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# THE HANDBOOK

Vol. ~~XXXIII~~ 43

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THE  
HANDBOOK

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Vol. ~~XXXIII~~

1939

THE MASSACHUSETTS  
INSTITUTE OF  
TECHNOLOGY



*“Mens et Manus”*

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WALLACE M. ROSS  
General Secretary Technology  
Christian Association

*To*

WALLACE  
MASON  
ROSS

the 43rd volume of The Handbook is proudly dedicated on his 20th anniversary as General Secretary of the Technology Christian Association. Wallie's admirable efforts and tactful, pleasing ways are appreciated by all with whom he works.

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# CALENDAR FOR 1939-40

"The Tech" published every Tuesday and Friday  
September

- 13.....Entrance Examinations
- 22-25.....Freshman Camp
- 25.....Registration Day
- 25.....Combined Professional Society Sales
- 25.....American Student Union Membership Drive
- 25.....Mathematical Society Membership Drive
- 25.....All-Technology Smoker
- 26.....Meeting of the M. I. T. A. A.
- 28.....Institute Committee Meeting
- 28.....Technique Freshman Smoker
- 29.....Dormitory Freshman Dance

## October

- 3.....Meeting of the Advisory Council on Athletics
- 4-5.....Voo Doo Sales Days
- 5.....Institute Committee Meeting
- 5.....Freshman Rally
- 5.....Voo Doo Smoker
- 6.....Sophomore Rally
- 10.....Nominations for Freshman Council
- 10-11.....Tech Engineering News Sales Days
- 12.....Columbus Day (holiday)
- 13-14.....Freshman Council Elections
- 13.....Catholic Club Dance
- 19.....Institute Committee Meeting
- 20.....Sophomore Rally
- 24.....Freshman Rally
- 27.....Field Day
- 27.....Field Day Dance
- 30-31.....Senior Ring Sales
- 31.....Meeting of the M. I. T. A. A.
- 31-Nov. 4 Technology Christian Association Drive

## November

- 1-3.....Senior Ring Sales
- 2.....Junior Prom Committee Elections
- 2.....Institute Committee Meeting
- 7.....Meeting of the Advisory Council on Athletics
- 7-8.....Voo Doo Sales Days
- 11.....Armistice Day (Holiday)
- 14-15.....Tech Engineering News Sales Days

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*Tech. Coll. 1 Sept. '39*

## November

- 16.....Institute Committee Meeting
- 18.....Boat Club Dance
- 24.....Sophomore Dance
- 25.....Five Fifteen Club Dance
- 28.....Meeting of the M. I. T. A. A.
- 29.....Five-Fifteen Club Thanksgiving Eve  
Dance
- 30.....Thanksgiving Day (holiday)

## December

- 5.....Meeting of the Advisory Council on  
Athletics
- 6-7.....Voo Doo Sales Days
- 7.....Institute Committee Meeting
- 12-13.....Tech Engineering News Sales Days
- 15.....Dormitory Xmas Dance
- 19.....Meeting of the M. I. T. A. A.
- 21.....Institute Committee Meeting
- 24.....Christmas Vacation

## January

- 1.....Five-Fifteen Club New Year's Dance
- 2.....Meeting of the Advisory Council on  
Athletics
- 4.....Institute Committee Meeting
- 5.....Senior Dance
- 10-11.....Voo Doo Sales Days
- 12.....Catholic Club Charity Dance.
- 16-17.....Tech Engineering News Sales Days
- 18.....Institute Committee Meeting
- 20.....Last Exercises of the First Term
- 24-Feb. 3. Examination Period

## February

- 5.....Second Term Begins
- 6.....Meeting of the Advisory Council on  
Athletics
- 8.....Institute Committee Meeting
- 13.....Nominations for Freshman Council
- 13-14.....Tech Engineering News Sales Days
- 14-15.....Voo Doo Sales Days
- 16.....Dormitory Dinner Dance
- 16-17.....Freshman Council Elections
- 20.....Senior Week Elections
- 21.....Military Ball of the Scabbard and  
Blade
- 22.....Washington's Birthday (holiday)
- 27.....Meeting of the M. I. T. A. A.
- 29.....Institute Committee Meeting

## March

- 1.....Junior Prom
- 5.....Meeting of the Advisory Council on Athletics
- 6-7.....Voo Doo Sales Days
- 8-11.....Basketball Tournament (Hangar Gym)
- 12-13.....Tech Engineering News Sales Days
- 14.....Institute Committee Meeting
- 14-16.....Play and Dance of the Dramashop (Brattle Hall, Cambridge)
- 26.....Meeting of the M. I. T. A. A.
- 28.....Institute Committee Meeting
- 31.....Dormitory Spring Formal Dance

## April

- 2.....Meeting of the Advisory Council on Athletics
- 4-5.....Voo Doo Sales Days
- 9-10.....Tech Engineering News Sales Days
- 11.....Institute Committee Meeting
- 12.....Assemblies Ball
- 17-20.....Spring Recess
- 24.....Class Elections
- 25.....Institute Committee Meeting
- 26.....Inter-Fraternity Conference Dance
- 27.....Five-Fifteen Club Carnival
- 30.....Meeting of M. I. T. A. A.

