cor. Park and Tremont Streets)
Dr. Harold John Ockenga
Minister
Dr. Gleason L. Archer
Assistant Minister
SUNDAY SERVICES
9:00 A. M. Dr. Archer Preaching
10:30 A. M. and 7:45 P. M. Dr. Ockenga Preaching
Students Always Welcome

## MOUNT VERNON CHURCH OF BOSTON

Beacon Street at Massachusetts Avenue (at the Boston end of the Harvard Bridge)

CARL HEATH KOPF, Minister
THEODORE C. SCHOONMAKER, Associate Minister

## SUNDAYS

11 A. M. Morning Worship, with full Choir and sermon by the Minister.
7:30 P. M. Young Peoples' Society for students, working and service youth. This group has many Tech students in attendance and has a fully rounded program of worship, discussion and friendly social activities. Other meetings of the group are held on week nights.

Tech men welcome to all services.

## PILGRIM CONGREGATIONAL CHURCH

Magazine and Cottage Streets
"Not to be ministered unto, but to minister"
THE CHURCH is in the community to serve. If
there is any way in which our church or I can be of helpfulness, we would appreciate the opportunity.

Sincerely,<br>STANLEY H. ADDISON, Minister

TRObridge 9420
226 Erie Street

## CHRIST CHURCH

> (Episcopal)

## 1 GARDEN STREET, CAMBRIDGE

Rev. Gardiner M. Day, Rector
Rev. Frederic B. Kellogg, Chaplain to Episcopal Students Rev. John W. Ellison, Assistant Chaplain Chaplain's House 24 Farwell Place KIRkland 6475

SUNDAY SERVICES IN CHRIST CHURCH
8:00 Holy Communion
9:00 Special Communion Service for Students (Short address and music, followed by breakfast)
10:00 Morning Prayer and Sermon
11:15 Morning Prayer and Sermon
6:00 Canterbury Club-All students welcome, at Chaplain's House-Supper, Speaker, Discussion.
8:00 Evening Prayer and Sermon
Tuesdays 4:00-6:00 Student reception and tea. Wednesdays 8:00 A. M.-Holy Communion followed by breakfast.
7:30 P. M.-Study group and question hour.


# TRINITY CHURCH 

## Copley Square

Rev. Theodore P. Ferris, D. D., Rector
Rev. Gardiner H. Shattuck
Rev. Norman Spicer
Nationally famous Church where Phillips Brooks preached for 22 years

## SUNDAY SERVICES

8 A. M. Holy Communion
11 A. M. Morning Prayer and Sermon. (Holy Communion and Sermon on the first Sunday of the month.)

CANTERBURY CLUB for College Students 6 to 8:30 P. M. Supper is served at six every Sunday evening and is followed by interesting speakers, dramatics, music and social events. Students from more than 35 colleges give CANTERBURY an unusual amount of talent and varied intellectual interests.

A Cordial Welcome is Extended to All M. I. T. Students

## CHURCH OF THE ADVENT

(Episcopal-All Seats Free)
Corner Mt. Vernon and Brimmer Streets

Rev. Whitney Hale, D. D., Rector

Sunday Services
Holy Communion 7:30 and 8:30 A. M. Solemn Evensong and Sermon 6 P. M. Mass with Instruction 9:30 A. M. Young People's Fellowship 7 P.M. Solemn Mass and Sermon 11:00 A. M.

## Weekdays

Holy Communion 7:30 A. M. Confessions, Saturdays
Matins 7:15 A. M. Evensong 6 P.M. $\quad$. Thursdays and Holy Days, Holy Communion

9:30 A. M. (and by appointment; office tel. LAF 8242)

The Episcopal Church of the Advent has been one of the pioneer parishes in the Catholic Movement of the Anglican Communion, noted for its worship and music.

This parish, Catholic in teaching and practice, progressive in outlook, seeks to integrate the comprehensive religion of the ages to the concrete problems of present day life through techniques both Catholic and Evangelical.

## ALL SAINTS' EPISCOPAL CHURCH

1773 Beacon Street, Brookline<br>(Reservoir-Beacon trolley stops at door.)

Rev. Harold Bend Sedgwick, Rector.
SUNDAY SERVICES
8:00 A. M. Holy Communion
11:00 A. M. Morning Service and Sermon
8:00 P. M. Evening Prayer and Address
(Special Services as announced)

# CATHEDRAL CHURCH OF ST. PAUL 

(Opposite Park Street Subway)
Boston
SUNDAYS

11 A. M. DEAN EDWIN J. VAN ETTEN<br>preaches

Broadcast by WNAC
7:30 P. M. Special Evening Service
WEEK-DAYS
Service Each Week-day
12:10 P. M.
Monday: Book Sermon, Dean van Etten


## HARVARD ST. LUTHERAN CHURCH

321 HARVARD STREET, CAMBRIDGE (near Hancock Street)<br>GEORGE O. LILLEGARD, Pastor Office Tel. : Eliot 0915; Res. Tel. Lasell 7397

Sunday Services:

> ENGLISH-10:45 A. M.
> NORWEGIAN-1st Sunday, 11:45 A. M.

SUNDAY SCHOOL and ADULT BIBLE CLASS9:45 A. M.

Lutheran students, particularly those from Synodical Conference Churches, are invited to make their church home with us. Choir, Young People's Society and Bible Class-all will welcome you!

## AUGUSTANA LUTHERAN CHURCH

311 Broadway, Cambridge<br>(At Prospect Street Near Central Square)

Sunday Worship
10:30 a. m.
Bible Study Every Wednesday 8:00 p.m.
Luther League Every 4th Sunday 5:00 p.m.
A Sincere Welcome!

## COPLEY METHODIST CHURCH

Cor. Exeter and Newbury Streets, Boston

SUNDAYS
Morning Service of Worship-11:00 A. M.
Wesley Foundation-7:00 P. M.

You are invited to attend these services and to make this your church home away from home.

REV. LESLIE H. JOHNSON, Minister
MR. ALVAH J. SLEEPER, Organist

## FIRST METHODIST CHURCH

Temple Street, Beacon Hill, rear of State. House
Boston

Arthur D. Stroud, Ph. D., Minister

SERVICES
Sundays 10:45 A. M. and 5:00 P. M.
Wednesday 7:45 P. M.
FIRST CHURCH IS A FRIENDLY CHURCH

# HARVARD EPWORTH METHODIST CHURCH AND WESLEY FOUNDATION AT HARVARD UNIVERSITY 

Massachusetts Avenue, Opposite Waterhouse Street Just North of Harvard Square

DR. EARL H. FURGESON, Minister WILLIS P. BROWNING, Associate Minister Paul G. Anderson, Organist and Choir Director<br>11:00 A. M. Morning Worship and Sermon<br>WESLEY FOUNDATION PROGRAM

The Wesley Foundation, operated by and for youth in this student center, is sponsored by the whole Methodist Church. Students, service personnel and young people, both men and women, are invited to make it their home. The program each Sunday is as follows: 11:00 A. M., Morning Worship; 5:30 P. M., Open House with Fellowship and Recreation; 6:30 P. M., Dine-a-Mite; 7:30 P. M., Evening Worship with Speaker followed by Discussion; 8:30 P. M., Refreshments and Social; 10:00 P. M., Friendship Circle. You will find this program the inspiration and renewal that are so necessary for creative Christian living today.


# THE CHURCH OF THE COVENANT 

Berkeley and Newbury Streets, Boston PRESBYTERIAN-CONGREGATIONAL WILLIAM HENRY DENNY, Minister

Every Sunday
Divine Service and Sermon
10:45 A. M.
The Church School

> 9:30 A. M. (Children)
> 10:45 A. M. (Nursery)
> 12:15 P. M. (Adults)

Choral Vespers and Sermon
7:30 P. M.
Student Program
5:00 P. M.
(Westminster House, 185 Bay State Road. Director -The Rev. Cecil Howard Rose)
Church Youth Program, every Sunday 8:45 P. M. (Covenant Church House, 234 Commonwealth Ave.)
Every Wednesday, 8:00 P. M.- Brief inspiring service and adult Christian Education in The Chapel of St. Andrew, 67 Newbury Street (back of Church). (The Minister's informal lectures on the English Bible, the personal Christian life, the real social issues, the history of the Chusch, the vitality of the prayer life.)