## May

- 2.....Institute Committee Meeting
- 7.....Meeting of the Advisory Council on Athletics
- 9-10.....Voo Doo Sales Days
- 10.....Freshman Formal Dance
- 14-15.....Tech Engineering News Sales Days
- 16.....American Institute of Chemical Engineers Dinner
- 16.....Institute Committee Meeting
- 21.....Meeting of the M. I. T. A. A.
- 22.....Last Exercises of Second Term
- 23.....Second Term Examinations Begin
- 30.....Memorial Day (holiday) ..
- 31.....Five-Fifteen Club Moonlight Sail

## June

- 3.....Alumni Day
- 4.....Commencement Day
- 10.....Summer Sessions Begin (for most subjects)



DR. KARL T. COMPTON  
President of the Institute



## OFFICE OF THE PRESIDENT

---

To Members of the Class of 1943:

As the seventy-fourth class to enter M. I. T., you have awaiting you the interest, welcome and support of the seventy-three preceding classes, including more than thirty thousand alumni. During the next four years you will come to know something of the achievement of this great group of Alumni and to see what it means to be a Technology man and what the goals and opportunities are for you.

We hope to aid you in every possible way to attain these goals. You will have at your disposal educational facilities superior to any available in the past. More important, you will be associated with a select company of scholars—five hundred scientists, engineers and other teachers and experts who have a keener interest in your personal welfare and development than you can ever realize now. Your fellow students, particularly the upperclassmen, will likewise contribute to your advancement through those subtle and friendly ways that active minds stimulate each other.

All these will be of aid to you not only in obtaining the specialized education which is your central objective here but in acquiring that breadth of interest and awareness so important in these challenging days of economic and social change.

The Technology Christian Association is an important factor in our undergraduate life. Not only does it render many practical services but it provides opportunities that we all need to participate in wholly altruistic activities. It deserves your hearty interest and support.

*Karl F. Compton*

President.



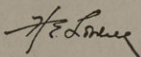
HAROLD E. LOBDELL  
Dean of Students

## OFFICE OF THE DEAN OF STUDENTS

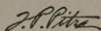
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The following pages convey the genuine welcome that the Institute extends to the Class of 1943. They also suggest the manifold Technology undergraduate activities that so profitably complement our scholastic program and enrich our community life.

You will find the Institute has much more to offer any student of reasonable intelligence than classroom and laboratory work. If your academic preparation for Institute work has been sound and thorough you need have no hesitancy in engaging in one or more of these activities which are being so competently managed by undergraduates themselves.



Dean of Students



Associate Dean



THOMAS P. PITRE  
Associate Dean

## TECHNOLOGY

---

THE dream of a greater Technology came into being during the month of June, in 1916, for it was at this time that the dedication took place of the new Technology buildings on Charles River Basin and also the cornerstone of Walker Memorial was laid.

One of the most recent additions is the new Aeronautical Building, which was made possible by the generous gift of the Daniel Guggenheim Foundation for the promotion of aeronautics. This building contains a wind tunnel which occupies three floors and runs the entire length of the building. A new tunnel in front of the building provides a wider range of conditions than any existing American wind tunnel offers at present.

Another new addition to the Institute buildings is the Automotive laboratory which is equipped with both the usual models and special types of engines. This laboratory is the most up-to-date of its kind.

The George Eastman Laboratory, completed during the summer of 1932, is expressly for the departments of chemistry and physics, and contains the best of equipment. The Spectroscopy Laboratory adjacent to it, houses the most modern apparatus for research in that field.

The Infirmary is located in a four-story wing of the Institute buildings. The first floor contains the of-

office of the Medical Director, the first aid room, the nose, throat and dental clinics, four large examination rooms, eight dressing chambers, a filing room for records and a large waiting room. There are twelve beds on the second floor, and two five-bed wards, four private rooms, a kitchen, and an operating room on the third floor. There is a solarium and a tile-paved sunporch on the fourth floor.

Walker Memorial is a gift of the Alumni of the Institute to the Undergraduates to be used as a social and recreational center. It was completed just before the war and during the entire conflict was used by the Naval Aviation Service as headquarters and a training center. The building contains offices of all the student activities, a large dining room, which is also used for dances, and several smaller dining rooms which may be used for activity functions. There is also a library and reading room, a faculty and alumni room, and two lounge rooms; a large gymnasium with locker room and showers, three handball courts and a boxing room as well as bowling alleys. The government of the Walker Memorial and of the Hangar Gymnasium is vested entirely in the hands of a sub-committee of the student governing body. This sub-committee is known as the Walker Memorial Committee and is charged with the entire administration of both buildings.