# CHURCH OF THE NEW JERUSALEM SWEDENBORGIAN 

Quincy and Kirkland Streets<br>Rev. Everett K. Bray, Minister<br>Office and Parish House, 48 Quincy Street

Sunday Service 11 a. m.
Round Table 2nd and 4th Sundays of Month 5 p. m. with Supper Following

Classes and Social Occasions on Announcement

# ARLINGTON STREET CHURCH 

REV. DANA McLEAN GREELEY, Minister REV. SAMUEL A. ELIOT, D. D., Minister Emeritus<br>Rev. Robert L. Zoerheide, Minister to Students Hollis Tegarden, Student Assistant<br>Sunday Morning Service 11 o'clock<br>Gannett Club (College Age Group) Sunday at 6:00 P. M.<br>Other Services and Social Activities as Announced<br>This Church at the corner of Arlington and Boylston Streets, Boston, opposite the Public Garden, is especially interested in young people's work. The varied program of the Gannett Club is designed to meet students' needs. The Church is affiliated with the Unitarian Fellowship, but aims to be non-sectarian and to serve all who profess a free faith.

## FIRST CHURCH IN BOSTON

- 1630-

Berkeley and Marlborough Streets
REV. CHARLES E. PARK, D. D.
Minister
MORNING SERVICE 11 A. M.
William Zeuch, Organist

All Seats Free
A Cordial Welcome to Students

# KING'S CHAPEL 

REV. PALFREY PERKINS, D. D., Minister

Sunday Service at 11 A. M.
Week Day Service, 12 M., Tuesday-Friday
King's Chapel, founded 1686 as an Angelican Church, became Unitarian in 1787. Its Sunday services combine the order and
 beauty of religious worship with a liberal interpretation of the Christian Gospel. At noonday services throughout the year distinguished representatives of all denominations are guest preachers.

The Chapel Welcomes
M. I. T. Men

# THE <br> Massachusetts Institute of Technology 

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General Catalogue will be mailed on request

Address Correspondence to Director of Admissions

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## 553 BOYLSTON STREET

 BOSTON, MASSACHUSETTSDevotes itself wholly to preparation of students for the Massachusetts Institute of Technology

FRANKLIN T. KURT
Principal

## CONSTITUTION

## ARTICLE I <br> Name of Organization

The name of this organization shall be the MASSACHUSETTS INSTITUTE OF TECHNOLOGY UNDERGRADUATE ASSOCIATION.

## ARTICLE II <br> Purpose

The purpose of this organization is to regulate and control the acts of the student body in its relation to the Institute and to the general public, and to exercise such supervision over the several student activities as will insure that they are conducted in the best interest of the student body as a whole and to the credit of THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY.

## ARTICLE III <br> Membership

All registered undergraduate students at the Massachusetts Institute of Technology are by virtue of such registration members of this organization, membership to be subject to such rules and regulations as may herein or hereafter be enacted by this organization.

## ARTICLE IV

## The Institute Committee

SECTION 1. All the legislative and executive powers of this association are hereby invested in a representative body to be chosen as hereinafter provided. This body shall be known as THE INSTITUTE COMMITTEE.

SECTION 2. All acts and decisions of the Institute Committee shall be considered to be the acts and decisions of this Association except that on petition presented in writing by fifty students, within ten days of the enactment of such acts and decisions by the Institute Committee, the question shall be referred to the Association as provided in Section 3.

SECTION 3. On receipt of a petition presented in accordance with Section 2, the Institute Committee shall, within four days, issue a call for a general vote on the matter in question, the same being taken by written ballot not earlier than seven days nor later than fourteen days after the issue of such a call. Annulment of any act or decision of the Institute Committee shall require a two-thirds vote of the ballots cast.

SECTION 4. The Institute Committee shall consist of three members of each class, of whom one shall be the class president, the other two to be elected at large by the class; and one from each of the following undergraduate organizations:
$\begin{array}{ll}\text { Budget Committee } & \text { Technique } \\ \text { Elections Committee } & \text { The Tech } \\ \text { Student Faculty Committee } & \text { Tech Engineering News } \\ \text { Walker Memorial Committee } & \text { Voo Doo } \\ \text { MIT Athletic Association } & \text { Technology Christian Assn.' } \\ \text { Dormitory Committee } & \text { Nautical Association } \\ \text { 5:15 Club } & \text { Debating Society } \\ \text { Interfraternity Conference } & \text { Musical Clubs }\end{array}$

SECTION 5. Any other recognized organization (as defined in Art. VIII, Sec. 1 of the By-Laws) now existing or hereafter duly organized by the undergraduates may, by two-thirds vote of the Institute Committee, be granted representation thereon. Any activity having a representative on the committee may, by a similar two-thirds vote be denied such a representation, provided notice of the proposed action of the committee shall have been given the members of that organization and full opportunity granted them to present arguments and reasons why such action should not be taken.

SECTION 6. After the acceptance of this Constitution by the student body, the election of representatives on the Institute Committee on the part of class organizations or other student organizations shall be deemed an acceptance of this constitution and its authority.

## ARTICLE V <br> Organization of The Institute Committee

SECTION 1. The officers of the Institute Committee shall consist of a President, Vice-President, Secretary and Treasurer, who, with the Chairman of the Walker Memorial Committee and one more member elected at large by the Institute Committee from its members, shall constitute an Executive Committee.

SECTION 2. The President of the Senior Class shall be the President of the Institute Committee, and the Chairman of the Budget Committee shall be the Treasurer of the Institute Committee. All other officers of the Committee shall be chosen annually by the Committee by written ballot.

SECTION 3. The Institute Committee shall enact such By-Laws as may be deemed necessary and not inconsistent with the provisions of this Constitution.

## ARTICLE VI

## Amendments

Amendments to this Constitution may be recommended by the Institute Committee or by a petition of one hundred (100) members of the Association. Any amendments so recommended shall be submitted by the Institute Committee to the entire body for consideration by publication or posting of the proposed changes at least thirty (30) days before the day set for voting; two-thirds of the votes cast shall be necessary to adopt the same, provided twenty-five (25) per cent of the total membership vote.

## B Y - L A W S INSTITUTE COMMITTEE

## ARTICLE I

Name
The name of this organization shall be The Institute Committee.

## ARTICLE II

## Purpose

The function of this Committee shall be that provided in Article IV, Section 1, of the Constitution.

## ARTICLE III

## Membership

SECTION 1. The membership of the Institute Committee shall consist of:
a. Three representatives from each class: for the upper classes, one shall be the class president, the other two shall be members of the class elected at large by the class; for the Freshman Class there shall be three delegates from the Freshman Council elected by the Council.
b. One representative from each undergraduate organization to whom a seat has been granted, as hereinafter provided in Art. IX.
c. Those chairmen of the standing committees of the Institute Committee who are granted ex-officio membership on the Institute Committee, in accordance with the Constitution.
d. All elections of Class A activities shall be submitted to the Institute Committee for approval. All elections shall not be considered official until approved by the Institute Committee.

SECTION 2. Upon adjournment of the Institute Committee after its first meeting following the approval of class elections, the retiring committee shall be dissolved. The newly elected Senior Class President shall immediately convene the succeeding Institute Committee, Election of officers shall be the sole business of this first meeting. The retiring secretary shall act as secretary pro tempore.

SECTION 3.
a. The Institute Committee shall consist of two groups. One of these groups shall be seated in February at the second meeting. This group shall consist of the following members: the representatives of Voo Doo, The Tech, T.E.N., TCA, 5:15 Club, Budget Comtee, Elections Committee, Walker Memorial Committee, Musical Clubs.
b. Another group shall be seated at the first meeting following the approval of class elections. This group shall consist of the following members:

1. All officers elected from the classes and eligible to sit on the Institute Committee:
2. The representatives of: MITAA, IFC, Student Faculty Committee, Nautical Association, Dormitory Committee, Technique, Musical Clubs.
c. The delegates from the Freshman Class which shall take seat immediately after their election shall also be members on the Institute Committee.

SECTION 4. All vacancies in the Institute Committee shall be filled by the organization concerned in accordance with the constitution and by-laws of that organization. No person may become a member of the Institute Committee without submitting written credentials from the organization which he represents. In case the official representative of any organization cannot be present at a meeting of the Institute Committee, the Committee may, in the circumstances described in Article VII, seat a substitute who shall have written authorization signed by the absent member or by the organization which he represents.