The boathouse was purchased several years ago from the B. A. A. and is for the sole use of the undergraduates of the Institute. The building is located on the Charles River Basin, a short distance from the Institute. Its equipment is among the finest in the east, and better facilities for those interested in rowing whether it be for pleasure or competition cannot be found.

The M. I. T. Sailing Pavilion, a 130 foot building, was erected in 1936 in front of Walker Memorial. It houses 48 dinghys and has commodore's offices, lounge and classrooms, where shore school is conducted. Sailing has already gained tremendous popularity in the few years it has been an activity at the Institute, and is one of Technology's leading sports.

The Hangar Gym is the home of many of Technology's activities. During the war the naval men stationed at the school erected the building as a hangar for the naval training planes in use. The building has been remodeled and it now contains a regulation size basketball court with ample seats for spectators, a boxing ring, space for the wrestling team, and a large room used to store aeroplanes and large guns used in the instruction ground school.

The track house contains the office of the track coach and trainer, several locker rooms, a shower room





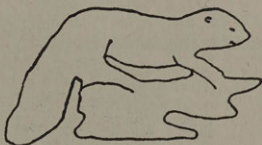
THE DOME



and several other facilities for track men. Adjoining the track house are the squash courts which are always open to anyone caring to use them.

There are two athletic fields at Tech and there are tennis courts adjoining each of the fields. Provision is made for nearly every recreation with the exception of golf and there are many fine courses within a few minutes of Technology.

The original Tech Building, the Rogers Building, was sold in 1937, and the new William Barton Rogers Architectural Building on Massachusetts Avenue is now in use. In addition to the School of Architecture the new structure contains heat and refrigeration laboratories, class rooms, faculty offices, a museum hall, the Lowell Institute School, and the offices of the Alumni Association. All of Technology is now in Cambridge.





THE GREAT COURT

## ADVICE

---

**I**N entering Tech you will face new problems, new interests and diversions. Do not let them overwhelm you. The student most likely to succeed is the one who makes his years at Tech a perfect co-ordination of study, activities, and social life. Tech is rightfully recognized as one of the hardest engineering schools in the country but do not let this make a grind of you. Then, too, Boston's unlimited opportunities for social life, and the large number of activities at the Institute often disillusion the new man to such an extent that he unknowingly neglects his studies. With these points in mind start your year right and see that it stays right. Go to all of your classes and get all you can out of each one, be especially attentive during the first two weeks, for attention then will usually make your courses much easier for you.

Most of you who come to Tech as freshmen cannot help but feel somewhat "lost" because of the size of the Institute. Two things may help you to overcome this feeling. First, remember that your fellow freshmen feel just as uncomfortable as you do, and second that everyone around school has at one time been a freshman. Make it a point to meet as many fellow freshmen as you can

during the first week; don't wait for introductions.

Read THE HANDBOOK thoroughly and become familiar with the different phases of life at the Institute. The following information concerning Technology should be understood by every freshman.

1. The colors of Technology are cardinal red and silver gray.

2. The Institute songs and yells are given in this book. Freshmen are expected to know them all. The Stein Song is your Alma Mater song.

3. Know your classmates. They are the ones who will make your stay at the Institute enjoyable and be helpful to you in later life.

4. LEAD THE STRENUOUS LIFE, athletics and activities welcome you. The Institute is more than a mere work shop; it is a place of opportunity for the development of all that is best in a man. The more you put into it, the more you get out of it.

5. No insignia or numerals other than those awarded by the Advisory Council or M. I. T. A. A. may be worn by undergraduates in the gymnasium or on the Athletic Field.

6. The Walker Memorial is a building for your use and offers not only social advantages but also eating facilities at a reasonable price.

PATRONIZE YOUR COLLEGE CAFETERIA AND GRILL ROOM. The offices of the Student Activities are also in the Walker Memorial Building.

7. You are welcome to expert medical advice, free of charge, from the Institute Physician, whose office is in room 3-115. Doctors are on duty from:

8:30—10:00  
10:30—12:00  
12:00— 1:30  
3:30— 5:00

There is also a trained nurse on duty between the hours of 8:30—5:00. The Infirmary is open 24 hours daily and the charges are \$1.00 per day for a Ward and \$2.00 per day for a private room.

8. Suitcases, coats and similar personal effects may be checked free of charge in the basement of Walker Memorial.

9. Technology is one of the hardest engineering schools in the country, but that is no excuse for becoming a grind. Go out for some activity and follow it up. It will furnish excellent relaxation, as well as giving valuable training and experience.

## ALL-TECH SMOKER

---

**F**RESHMEN will be officially welcomed to M. I. T. at the All-Tech Smoker which will be held Monday evening, September 25, at Walker Memorial. Admission is free, and all freshmen are urged to attend, with their fathers or "uncles" if possible.

After the banquet, faculty and student speakers will give short addresses on academic and extra-curricular activities at the Institute. Entertainment will be provided in the form of athletic exhibitions by various M. I. T. teams.

Only 400 freshmen will have the opportunity of attending Freshman Camp to get acquainted with the spirit and traditions of M. I. T., but the whole class of 1943 can attend the All-Tech Smoker to get a warm welcome and the official send-off. Here the new men meet President Compton and the various Deans of Technology. Then, as the evening progresses, and all voices are lifted in Tech's immortal "Stein Song" freshmen realize that they are now a part of the Institute, a group designed to bring still more glory to Tech's name and to the class of '43.

Tickets are issued to freshmen in the main lobby and at the Freshman Registration Rooms on September 25 for the dinner, which is a most important part of Registration Day.

## FRESHMAN RULES

---

THE development of Technology spirit, of a real pride in the position of our school in the collegiate world, and the formation of lasting friendships are fostered as much as possible by the undergraduates of the Massachusetts Institute of Technology. To aid the members of the entering class in the development of class spirit, to acquaint them with the traditions of their school, and to encourage acquaintanceships among themselves, the following Freshman Rules have been established for their information and guidance.

1. All Freshman shall wear regulation ties, four-in-hand, with cardinal and gray stripes. These shall be worn when on Institute grounds for the first day of classes until the end of the rules period. These ties will be sold in Registration Day by the Quadrangle Club.

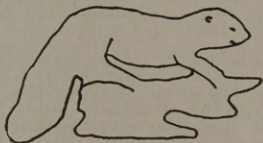
2. Freshmen are expected to speak to all members of the faculty and to tip their hats to the President of the Institute and to the Deans. To promote acquaintanceships and friendly spirit among members of the class, freshmen are expected to greet each other on sight.

3. The administration of the above rules is in charge of the

Quadrangle Club. This organization will enforce the rules in such manner as it sees fit.

4. If the freshmen win Field Day, these restrictions will be removed at the beginning of Christmas vacation. If the freshman are not successful, the rules will continue in force until the end of the term.

The rules have been adopted for the purpose of promoting class spirit and organization in the entering class. They should be regarded as instruments for this purpose, and not as any humiliation for first year men.





## FRESHMAN CAMP

---

**F**RESHMEN, upon entering the Institute are so suddenly thrown into a life entirely different from that to which they are accustomed, that they may become lost in the newness of it all. In order to help bridge this gap between preparatory or high school and college, the annual Freshman Camp is held. The camp serves as a short cut for a freshman to the life and spirit of the Institute, and as a compass whereby he can help orient himself to his new world.

By living, eating and talking with a group of leading upper-classmen, faculty and alumni for three days, the freshmen get a touch of the best which these men have seen and experienced in the Institute. They become acquainted with the activities, athletics and life at Technology; and what is by far the most important, they get to know a large number of their classmates in an informal and intimate way before beginning their four years of work. They strike up acquaintances with men whom they perhaps would never have seen nor known had it not been for the camp. It is at a time such as this when the finest in Technology spirit becomes most contagious.

## TO THE NEW STUDENTS FROM FOREIGN COUNTRIES

---

Heartiest welcome to the Institute!

We realize that you who have just arrived in the United States will have many problems and questions during your first few months at M. I. T. We folks in the Technology Christian Association are here to help you in any difficulty whatsoever; come in and see us when you arrive at Tech. Remember that there is no distinction between Race or Religion in our Association.

One of your first questions when you arrive in Cambridge will be that of a room. If you cannot room in the Dormitories, the T. C. A. has a list of rooms available at the beginning of the term. Come in and look at it; it may help you. We also have a list of all your countrymen, and we can help you make their acquaintance. There are also many Associations in Boston and Cambridge besides the T. C. A. which do much to make the Foreign student's stay in this country more enjoyable. Through us you will receive invitations from them for various dances and dinners. Do not pass up these opportunities; you will find them very enjoyable. The T. C. A. is here to be of service to you; do not be afraid to come in and ask us questions; you will receive a friendly welcome and all the help you need.

## FIELD DAY

---

**S**INCE November 19, 1901, the supremacy of one of the two lower undergraduate classes over the other has been determined by a Field Day. Through this system, organized athletic contests have displaced the former dangerous cane rushes and "free-for-alls."

Field Day consists of six parts: a football game, crew race, relay race, tug of war, dinghy race, and a glove fight.

As Field Day takes place at the end of October, practices of different teams start simultaneously with academics at the Institute. Not only does this day mark the beginning of actual participation in school activities for the freshmen, but also, many new and permanent acquaintances are formed among their teammates as well as among their opponents.