## ARTICLE IV

## Officers

The officers and Executive Committee, as provided for in Article

V, Section 1 and 2 of the Constitution, shall, with the exception of the President, the Chairman of the Budget Committee, and the Chairman of the Walker Memorial Committee, be elected by written ballot at the first meeting, in accordance with Article III, Section 2, of these By-Laws.

## ARTICLE V <br> Duties of Officers

SECTION 1. It shall be the duty of the President to preside at all meetings of the Institute Committee and of the Executive Committee.

SECTION 2. The Vice-President shall assume the duties of President in case of the absence of the latter. In case the President resigns, however, his successor shall be elected by the Institute Committee.

SECTION 3. The Secretary shall keep all minutes and correspondence of the Institute Committee and shall send notices of all meetings to all members of the Committee. The Secretary shall further send a list of all elections and appointments that have been approved by the Institute Committee to the Walker Memorial Committee immediately after each meeting of the Institute Committee.

SECTION 4. The Treasurer shall be responsible for all moneys of the Institute Committee and all its sub-committees, and he shall receive and disburse all such moneys in accordance with, the regulations of the Budget Committee. He shall act as sole depositor for all moneys belonging to the classes.

SECTION 5. The Executive Committee shall receive and consider all matters brought before it, and shall present to the Institute Committee for action such matters as are deemed important, together with the facts pertaining thereto.

All activities named below must submit to the Executive Committee of the Institute Committee the names of the person or persons who are to hold positions listed below in said activities. Said names are to be submitted at least two weeks before public announcement. The Executive Committee is to have no power of approval or disapproval of the persons so named, but shall be furnished with such information about said persons as it desires. The Executive Committee shall regard all information, including the names of said persons, as extremely confidential and shall not enter any discussions or opinions of said persons into the minutes of the Executive Committee. This shall apply to the following activities and positions:

The Tech-General Manager, Managing Editor, Editor, Business Manager.

Voo Doo-General Manager, Business Manager, Managing Editor.
T.E.N.-General Manager, Business Manager, Editor.

Technique-General Manager, Business Manager, Editor-in-Chief.
Musical Clubs-General Manager, Concert Manager.
Nautical Association-Commodore, Vice-Commodore, Secretary, Treasurer.

Debating Society-President, Vice-President, Debate Manager.

## ARTICLE VI

## Meetings

SECTION 1. The Institute Committee shall hold meetings every two weeks throughout the school year.

SECTION 2. Special meetings may be called at any time by the President or by the Executive Committee. The President shall be required to call such meeting within three days after receiving the written request of ten members, the Institute Committee to be convened within five days of the date of the request.

SECTION 3. The order of business for Institute Committee meetings shall be as follows:

1. Roll Call.
2. Reading Minutes of Previous Meeting.
3. Special Business.
4. Reports of Standing Committees.
5. Reports of Other Committees.
6. Old Business.
7. New Business.

SECTION 4. The Walker Memorial Committee shall post the order of new business at the Institute Committee meeting on the Student Government bulletin board on the Tuesday preceding the meeting until such time as THE TECH shall resume publication on Tuesdays. Motions shall be submitted to the Walker Memorial Committee on or before the Monday preceding the meeting.

SECTION 5. A quorum for the consideration of business shall consist of two-thirds the membership of the Institute Committee.

SECTION 6. Roberts' Rules of Order Revised shall cover all procedures of this Committee except those covered by the Constitution and By-Laws.

## ARTICLE VII

## Attendance

SECTION 1. No fines shall be levied for lateness or absence but such lateness and absence shall be published in the issue of THE TECH following the meeting at which such lateness or absence occurs.

SECTION 2. A member of the Institute Committee must attend two out of three consecutive meetings in person: if he fails to do this he automatically loses his seat on the Committee. Proxies may be sent only under the following circumstances:
a. A member who is ill and out of school may send proxies for the period covered by his medical excuse, provided the medical excuse is shown to the secretary.
b. Members who participate in those intercollegiate sports at which attendance is essential and which conflict with Institute Committee meetings, may, if granted permission by a majority of the committee, send proxies for the duration of that sport.
c. If the representative of any activity cannot attend any Institute Committee meetings due to conflict with classes, the executive committee of that activity may appoint a permanent proxy for the term concerned.

A proxy must be a member of the organization which he represents and may vote on any issue.

A member who appoints a proxy is responsible for the attendance of that proxy.

If any unusual circumstances occur which prevent a member from attending a meeting in person, the Institute Committee may, by a three-quarters vote, excuse that absence.

SECTION 3. A representative to fill the vacant seat must be chosen by the organization in question and be approved by a two-
thirds vote of the Institute Committee. The new representative may be another or the same person.

## ARTICLE VIII

## Recognition

SECTION 1. Any organization appearing before the public as an MIT undergraduate organization must first be granted this privilege by a two-thirds vote of the Institute Committee. On condition that three days' notice has been given to all members of the Committee, this privilege may be withdrawn at any time by a similar vote providing the matter has been duly investigated and due notice has been given to the organization concerned. The constitutions of all such organizations shall be kept on file by the Walker Memorial Committee.

SECTION 2. Any organization desiring to be recognized as an MIT undergraduate organization must submit a copy of its constitution to the Institute Committee for approval. This constitution shall contain the following provisions:
(a) Duties of the President.
"The President, within the first month of his active term of office, shall review the copy of this constitution on file with the Walker Memorial Committee and certify as to its correctness."
(b) Duties of the Secretary.
"The Secretary shall transmit to the Walker Memorial Committee the names of all members elected or appointed to any office in the ... organization. This notification shall be made at the time such election or appointment becomes official."
(c) Duties of the Treasurer.
"The Treasurer shall submit to the Budget Committee such financial reports as the Budget Committee shall request, and shall keep the Budget Committee informed of the financial condition of the . . . organization at all times."
(d) Amendments.
"All amendments shall be submitted to the Institute Committee for approval, and shall not take effect until that approval has been granted."

SECTION 3. The organizations so recognized are those classified as Class A or Class B activities in Article IV, Section 9, of the By-Laws governing the Budget Committee.

## ARTICLE IX <br> Recognition of Class A Activities

SECTION 1. Any activity desiring Class A recognition must submit its constitution and a written summary of its qualifications for such recognition to the Institute Committee. If it is moved and seconded that such recognition be granted, the following procedure will be followed without the necessity for further motions:
(a) An investigating committee from the Institute Committee will be appointed by the chairman of the Institute Committee.
(b) The committee will examine the qualifications that activity with especial attention to: the aims of the organization and whether or not such aims are of sufficient enough importance to warrant Class A recognition; the degree of success of the organization in carrying out those aims; the number of students participating in the organization and the amount of work done by the average participant; the number of students who help in the management of the organization,
as opposed to merely sharing its benefits; and the apparent future of the organization, including consideration of its progress or decline during the past five years.
(c) The committee, at the next regular meeting of the Institute Committee following the original motion, will report on its findings concerning each of the above points, and will make a definite recommendation to the Institute Committee on whether or not the activity should be given provisional Class A recognition.
(d) Following a discussion, the chair will call for a vote on the original motion. If a majority of members present favor recognition, the activity will be given provisional Class A recognition for one year, during which it will be given a seat on the Institute Committee.

SECTION 2. At the end of the year of provisional Class A recognition, the activity shall submit a written report of its activities during the year to the Institute Committee, and shall ask that a committee be appointed to examine the qualifications of the activity The chair will then appoint such a committee. The committee shall re-examine all of the points covered by the original committee and, in addition, shall investigate the improvement or decline in the activity in its year of provisional recognition. Class A recognition may be granted to the activity by approval of two-thirds of the members present. Failure of two-thirds to approve Class A recognition will automatically classify the activity as a Class B organization.

SECTION 3. In order to withdraw Class A recognition from an activity, for reasons other than financial, the following procedure shall be observed on the presentation to the Institute Committee of a motion for the withdrawal of such recognition:
(a) A committee shall be appointed with instructions to determine whether or not such action is justified, considering each of the points listed in Section 1 (b) of this article. The committee shall submit a report of its findings at the next regular meeting of the Institute Committee following the original motion.
(b) If two-thirds of those present vote to withdraw Class A recognition, the recognition is then withdrawn, and the activity becomes a Class B organization.
(c) If a simple majority, but less than two-thirds, of the members present vote to withdraw Class A recognition the activity is put on probation for one year; during the year it retains its Class A recognition and its seat on the Institute Committee. At the end of the probationary year, a committee will again review the condition of the activity. Upon a vote of two-thirds of the members present Class A recognition will be withdrawn from the activity in question.

## ARTICLE X <br> Sub-Committees

SECTION 1. There shall be three classes of sub-committees of the Institute Committee: standing committees, special committees, and temporary committees. All of these shall submit formal reports except that the president of the Institute Committee may authorize temporary committees to submit informal reports. Reports of committees shall be submitted to the Institute Committee at its second meeting after the subcommittee has performed its function. The Senior Week Committee shall submit its report at the third meeting of the Institute Committee the following school year.

SECTION 2. Sub-Committees shall function as herein provided:
(a) Standing Committees, with the exception of the Field Day, Junior Prom and Senior Week Committees, shall function throughout the entire year and carry out routine duties of the Institute Committee. The standing committes are:

1. Budget Committee
2. Elections Committee
3. Walker Memorial Committee
4. Field Day Committee
5. Junior Prom Committee
6. Senior Week Committee
7. Student-Faculty Committee
(b) Special committees, which function every year, may carry out certain details of the business of the Institute Committee. There are at present four of these committees: the All-Tech Smoker Committee, the Senior Ring Committee, and the Freshman Rules Committee.
(c) Temporary committees, which are appointed from time to time shall perform such duties as the Institute Committee specifies.

## ARTICLE XI

Amendments
Changes in these By-Laws may be made by a vote of two-thirds of the members present at any meeting, providing that three days' notice of the proposed change has been given to all members of the Committee.

## ARTICLE XII

## Suspension

Suspension of these by-laws for the consideration of a question may be permitted by a three-quarters vote. The agenda may not be suspended for the consideration of a dance budget.

## BUDGET COMMITTEE

## ARTICLE I

The name of this Committee shall be The Budget Committee.

## ARTICLE II

The purpose of this Committee shall be to regulate the expenditures of all money received through the undergraduate dues, and to collect and permanently file financial reports of undergraduate activities as stated in Article IV, Section 5.

## ARTICLE III

SECTION 1. This Committee shall consist of a Chairman, who shall be the ex-officio Treasurer of the Institute Committee, and two other members chosen from the Junior Class, and shall further consist of the Bursar of the Institute in an advisory capacity.

SECTION 2. The Chairman shall be a senior elected by the Executive Committee of the Institute Committee subject to the ratification of the Institute Committee. The election of the Chairman must be made at such time to enable him to take his seat on the Institute Committee by the second meeting in February as specified in Article III, Section 3 of the By-Laws. The two junior members of the Budget Committee shall be elected by the Executive Committee of the Institute Committee. Both Junior Members shall be elected
subject to the ratification of the Institute Committee before the end of the second term of the school year.

## ARTICLE IV

The duties of the Budget Committee shall be as follows:

1. It shall, at the third regular meeting of the Institute Committee in the fall term, present a budget covering the expenditures of the Institute Committee and of all its sub-committees.
2. It shall receive a budget at least two weeks before all expenditures from undergraduate organizations receiving money from the Undergraduate Dues.
3. It shall investigate all proposed expenditures of any undergraduate organization receiving money from the Undergraduate Dues, and approve or disapprove of this expenditure as it sees fit. No money from the Undergraduate Dues shall be spent by undergraduates until such expenditures have been approved by the Budget Committee. The Chairman of the Budget Committee shall pay no bill that has not been authorized by the Chairman of the Committee contracting the bill. A three-quarter vote of the Institute Committee shall be required for the approval of any dance budget over $\$ 1,000$ which has been approved by the Budget Committee.
4. It shall not allow the allocation of funds in any one year to any undergraduate activity in excess of two-thirds of that activity's expenses for the year in question.
5. To receive and permanently file financial reports of Group A and B activities at the end of the fiscal year of each, such annual reports to be received not later than the second meeting of the Institute Committee following the close of the fiscal year of each activity. The form of these reports is to be specified by the Chairman of the Budget Committee. If an auditor's report is made for an activity by a certified public accountant, the Budget Committee shall receive a copy of that report in place of the treasurer's report. A fine of five dollars ( $\$ 5$ ) shall be imposed for each late report.
6. To receive and permanently file monthly operating statements and balance sheets from the Musical Clubs, TCA, Technique, T.E.N., The Tech, Voo Doo, 5:15 Club and Nautical Association. The form of these statements is to be specified by the Chairman of the Budget Committee. A fine of one dollar (\$1) shall be imposed for each report filed later than the fifteenth of the month following that for which it is compiled.
7. The annual dues for each organization coming under the jurisdiction of the Budget Committee shall be one dollar ( $\$ 1$ ) payable January first, except for those organizations financed by the Undergraduate Dues which shall pay no dues to the Budget Committee. A fine of five dollars ( $\$ 5$ ) shall be imposed for late payment of dues.
8. If any Class A activity shall become insolvent it shall be the duty of the Budget Committee Chairman to bring the activity up for a vote of confidence by the Institute Committee. A negative vote shall remove Class A recognition. Solvency shall be defined here as an excess of assets over liabilities as determined by a monthly or yearly statement. A trust fund or reserve fund may be included as an asset.
9. For the purpose of defining the groups of activities mentioned in Section 5, such grouping shall be as follows:

## Undergraduate Activities

CLASS A

The Institute Committee
The Four Classes
Combined Musical Clubs
Dormitory Committee
5:15 Club
Interfraternity Conference
MITAA
Debating Society
Agenda
Alpha Chi Sigma
American Institute of Chemical Hindustan Association Eng.
American Institute of Electrical Institute of Aeronautical Science Eng.
American Institute of Mining Eng. and Metallurgy
American Society of Civil Eng.
American Society of Mechanical Eng.
Architectural Society
Ass'n of General Contractors of America
Association of Women Students Rocket Research Society
Beaver Key Society Society of Automotive Engineers
Boat Club
Catholic Club
Chinese Students Club
Christian Science Organization
Dorclan
Nautical Association
Technology Christian Association
Technique
Tech Engineering News
The Tech
Voo Doo
Combined Professional Societies
CLASS B
Dramashop
Gridiron
Hillel Society
Intervarsity Christian Fellowship
Latin American Club
M.I.T. East and West Association
M.I.T. Outing Club

Mathematics Society
Naval Architectural Society
Osiris
Physics Society
Quadrangle Club

Tau Beta Pi
Tech International Club
Tech Swim Club
Track Club
Unity Club

WAR
Aeronautical Engineering Society Hexalpha
Alpha Phi Omega Propeller Club
Army Ordnance Association Radio Society
Benchmark
Camera Club
Chemical Society
Chi Epsilon
Eta Kappa Nu

Scabbard \& Blade Society
Sedgewick Biological Society
Society of American Military Eng. Tech DeMolay Club
II-A Society

## ARTICLE V

SECTION 1. The Budget Committee is empowered to levy a fine of from five to ten dollars against any organization contracting for expenditures of the Undergraduate Dues previous to the approval of such expenditures by the Budget Committee.

SECTION 2. Such fines shall be paid for with funds other than those received from the Undergraduate dues.

SECTION 3. Notification of such fines shall be sent to each member of the Executive Committee of the organization fined.

SECTION 4. The Chairman of the Budget Committee is empowered at his discretion to make no expenditures from the Undergraduate Dues in favor of the organization fined until such fine has been fully paid.

## ARTICLE VI

Changes in these regulations may be made by two-thirds vote of the members present at any meeting of the Institute Committee.

## ELECTIONS COMMITTEE

## ARTICLE I <br> Name

The name of this committee shall be The Elections Committee.

## ARTICLE II <br> Purpose

The purpose of this committee shall be to conduct elections as hereinafter provided.

## ARTICLE III <br> Membership

SECTION 1. This committee shall consist of a chairman, three associate members, and ten assistant members. The chairman shall be a member of the incoming Senior Class at the time of his appointment to office, and shall be a member ex officio of The Institute Committee throughout his term of office.

One of the associate members shall be the Secretary of the Institute Committee, who shall be a member ex officio of The Elections Committee. The other two associate members shall be members-atlarge of the incoming Senior Class at the time of their appointment.