Coaches and supervising managers are furnished from the regular coaching staff and from members of the upper classes. Juniors act as sponsors for the freshmen, seniors for the sophomores. Do not disappoint those who are backing you. Be one to help engrave the numerals of your class on the Field Day Cup!

**Field Day Scores**

|                           | Year | Won by     |
|---------------------------|------|------------|
| 1901—Class of '04 vs. '05 |      | Freshmen   |
| 1902—Class of '05 vs. '06 |      | Sophomores |
| 1903—Class of '06 vs. '07 |      | Sophomores |
| 1904—Class of '07 vs. '08 |      | Sophomores |
| 1905—Class of '08 vs. '09 |      | Sophomores |
| 1906—Class of '09 vs. '10 |      | Sophomores |
| 1907—Class of '10 vs. '11 |      | Sophomores |
| 1908—Class of '11 vs. '12 |      | Freshmen   |
| 1909—Class of '12 vs. '13 |      | Freshmen   |
| 1910—Class of '13 vs. '14 |      | Sophomores |
| 1911—Class of '14 vs. '15 |      | Sophomores |
| 1912—Class of '15 vs. '16 |      | Sophomores |
| 1913—Class of '16 vs. '17 |      | Sophomores |
| 1914—Class of '17 vs. '18 |      | Freshmen   |
| 1915—Class of '18 vs. '19 |      | Sophomores |
| 1916—Class of '19 vs. '20 |      | Freshmen   |
| 1917—Class of '20 vs. '21 |      | Sophomores |
| 1918—Class of '21 vs. '22 |      | Sophomores |
| 1919—Class of '22 vs. '23 |      | Sophomores |
| 1920—Class of '23 vs. '24 |      | Sophomores |
| 1921—Class of '24 vs. '25 |      | Sophomores |
| 1922—Class of '25 vs. '26 |      | Sophomores |
| 1923—Class of '26 vs. '27 |      | Sophomores |
| 1924—Class of '27 vs. '28 |      | Sophomores |
| 1925—Class of '28 vs. '29 |      | Sophomores |
| 1926—Class of '29 vs. '30 |      | Sophomores |
| 1927—Class of '30 vs. '31 |      | Sophomores |
| 1928—Class of '31 vs. '32 |      | Freshmen   |
| 1929—Class of '32 vs. '33 |      | Sophomores |

**Field Day Scores**

|                           | Year | Won by     |
|---------------------------|------|------------|
| 1930—Class of '33 vs. '34 |      | Freshmen   |
| 1931—Class of '34 vs. '35 |      | Sophomores |
| 1932—Class of '35 vs. '36 |      | Sophomores |
| 1933—Class of '36 vs. '37 |      | Sophomores |
| 1934—Class of '37 vs. '38 |      | Sophomores |
| 1935—Class of '38 vs. '39 |      | Sophomores |
| 1936—Class of '39 vs. '40 |      | Sophomores |
| 1937—Class of '40 vs. '41 |      | Freshmen   |
| 1938—Class of '41 vs. '42 |      | Sophomores |





THE PRESIDENT'S RESIDENCE

## TECH SONGS

---

**R**ICH indeed are the undergraduates of Tech as far as school songs are concerned. Some of the songs here printed were composed in response to a competition; others are the gift of many Tech men who have gone on before. They have been handed down from class to class, and with each year they have become more and more dear to the heart of the undergraduate. Tech students should, therefore, sing them with a great feeling of pride, for there is not another school in America that can boast of a finer group of songs. Out of a host of Tech songs, the following have been chosen as the best liked and the most often used of the group.

Foremost among the group is the "Stein Song," which is the Alma Mater song of Technology. This song has become quite famous throughout the entire world and there is not a better known college song anywhere. The words are by Mr. Hovey, the Dartmouth Poet and the music is by Frederick Field Bullard, '87, well known and highly regarded as a composer. The history of the song is as interesting as its tune and now occupies the foremost position in the songs of the Institute. "Take Me Back to Tech" by I. W. Litchfield, '85, is equally popular on the campus.

According to tradition, the "Stein Song" and usually "Take Me Back to Tech" are sung at every gathering of Technology men.

Every new man should learn the words of the songs before arriving at school. If the words are known the tunes are soon picked up, and the result is a group of songs which will be remembered and sung all your life as reminders of days at Tech.

In addition to the songs, the cheers should also be learned so that the new man will enter the enthusiasm of all gatherings.

### *The M. I. T. Stein Song*

Give a rouse then, in the May-time,  
For a life that knows no fear!  
Turn the night-time into day-time  
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.

#### Chorus

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 a-plenty,  
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;  
And life slips its tether  
When 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.