The remainder of the committee shall consist of four assistants who are members of the Junior Class, and six assistant members to be chosen from the Sophomore Class.

SECTION 2. The chairman of The Elections Committee shall be elected annually by The Executive Committee of The Institute Committee, subject to the ratification of The Institute Committee, at the second meeting of that committee in February. He shall be selected from among the four Junior members of the Elections Committee who are already Junior assistants at the time (of his election).

The new chairman of the committee shall assume office immediately following his election, and shall become a member of the Institute Committee at its next regular meeting. He shall remain in office for one year, from the date of his election until his successor has been elected and approved at the second meeting of the Institute Committee in the following February, at which time he shall turn over his duties to the chairman. The ex-chairman will continue to be a member of the Elections Committee in an advisory capacity only until he graduates from the Institute in June, but will turn his duties, as well as his seat on the Institute Committee, over to the new chairman at the second meeting of that Committee in February.

SECTION 3. If a new Secretary of the Institute Committee is elected by The Institute Committee in February, the new Secretary will automatically become an associate member ex officio of The Elections Committee, and the retiring Secretary will no longer be a member of The Elections Committee. The Secretary of the Institute Committee shall remain a member of the Elections Committee for as long, but only as long, as he is the Secretary of The Institute Committee.

The other two Associate members of The Elections Committee shall be appointed by the Retiring Chairman of The Elections Committee, subject to the approval of The Executive Committee of The Institute Committee and to the ratification of The Institute Committee, at the second meeting of that committee in February. They shall be chosen from among the three remaining Junior members of

The Elections Committee who are already Junior assistants at the time of this election, after the new chairman of The Elections Committee has been elected. These two Associates shall continue to serve as active members of The Elections Committee for a term of one year, until their successors are appointed to replace them, after which they will serve The Elections Committee in an advisory capacity until their graduation from the Institute in June. The Junior who is not appointed as an associate or as chairman of the committee will be dropped at this time.

SECTION 4. The Four Junior Assistant members of The Elections Committee shall be selected by the (new) Chairman of The Elections Committee, subject to the approval of The Executive Committee of The Institute Committee and to the ratification of The Institute Committee, at the first meeting of that Committee following class elections in April. They shall be chosen from among the six Sophomore members of The Elections Committee who are already Sophomore Assistants at the time of this election. These four Junior Assistants shall continue to serve as assistant members of The Elections Committee until the second meeting of The Institute Committee in the following February, at which time one of them will be elected as chairman of The Elections Committee, two will be appointed as associate members of the committee, and one will be dropped from the committee. The two Sophomore assistant members of the committee who are not appointed as Junior Assistant members will be dropped from the Committee at this time.

SECTION 5. The Chairman of The Elections Committee shall hold a competition for Sophomore members of the committee, during the elections of members to the Senior Week and Junior Prom Committees in November. After these elections are complete, and the votes have been counted, the Junior members of The Elections Committee shall appoint six of the Sophomores to be Sophomore Assistant members of The Elections Committee, subject to the approval of the Chairman of The Elections Committee and to the ratification of The Institute Committee at the first meeting of that committee following the Senior Week and Junior Prom Committee elections.

SECTION 6. All extra appointments to the committee, which may be necessary to fill any vacancies that may occur in the membership of the committee, should be made by the chairman within a month after the vacancy first occurs. Such appointments will also be subject to the approval of The Executive Committee of The Institute Committee, and to the ratification of The Institute Committee at the following meeting of that committee.

## ARTICLE IV <br> Duties

The duties of The Elections Committee shall be to conduct all elections and such other popular votes among The Undergraduate Association as may be necessary or expedient, in accordance with the rules hereinafter stated:

SECTION 1. The Elections Committee shall conduct the following regular annual elections:

1. Class officers and class member-at-large representatives to The Institute Committee.
2. Representatives to the Freshman Council.
3. The Junior Prom Committee.
4. The Senior Week Committee.
5. The Senior Class Day Marshals.
6. New members to The Beaver Key Society.

SECTION 2. The Elections Committee shall also conduct all popular votes that may be required on any referendum to the Undergraduate Association or on the initiative of The Undergraduate Association as directed by The Institute Committee. This will include the general vote of The Undergraduate Association, which are essential on any proposed amendment to the Student Constitution, as called for by The Institute Committee.

SECTION 3. All elections shall be held on the Wednesday immediately preceding the Thursday on which The Institute Committee is to hold one of its regular meetings. The date of the election and the date upon which the nominations are due shall be publicly announced two weeks before the day of the election. Voting regulations, the date and the place of the election, and a list of the nominees shall be printed in The TECH on the Friday preceding the day of election.

SECTION 4. The Elections Committee shall provide one standard printed nomination blank to each candidate for election. This blank shall provide space for thirty-five names. Nominations on any other forms shall not be accepted. Nomination papers must be deposited in a locked box provided for the purpose between the hours of $9 \mathrm{a} . \mathrm{m}$. on the Wednesday and $1 \mathrm{p} . \mathrm{m}$. on the Thursday immediately preceding the election or else they will not be accepted.

SECTION 5. Nomination blanks shall be submitted in the following form:

We, the undersigned members of the Class of
do hereby nominate for of our class.
(Sponsor's signatures)
I hereby accept the nomination.
(Signature of the nominee. $\qquad$
SECTION 6.

1. A person is eligible to be nominated by members of his own class only.
2. A person is eligible to be nominated to office in his own class only.
3. No individual may sign the nomination blank of more than one candidate for any one office.
4. No individual may sign the nomination blank of any candidate not in his class.
5. No individual may sign any one nomination blank more than once.
6. Infringement of these regulations on the part of any individual shall result in the loss of voting privileges.
SECTION 7. Immediately following the deadline set for the acceptance of nomination papers, The Elections Committee shall assemble the nomination papers and check the eligibility of all the nominees and of all the sponsors appearing on each paper, as specified by the eligibility rules set forth above.

The chairman of The Elections Committee shall then verify, personally, the acceptance of the nomination by each of the nominees. No nomination shall be entered on any ballot unless both the nominee and his sponsors have complied with the eligibility rules governing nominations, nor until the willingness of the nominee to accept the nomination has been confirmed.

The chairman of The Elections Committee shall keep the nomi-
nation papers of all nominees for one month after elections, and then destroy them.

SECTION 8. Nominees are required to submit to The Elections Committee the following material along with their nomination:

1. Cumulative rating.
2. Activity record at M.I.T. (in tabular form).
3. A full face photograph of the standard dimensions.
$4 \times 5$ inches.
4. A two-hundred (approximately) word statement putting forth their plans and policies.
The residential group shall not be stated.
SECTION 9. The Chairman of The Elections Committee shall have the required number of ballots in his possession at least twentyfour hours before the opening of the poll. The ballots required for mailing shall be in the possession of the chairman by three p.m. on the Saturday preceding the day of election.

SECTION 10. In the annual spring elections, the ballots of each class shall be a separate color.

SECTION 11. The polls at every election shall be open from 8.30 a. m. until 5.20 p. m.

SECTION 12. All forms of electioneering at the polls shall be prohibited; and no recognized undergraduate activity shall engage in any form of electioneering.

SECTION 13. All class elections, Junior Prom Committee, Senior Week Committee, and Senior Class Marshals elections shall be by the preferential system of voting.

SECTION 14. Elections of representatives to The Freshman Council shall be held on the Wednesday of the third week of the first term, and again on the Wednesday of the second week of the second term.

Nominations shall be held two days in advance. Further nominations will be in order at the time of the elections.

Nominations shall be from the floor, no second or sponsors being required. Elections shall be by show of hands, eyes covered.

One representative is to be elected to the Council from each of the Freshman sections. The number of nominations may be unlimited. The man receiving the second highest number of votes in each section shall be named the alternate representative to the Council from that section. A majority of the members of the section must be present at the election to hold an election.

Each representative elected to the Council shall serve in that capacity for one term only.

SECTION 15. The annual Spring Class elections shall be held on the first, second, or third Wednesday in April. The Senior Class Day Marshals and the new members of The Beaver Key Society shall be elected at the same time as the class officers and the class mem-ber-at-large representatives to The Institute Committee. Three candidates are to be elected as Senior Class Day Marshals.

SECTION 16. The elections of members to The Junior Prom Committee and to The Senior Week Committee shall be held on the first Wednesday of November. Five candidates are to be elected to The Junior Prom Committee, and ten candidates are to be elected to The Senior Week Committee. The officers of the Senior Week Committee are to be chosen by the members of the committee after their election to the committee.

SECTION 16 (a). For the duration of the war the Elections Committee shall determine the time of all class elections. Junior Prom Committee and Senior Week Committee elections and the elections of the Senior Class Marshals and the Freshman Council, with the approval of the Institute Committee.

SECTION 17. For all class elections there shall be the signatures of twenty-five sponsors on the nomination papers, and no individual may sign the nomination blank of more than one candidate for any one office.

The nominations for Senior Class Day Marshals shall require the signatures of twenty-five sponsors on the nomination papers, and no individual may sign the nomination blank of more than three candidates.

For the election of The Junior Prom Committee, there shall be the signatures of twenty-five sponsors on the nomination papers, and no individual may sign the nomination blank of more than five candidates.

For the election of the Senior Week Committee, there shall be the signatures of twenty-five sponsors on the nomination papers, and no individual may sign the nomination blank of more than ten candidates.

SECTION 18. In the annual class election, there shall be nominations for the offices of President, Secretary-Treasurer, and Member of the Institute Committee. There shall be no nominations for the office of Vice-President, but the second man to receive a majority in the balloting for President shall be named Vice-President.

SECTION 19. All persons shall vote only with the class to which they are assigned by the Registrar, unless a written petition is sent to the Chairman of The Elections Committee requesting the right to vote with a class of which that person was previously a member. Evidence of the acceptance of such petition is given by permitting the person to vote in accordance with his desire as expressed in the petition. He then automatically becomes a member of the class with which he votes and may vote in no other class for the remainder of the school year.

SECTION 20. The voting for all elections shall be done in rooms designated by the Committee. One shall be the main lobby.

Voting by mail shall be allowed for all students in courses which require their attendance at places other than M.I.T. at the time of the elections. Ballots for this voting shall be sent by the Chairman of the Elections Committee by six p. m. on the Saturday preceding the day of elections to those men who have sent a written request to the Chairman of The Elections Committee for the same before that time. All such ballots must be returned to the Chairman of the Elections Committee by five-thirty p. m. on the day of elections. All ballots received after this hour shall be void.

There shall be no voting by proxy.
There shall be a locked ballot box, the key of which shall be held by the Chairman of The Elections Committee.

The voter shall on entrance receive his ballot which he shall fill out at a booth or screened table provided for this purpose. There shall be a space set aside for the voting booth. No one except those in charge of elections shall be admitted to this space unless there is an empty booth. The voter on exit shall separate the two portions of
his ballot, dropping the upper portion into ballot box, and giving the lower portion containing his signature to the attendant at the exit.

SECTION 21. There shall be no counting of votes until after the close of the polls.

The counting shall be done by all members of The Elections Committee who are not nominees in the election. In the annual spring elections the counting shall be done by The Elections Committee and such extra men as the Chairman shall deem necessary to complete the task within a reasonable time. None of the men counting votes shall be nominees in the election being counted. In case one of the Committee members is a nominee in an election, the Chairman shall be empowered to fill his place temporarily.

All men counting votes shall be on their honor not to divulge or intimate the results to any one regardless of his position until formal announcement of the results has been made to The Institute Committee except that the Chairman shall transmit the complete results of the elections to the President of the Senior Class as soon as the results are determined.

SECTION 22. The Chairman of the Elections Committee shall turn over to the Secretary of The Institute Committee all ballots after the results of an election have been announced and the votes racounted as provided in Article IV, Section 21. The Secretary of The Institute Committee shall keep them for one month and then destroy them. The stubs shall be kept by the Chairman of the Elections Committee for one month.

SECTION 23. The Chairman of The Elections Committee shall make a formal announcement of the results of all elections at the meeting of The Institute Committee on the day following the day of elections, except that in the case of protest, this announcement shall not be made until the elections have been adjudged legal.

SECTION 24. Any protests shall be presented to The Executive Committee which shall meet prior to the meeting of The Institute Committee on the day following the day of elections.

SECTION 25. The Chairman of The Elections Committee may make such additional rulings as shall not conflict with any part of the Constitution of the Undergraduate Association or its accompanying By-Laws.

SECTION 26. Candidates for office shall not be permitted to take active part in the work of The Elections Committee. Voting
SECTION 27. The voter numbers his candidates in the order of his preference. He may number as many as he likes.

## Counting by Preferential System

Provide a tally sheet containing the names of the candidates on the left, with columns to the right of the names.

Sort the ballots into piles in accordance with the first choice indicated on them.

Count the number in each pile, and enter the figures on the tally sheet in the first column against the candidate's name.

If, at this stage, one candidate has a majority of the total votes cast, he is elected.

If this count gives a majority to no one candidate, proceed as follows:

Drop from the list the man with the least number of votes. Distribute his ballots among the remaining candidates in accordance
with the second choice indicated on each ballot. Enter these total figures in the second column.

If there is still no choice, drop the candidate who stands last on the count in Column 2, and proceed as before. Continue until someone has a majority.

If two candidates are to be elected, find the man who has the highest count by the method just indicated. Then eliminate his votes, and start again with the first choice.

SECTION 20. Three candidates are to be elected as Class Day Marshals, and ten candidates are to be elected to the Senior Week Committee.

SECTION 21. The officers of the Senior Week Committee are to be chosen by the members of the Committee after their election to it. ARTICLE V
Changes in these regulations may be made by a two-thirds vote of the members present at any meeting of the Institute Committee.

## FIELD DAY COMMITTEE

## ARTICLE I

The name of this Committee shall be the Field Day Committee.

## ARTICLE II

This committee shall consist of the Executive Committee of the Institute Committee, the Presidents of the Junior and Sophomore Classes and the President of the MITAA, and the Manager of Field Day. The Chairman of this committee shall be the President of the Institute Committee.

## ARTICLE III

This committee shall act with power on all questions relating to Field Day except athletic events, and shall supervise the conduct of the affairs (including all meetings of the two lower classes) from the opening of the Institute in the fall until Freshman elections.

## ARTICLE IV

The committee shall hold its first meeting in May of the school year preceding the one in which it has jurisdiction over Field Day. The previous Field Day Manager shall attend this meeting.

## ARTICLE V

The following resolution was adopted by the Institute Committee in regard to Field Day:
"That in order to protect the good name of the undergraduate government, there shall be no parades or demonstration of any character off the Institute grounds, and that the President of the Institute be requested to support this decision by giving due notice that offenders render themselves liable to expulsion, and that the offenders shall be personally liable for any damages."

## ARTICLE VI

The responsibility of running the dance, customarily held on the night of Field Day, and known as the Field Day Dance, shall be granted by the Field Day Committee to that organization which one month prior to Field Day has formally made a request to the Secretary of the Field Day Committee for the responsibility. In case the request is made by more than one organization the Field Day Committee shall decide who is to assume the responsibility.

## SENIOR WEEK COMMITTEE

## ARTICLE I

The name of this committee shall be the Senior Week Committee.
ARTICLE II
The purpose of this committee shall be to arrange and conduct Senior Week.

## ARTICLE III

SECTION 1. This committee shall consist of ten seniors elected by the Senior Class at a regular election conducted by the Elections Committee before the end of the fifth week of the Second Term. In addition to these members there shall be the following five members: the President, Secretary, and the Institute Committee representatives of the Senior Class; the preceding year's January member; and a new Junior member chosen as explained in Article IV, Section 1.

SECTION 2. This committee shall be a sub-committee of the Institute Committee and shall be responsible to it.

## ARTICLE IV

SECTION 1. The newly elected Senior Week Committee shall elect a Junior Member to the committee at the first meeting, subject to the approval of the Institute Committee.

SECTION 2. The Junior Member shall further keep a record of the order of arrangement of all events, the attendance at each, and all printed material pertinent to Senior Week.

SECTION 4. The Junior Member shall in the following fall, after all bills have been paid and the $\$ 300$ returned to the class treasury, divide the remaining assets amongst the members of the Committee and return it to them.

SECTION 5. The Junior Member shall submit a formal report at the third meeting of the Institute Committee in the fall. This report shall contain all budgets, incomes and expense records and a profit and loss statement. It shall also contain a detailed account of each function, minutes of all meetings of the Senior Week Committee and Executive Committee of the Senior Week Committee as well as copies of all the literature, announcements, tickets, etc., having to do with Senior Week.