*Take Me Back To Tech*

Tune, "Solomon Levi"

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 gloricus 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.

Oh, 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 af-  
ter G.  
Massachusetts Institute of Technol-  
ogy.

Words by I. W. Litchfield, '85

**CHEERS***Tech Is Hell*

WE ARE HAPPY—TECH IS HELL  
 T-E-C-H-N-O-L-  
 O-G-Y TECHNOLOGY!  
 TECHNOLOGY!  
 TECHNOLOGY!  
 TEAM!  
 TEAM!  
 TEAM!

*The Tech Cheer*

M. I. T. Rah! Rah! Rah!  
 M. I. T. Rah! Rah! Rah!  
 M. I. T. Rah! Rah! Rah!  
 Technology! Technology!

## DIRECTORY

### *Class Officers*

#### 1940

President, W. Happer Farrell  
Vice President, David T. Morgenthaler  
Secretary-Treasurer, Wesley J. Van Sciver  
Institute Committee, H. Garrett Wright  
Institute Committee, Joseph J. Casey

#### 1941

President, Williard S. Mott  
Vice President, Arnold S. Mengel  
Secretary-Treasurer, Joseph G. Gavin, Jr.  
Institute Committee, Lester W. Gott  
Institute Committee, John B. Murdock

#### 1942

President, Carl L. McGinnis  
Vice President, Robert W. Keating  
Secretary-Treasurer, William G. Denhard  
Institute Committee, Robert S. Shaw  
Institute Committee, Franklin P. Seeley

**Committees****Institute Committee**

President, W. Happer Farrell, '40

Vice President, Thomas F. Creamer, '40

Secretary, H. Garrett Wright, '40

Chairman, Budget Committee,

John B. Titherington, Jr., '40

Chairman, Walker Memorial Committee,

Valentine deV. deOlloqui, Jr., '40

Member At Large, William S. Kather, '40

**Walker Memorial Committee**

Chairman, Valentine deV. deOlloqui, Jr., '40

Junior Members, William R. Ahrendt, '41

Jack M. Klyce, '41

**Budget Committee**

Chairman, John B. Titherington, Jr., '40

**Elections Committee**

Chairman, Paul W. Witherell, '40

**Faculty-Student Committee**

Chairman, James S. Rumsey, '40

**Junior Prom Committee**

Chairman, Williard S. Mott, '40

**All-Tech Smoker Committee**

Chairman, Valentine deV. deOlloqui, Jr., '40

**Open House Committee**

Chairman, David T. Morgenthauer, '40

*Publications***The Tech**

General Manager, William S. Kather, '40

Business Manager,

J. William Blattenberger, '40

Editor, John G. Burr, '40

Managing Editor, Phelps A. Walker, '40

**Technique**

General Manager, Donald W. Ross, '40

Editor-in-Chief, Marion L. Wood, '40

Business Manager, John R. Gray, '40

**Tech Engineering News**

General Manager, R. Dixon Speas, '40

Editor-in-Chief, Jack H. Schaum, '40

Business Manager, Samuel P. Card, '40

**Voo Doo**

General Manager, Charles V. F. DeMailly, '40

Business Manager, Rowland H. Peak, Jr., '40

Managing Editor, Richard M. Crossan, '40

Sales Manager, William H. Hailey, '40

**Benchmark**

General Manager, Frank J. Jerome, '41

Business Manager, Clifford E. Moffet, '41

Editor-in-Chief, Harold E. Dato, '41

Advertising Manager; John H. MacLeod, Jr., '41

**The Handbook**

General Manager, Sterling H. Ivison, Jr., '41

Editor, Robert O. Davis, '42

Advertising Manager, Hugh S. Kelly, Jr., '41

Business Manager, Robert J. Fay, '42

*Activities***Technology Christian Association**

President, William H. Hagenbuch, '40

Vice President, James E. Fifield, '40

Secretary, William R. Taylor, '40

Treasurer, James J. Shipman, '40

**Debating Society**

President, Russell T. Werby, '40

Vice President-Manager, Stanley Backer, '41

Secretary-Treasurer, Franklin P. Seeley, '42

Publicity Manager, Franklin G. Klock, '42

**Combined Musical Clubs**

President, William R. Stern, '40

Concert Manager, Schrade F. Radtke, '40

Treasurer, Rogers B. Finch, '41

**Nautical Association**

Commodore, E. George Pollak, '40

Vice Commodore, Runyon Colie, Jr., '40

Secretary, James Tyson, '41

**The American Student Union**

President, Joseph D. Havens, '40

Vice President, William Sussman, '40

Secretary, Victor G. Forzley, '41

Treasurer, John J. Casey, '40

**Technology Open Forum**

Chairman, Jack J. Kriz, '41

**Interfraternity Conference**

Chairman, Raymond C. Foster, '40

Institute Committee Representative,

J. Herbert Holloman, '40

Secretary-Treasurer,

Raymond W. Ketchledge, '41

**Technology Refugee Committee**

Chairman, Victor M. Wolf, '41



## *Clubs*

### Association of Women Students

President, Edith Cameron, '40  
Vice President Jeanne Pearlson, '40  
Secretary, Phyllis Winter, '41  
Treasurer, Marjorie Quinlan, '41

### Catholic Club

President, Joseph J. Casey, '40  
Vice President, Norman T. Kridel, '40  
Treasurer, Edward F. Murphy, Jr., '41  
Corresponding Secretary, John W. Mullen, '41  
Recording Secretary, Jack B. Dwyer, '41

### Chess Club

President, Alfred J. Green, '40  
Vice President, Arnold S. Shapiro, '42  
Treasurer, David L. Shapiro, '41  
Captain, George Farnell, '41

### Chinese Students' Club

President, Charles S. H. Tsiang, "G"  
Secretary, Kenneth Y. Sze, '41  
Treasurer, Ieoh-Ming Pei, '40  
Manager, Ching Hsueh Wu, '40

### DeMolay Club

President, Mason Downing, '41  
Vice President, Elmer Greenleaf, '41  
Secretary, William S. Christenson, '42  
Treasurer, Edward F. Thode, '42

### Dramashop

President, Marshall Bearce, '40  
Secretary, Barbara Laven, '40  
Treasurer, Burton Eddy, '42

**Christian Science Organization**

President, Harry J. Heimer, '41  
 Treasurer, Richard R. Hughes, '42  
 Reader, Frederick G. Lehman, '40

**5:15 Club**

President, Wylie C. Kirkpatrick, '40  
 Vice President, Joseph J. Casey, '40  
 Treasurer, Richard C. Babish, '40  
 Secretary, John A. Eaton, '40  
 Executive Committee, T. Vernon Kyllonen, '40  
 Alfred N. Ackerson, '40

**Menorah Society**

President, Bernard F. Greenberg, '40  
 Vice President, Harvey I. Pofcher, '41  
 Treasurer, Morris I. Gabel, '40  
 Secretary, David Nicholson, '42  
 Executive Chairman, Julius A. Kohn, '41

**Mathematical Society**

President, Marvin P. Epstein, '42  
 Vice President, Jeanne Sally Pearson, '40  
 Secretary-Treasurer, Oliver K. Smith, '40  
 Program Manager, Henry E. Singleton, '40

**Radio Society**

President, T. M. Ferrill,  
 Vice President, J. L. Schultz, '42  
 Secretary-Treasurer, F. E. Vinal, "G"

**Unity Group**

Rev. William H. Gysan

**Outing Club**

President, Robert S. Harper, '40  
 Vice President, Olaf S. Rustad, '40  
 Secretary-Treasurer, W. Kenneth Davis, '40

**Peace Federation**

President, I. Seth Levine, '40  
 Vice President, Paul W. Witherell, '40  
 Secretary-Treasurer, Edward W. Smith, Jr., '42  
 Corresponding Secretary,  
 Joseph E. Dietzgen, '41

***Honorary Societies*****Alpha Phi Omega**

President, Norman P. Scott, '40  
Vice President, Richard C. Babish, '40  
Secretary, Charles E. MacKinnon, "G"  
Treasurer, Henry L. Pohndorf, '41

**Baton**

President, Schrade F. Radtke, '40  
Vice President, Alfred E. Castle, '40  
Secretary-Treasurer, Rogers B. Finch, '41

**Beaver Key Society**

President, William R. Stern, '40  
Vice President, George C. Halstead, '40  
Secretary, William R. Taylor, '40  
Treasurer, Phelps A. Walker, '40

**Dorclan**

President, J. B. Wiley, Jr., '40  
Vice President, W. J. Schnorr, '40  
Secretary-Treasurer, E. D. Crosby, '40

**Gridiron**

President, R. Dixon Speas, '40  
Treasurer, Samuel P. E. Card, '40  
Secretary, Ben K. Duffy, '41

**Quadrangle Club**

President, Jerome T. Coe, '42  
Vice President, Sheppard Y. Tyree, Jr., '42  
Secretary, James H. Henderson, '42  
Treasurer, Warne P. Johnson, '42



## *Professional Societies*

### Combined Professional Societies

President, Frederic W. Hammesfahr, '40  
Secretary-Treasurer, George Weinbrenner, '40

### Aeronautical Engineers Society

President, Roger H. Wiethoff, '41  
Vice President, Thaddeus F. Walkowicz, '41  
Secretary Chester N. Hasert, '41  
Treasurer, Joseph G. Anthony, '41

### American Institute of Chemical Engineers

President, Frederic W. Hammesfahr, '40  
Vice President, Norman R. Klivans, '40  
Secretary, Alan Surosky, '41  
Treasurer, William Kussmal, '41