SECTION 6. The Junior Member in his senior year shall automatically be a member of the Executive Committee of the Senior Week Committee, as well as in his junior year.

## ARTICLE V

SECTION 1. The Executive Committee shall consist of the Chairman, Secretary, Member-at-Large; President of the Senior Class, last year's Junior Member and this year's Junior Member shall be ex-officio members.

SECTION 2. If the Junior Member of last year is elected Chairman or Secretary, another member-at-large shall be elected to the Executive Committee.

## ARTICLE VI

SECTION 1. The President of Senior Class shall preside at the first meeting of the Senior Week Committee to be held within two weeks after the approval of the election.

SECTION 2. At this meeting a chairman, a secretary, and a
member-at-large shall be elected by those present from among those present.

## ARTICLE VII

The Committee shall attend all functions of Senior Week free of charge.

## ARTICLE VIII

SECTION 1. The committee shall borrow an amount not exceeding $\$ 300.00$ from the Class Treasury to be used as an operating fund.

SECTION 2. All members of the committee except the Junior Member, shall share evenly amongst themselves all debts remaining after the $\$ 300.00$ borrowed from the Class Treasury has been used.

## STUDENT-FACULTY COMMITTEE

## ARTICLE I

The name of the committee shall be the Student-Faculty Committee.

## ARTICLE II

This committee shall consist of three seniors, three juniors, two sophomores, and one second-term freshman, who shall be chosen by the Executive Committee, subject to the approval of the Institute Committee, and seven Faculty members appointed by the President of the Institute.

## ARTICLE III

This committee shall consider such constructive criticism on methods of instruction in individual subjects or courses as may be presented from time to time, promote cooperative relations between students and instructing staff, and make such suggestions to the proper authorities as may occur to it for the betterment of student welfare.

## THE WALKER MEMORIAL COMMITTEE

## ARTICLE I

The name of this committee shall be the Walker Memorial Committee.

## ARTICLE II

SECTION 1. The purpose of this committee shall be to coordinate undergraduate extra-curricular activities of a non-athletic nature, and to administer all Institute facilities under its jurisdiction to the best interests of the Undergraduate Association.

## ARTICLE III

SECTION 1. This committee shall consist of a Chairman and nine (9) associates. The Chairman shall be a member of the Senior Class and ex-officio a member of the Institute Committee and Executive Committee of the Institute Committee. The remainder of the committee shall consist of three (3) members of the Junior Class and six (6) of the Sophomore Class.

SECTION 2. Before the second meeting in February the Executive Committee of the Institute Committee shall elect for the
coming year subject to the ratification of the Institute Committee, a chairman of the Walker Memorial committee. Three (3) members of the Sophomore Class who become Junior Members of the Walker Memorial Committee shall be similarly elected before the end of the spring term.

SECTION 3. The Chairman of the Walker Memorial Committee shall hold a competition, normally at the beginning of the fall term for sophomore members for the Committee, at the end of which he shall appoint six (6) sophomores subject to the approval of the Institute Committee.

## ARTICLE IV

The powers of the Walker Memorial Committee shall be as follows:

1. To administer the student facilities of the Walker Memorial Building and to enforce such house rules as are deemed necessary for its proper administration.
2. To regulate all undergraduate demonstrations and meetings conducted in the Institute buildings.
3. To require the complete plans for any social function in Walker Memorial to be submitted in writing one (1) week previous to date of function. This report must be signed by a responsible member of the organization sponsoring the function. Failure to comply with these regulations shall incur a fine of five dollars ( $\$ 5$ ).
4. To levy a fine of one dollar (\$1) on any organization which holds a meeting in the Walker Memorial Building unauthorized by the Walker Memorial Committee, and to refuse to approve the application for reservation of any room in Walker Memorial until this fine is paid.
5. To appoint any sub-committees that seem advisable, subject to the ratification of the Institute Committee.

## ARTICLE V

The duties of the Walker Memorial Committee shall be as follows:

1. To procure from all organizations a list of coming events and to prevent conflicts as far as possible.
2. To have published in The Tech a schedule of undergraduate events.
3. To have at least one member of the Committee present at each dance held in the building and at any other function where it seems advisable.
4. To see that the activities' offices are kept clean and in repair, and that any improvements or changes desired by the organizations are made through the Walker Memorial Committee.
5. To enforce all rules relative to the use of the Walker Memorial Building.
6. To co-operate with the Dean, the Superintendent of Buildings and Power, and the Superintendent of Dining Service in every way possible for the proper administration of the Walker Memorial Building.
7. To regulate all undergraduate demonstrations.
8. To submit to the Institute Committee any applications from organizations not connected with the Institute to conduct drives and to enforce the decisions of the Institute Committee relative thereto.
9. To be responsible for the appearance and use of all bulletin boards assigned to the use of the undergraduate body, and to prevent
the use of these bulletin boards for commercial interests not connected with the Institute.
10. To assign all rooms of the Walker Memorial Building for the ase of undergraduate activities.
11. To maintain a record of the officers of all activities, and to regulate and enforce the Points System.
12. To notify the high or preparatory school of any man upon his election or appointment to an office of importance in undergraduate activities.
13. To assure the responsibilities of collecting and filing reports of all sub-committees of the Institute Committee. It shall also keep on file up-to-date copies of all recognized activities' constitutions.
14. To post on the bulletin board in Building 7 a list of undergraduate events.

## ARTICLE VI

1. The Walker Memorial Committee shall regulate and enforce the Points System in accordance with the regulations herein set forth, and in compliance with the directions and wishes of the Executive Committee of the Institute Committee.
2. The purpose of the Points System shall be; 1) to encourage participation in activities by affording recognition for endeavor in this line. To this end lists of high-point men shall be published in THE TECH from time to time. 2) to protect activities from having an executive whose other interests and duties demand too much time to allow him to competently hold his office, and 3) to curtail and limit in some measure an individual in the number of responsibilities he may accept in the effort to spread this responsibility, and prevent any one man from being imposed upon in demands on his time which he may not feel free to refuse.
3. The Walker Memorial Committee shall assign to all undergraduate activity positions and to all sports a set number of points for participation. Before the creation of new positions these shall be referred to the Walker Memorial Committee for an assignment of points, which shall subsequently be approved by the Executive Committee of the Institute Committee.
4. Point changes may only be made operative after the beginning of any individual's incumbency when they do not cause that individual to be over-pointed.
5. No person may resign from an office given him by popular class vote election in order to reduce his points to allow him to accept a subsequent position.
6. The Walker Memorial Committee shall at all times keep a current file and record of all persons competing in activities, and shall keep constant.track of the points accrued to each man. In all cases where a man's election, appointment or acceptance of a position causes him to exceed his specified limit of points, that election, appointment or position shall automatically become void.
7. No senior, junior, sophomore or freshman shall carry a total of more than fifteen (15) points, except that members of varsity teams may carry five (5) additional points.

## ARTICLE VII

Changes in these regulations may be made by a two-thirds vote of the members present at any meeting of the Institute Committee.

## JUNIOR PROM COMMITTEE

ARTICLE I
The name of this committee shall be the Junior Prom Committee.
ARTICLE II
The purpose of this committee shall be to plan and carry out the arrangements for the Junior Prom Weekend in the best interests of the Junior Class.

## ARTICLE III

The members of this committee shall consist of the President and the Secretary-Treasurer of the Junior Class and five other members of the Junior Class as shall be elected in accordance with the By-Laws of the Elections Committee. The President of the Junior Class shall be the Chairman. Vacancies occuring within the committee shall be filled by the committee subject to the approval of the Institute Committee. It is suggested that any vacancies be filled by the unsuccessful candidates in the election.

## ARTICLE IV

The Chairman of the Committee must present a budget of expenses to the Budget Committee for approval and supervision not less than four weeks before the date of the dance. He shall submit a formal report to the Institute Committee at the second meeting after the dance.

## ARTICLE V

A three-quarter vote of the Institute Committee shall be required for the approval of any dance budget over $\$ 1000$ which has been approved by the Budget Committee.

## ARTICLE VI

No member of the Junior Prom Committee may make a profit from the dance as individuals. Fifty per cent of any profit from the Junior Prom shall be turned over to the class treasury. The remainder shall be placed in a Junior Prom reserve fund to be administered by the Budget Committee.

ARTICLE VII
Changes in these regulations may be made by a two-thirds vote of the members present at any meeting of the Institute Committee.

## ARTICLE VIII

A bond of $\$ 10$ shall be required by each member of the Junior Prom Committee.

## SENIOR RING COMMITTEE

## ARTICLE I

The name of this committee shall be the Senior Ring Committee.
ARTICLE II
The purpose of this committee shall be to arrange for the purchase of Senior Rings.

ARTICLE III
The committee shall consist of a chairman and any other members as shall be deemed necessary.

The chairman shall be elected by his class at regular class elections. Additional members may be appointed by the chairman.

All members must be approved by the Institute Committee. Only second term Juniors will be permitted to place orders for Senior Rings and only Seniors will be permitted to wear the ring.

## ARTICLE IV

Changes in these regulations may be made by a two-thirds vote of the members present at any meeting of the Institute Committee.

## UNIFORM CLASS CONSTITUTION

## ARTICLE I

The organization shall be known as the Class of of the Massachusetts Institute of Technology.

## ARTICLE II

SECTION 1. All persons who on entrance are classified by the Registrar of MIT as belonging to this class are members of this organization.

SECTION 2. If the Registrar transfers any members of this organization to another class, he may, nevertheless, continue to be a member of this organization by having a petition to vote with this organization accepted by the Elections Committee of the Institute Committee.

SECTION 3. All persons transferred into this class by the Registrar shall be members of this organization, unless they have petitioned in accordance with Section 2.

## ARTICLE III

SECTION 1. Previous to the election of the Freshman Council, the Freshman Class shall be under the supervision of the Field Day Committee.

## ARTICLE IV

SECTION 1. The officers of the class, with the exception of the Freshman Class, shall consist of a President, Vice-President, Secre-tary-Treasurer, and two delegates to the Institute Committee, all of whom shall constitute the Executive Committee of the class. These officers shall serve until the next general election of officers by the class.

SECTION 2. The Freshman Class shall be organized in accordance with Article V A.

## ARTICLE V

SECTION 1. The President shall preside over all meetings of the class, the Executive Committee, and shall be an ex-officio member of all committees in the class. He shall countersign all requisitions issued by the class.

SECTION 2. The Vice-President shall assume the duties of President in case of the latter's disability, absence or resignation.

SECTION 3. The Secretary-Treasurer of the class shall be Secretary of the Executive Committee and shall give notice of all meetings and must be responsible for all records of the class. He shall be responsible for the disbursement of all moneys of the class. He shall deposit all money of the class with the Treasurer of the Institute Committee and shall sign all requisitions for the expenditures of such
moneys. He shall prepare a budget for all expenditures of the class, which shall be submitted to the Budget Committee after it has been approved by the Executive Committee of the class. He shall keep accounts of moneys received or due from the undergraduate dues separate from those received from other sources. He shall observe the regulations of the Budget Committee.

SECTION 4. The Executive Committee shall have the power to appoint such committees as it deems necessary.

SECTION 5. The Executive Committee shall have the power to fill vacancies occurring within itself, subject to the ratification of the Institute Committee.

## ARTICLE V A

SECTION 1. The Freshman Council shall consist of one representative from each section of the class. The Vice-President of the Junior Class shall be chairman of the Freshman Council. There shall be no Executive Committee.

SECTION 2. The purpose of the Freshman Council shall be to handle all appropriate matters in connection with Field Day, to assist in the placement of freshmen in student activities, and to attend to other class business. The Council shall meet at least once a month.

SECTION 3. The Vice-President of the Junior Class shall preside over all meetings of the Freshman Class and the Council, and shall be ex-officio member of all committees in the class previous to the election of regular officers in April. He shall countersign all requisitions issued by the class, and shall submit monthly reports of the activities of the class to the Institute Committee.

SECTION 4. At its second meeting in the first term and at its meeting in the second term, the Council shall elect three delegates to the Institute Committee, one of whom shall act as Secretary-Treasurer of the Council.

SECTION 5. The duties of the Secretary-Treasurer shall be as prescribed in Article V, Section 3.

## ARTICLE VI

SECTION 1. Class meetings shall be called by the President, Executive Committee, the Chairman of the Freshman Council, or by the written request to the President signed by thirty (30) members of the class.

SECTION 2. All notices of such meetings shall be posted on the undergraduate bulletin boards.

## ARTICLE VII

SECTION 1. The election of the members of the Executive Committee shall be by the Preferential System of voting and shall be conducted in accordance with the rules of the Elections Committee.

SECTION 2. The members of the Freshman Council shall be elected during the third week of the first term, and again during the second week of the second term. There shall be one man and an alternate elected from each section under the auspices of the Elections Committee.

## ARTICLE VIII

In case of negligence of duties or misconduct thereof, any member of the Executive Committee may be deposed from office by a twothirds vote of the Executive Committee, and ratified by a majority vote of the Institute Committee.

## ARTICLE IX

In case of dispute, the correct interpretation of this Constitution shall be determined by the Institute Committee.

## ARTICLE X

This Constitution will automatically become the constitution of every class upon its registration at the Institute.

## ARTTCLE XI

A two-thirds vote of the Executive Committee shall be necessary to amend this Constitution, subject to the approval of the Institute Committee.

ARTICLE XII
The following regulations shall apply to all class dances with the exception of the Junior Prom or a function held in connection with Senior Week:

SECTION 1. The members of the Executive Committee shall automatically be members of the class Dance Committee. They may if they desire, appoint additional members to the Dance Committee, subject to the approval of the Institute Committee.

SECTION 2. The chairman of the Dance Committee shall be chosen by the members of the Dance Committee.

SECTION 3. The chairman of the Dance Committee must present a budget of expenses to the Budget Committee for approval and supervision not less than two weeks before the date of the dance. He shall also present to the Budget Committee a complete financial report not later than two weeks after the date of the dance.

SECTION 4. No members of the Dance Committee may make a profit from the dance as individuals. All profits shall be turned over to the class treasury. If a class dance is operated under the above regulations, any losses which it sustains may be withdrawn from the class fund.

## ARTICLE XIII

SECTION 1. Fifty per cent ( $50 \%$ ) of any profit from the Junior Prom shall be turned over to the class treasury. The remainder shall be placed in a Junior Prom reserve fund to be administered by the Budget Committee.


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## INDEX

Name Page Name Page
Alumni Association 82 Intervarsity Chr. Fell. ..... 56
Assoc. of Women Students .... 52 Junior Prom Committee ..... 39
Athletics 63 LaCrosse ..... 75
Basketball 72 Latin American House ..... 28
Baton Society 50 Lecture Series ..... 45
Book Service 46 Lenox Club ..... 28
Boys' Work 47 Libraries ..... 84
Budget Committee 39 Lockers ..... 8
Cabin 47 Map ..... er
Catholic Club 57 Mathematics Society ..... 54
Cheers 13 Medical Service ..... 9
Chinese Students' Club 55 Musical Clubs ..... 49
Christian Science Org. 57 Nautical Association ..... 49
Church Directory 86 Outing Club ..... 51
Const. of Activities 100 Physics Society ..... 55
Crew 74 Professional Society ..... 61
Cross Country 69 Radio Society ..... 59
Debating Society 58 Rocket Society ..... 53
Deposit Accounts 8 Room Numbering ..... 7
Dorms 29 School Supplies ..... 7
Dramashop 54 Skiing ..... 75
Elections Committee 38 Soccer ..... 75
Employment Bureau 45 Songs ..... 11
5:15 Club 32 Squash ..... 69
Fraternities 18 Student-Faculty Committee ..... 40
Fraternity List 22 Student House ..... 28
Frosh Camp 10 Swimming ..... 70
Golf 73 Tech Engineering News ..... 42
Grading System 14 Technique ..... 44
Graduate House 31 T. C. A. ..... 45
Hillel Foundation 56 Technology Tips ..... 7
Hindustan Association 56 Tennis ..... 75
History of Institute 78 The Tech ..... 41
Hobby Shop 53 Ticket Service ..... 46
Honorary Societies 60 Towel Service ..... 8
Housing Bureau 46 Track ..... 68
Information Sources 8 Voo Doo ..... 43
Institute Committee 36 Welcome from Dean ..... 6
I. F. C. 21 Welcome from President ..... 5
International Association 59 W. M. C. ..... 37

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