### American Society of Civil Engineers

President, H. Garrett Wright, '40  
Vice President, R. A. Bittenbender, '40  
Treasurer, Walter Carran, '40  
Secretary, Richard J. Eberle, '40

### American Society of Chemical Engineers

President, John McMullen III, '40  
Vice President, Stuart R. White, '40  
Treasurer, Raymond F. Koch, '41  
Secretary, William R. Schuler, '40

### Army Ordnance Association

President, George Weinbrenner, '41  
Vice President, Joseph C. Jefferds, '40  
Secretary-Treasurer, Schrade F. Radke, '40

**Chemical Society**

President, Henry Rapoport, '40  
Vice President, Marjorie Quinlan, '41  
Secretary, Arnold Arch, '40

**American Institute of Electrical Engineers**

President, Richard B. Lawrence, '40  
Vice President, H. Tyler Marcy, '40  
Secretary, Ralph J. Kochenberger, '40  
Treasurer, Henry A. Burr, '40

**Physical Society**

President, James F. Follin, '41  
Vice President, Oliver H. Fulton, '40  
Secretary-Treasurer, William H. Cherry, '41

**Propeller Club**

President, Howard M. Woodward, '40  
Vice President, C. R. Andrews, '40  
Secretary-Treasurer, John T. Kirk, Jr., '40

**Sedgewick Biological Society**

President, Dudley Follansbee, '40  
Vice President, Richard Hammerstrom, '40  
Secretary, Thomas McConville, '40  
Treasurer, David Johnstone, '40



**Golf**

Captain, Joseph C. Jefferds, Jr., '40  
Manager, Richard C. Wynne, '41

**Gym**

Captain, Louis Michelson, '40  
Manager, Johan Andersen, '41  
Coach, Herbert Forsell

**Hockey**

Co-Captains, Randolph M. Browning, '40  
Nathaniel M. Sage, Jr., '41  
Manager, Jonathan C. Ingersoll, '41  
Coach, George Owen

**Lacrosse**

Captain, Richard MacPaul, '40  
Manager, Warner Knight  
Coach, Walter Tucker

**Soccer**

Co-Captains, John J. Herguth, '41  
E. J. Regaldo, '41  
Manager, Robert Wilson Blake, '41  
Coach, Malcolm Goldie

**Swimming**

Captain, William R. Schuler, '40  
Manager, Jack C. Heist, '41  
Coach, J. Jarosh

**Tennis**

Captain, Richard Braunlich, '40  
Manager, Jack L. Brogan, '41  
Coach, Jack Summers

**Squash Racquets**

Captain, Robert G. Millar, '40  
Manager, Clark Benson, '41  
Coach, Jack Summers



**Track**

Captain, George W. Clark, '40  
Manager, Kenneth A. Bohr, '40  
Coaches, Oscar F. Hedlund  
Robert Bowie

**Wrestling**

Co-Captains, William Stone, '40  
John Vanderpoel, '40  
Manager, William R. Schwindler, '41  
Coach, Jay Ricks

**Rifle**

Captain, Valentine deV. deOlloqui, Jr., '40  
Manager, Joseph H. Meyers, '41  
Coach, Sergeant Harold F. McDonnell

**Pistol**

Captain Richard K. Henry, '41  
Manager, C. H. Wu, '40

**Publicity**

Manager, Robert J. Meier, '41



W. HAPPER FARRELL  
President, Class of 1940

## FRESHMAN MESSAGE

To the Class of 1943:

It is a great pleasure to welcome you to the Institute, where you will spend the next four years. In order to get the best out of these years, it is important that you start out on the right foot in the first few weeks of school. By having fulfilled the requirements for admission, which are not alone scholastic, you need not fear that you have not the ability to graduate.

Between now and the time you graduate, it is necessary that you develop the traits to make you sought-after young men. To make this possible you must become well-rounded students—that is, to have the ability to study, to get along with your fellow students, to take care of your health properly with a good diet and with regular exercise, to find relaxation in reading, music or art, and to hold your own in social functions. This may be old lecture material to you; however, no matter how trite it may seem, it is important. Many people have the opinion that a Tech graduate is narrow-minded in that he can only study and work, and in that he cannot mix in society.

When you first arrive at the Institute, take definite steps to orient yourself, complete all the instructions that were sent to you concerning registration, and do all the

homework that is assigned. Any Tech student will tell you that your first term scholastic rating means a lot to the following years at the Institute. Undoubtedly you will feel that in the first few days you are being asked to do too much. Whether you are right or not is irrelevant, for the procedure is to get you started as quickly as possible. Absorb as much as you can, paying particular attention to what is expected of you scholastically and to those other items which fit in with your interests.

The number of friends and acquaintances you make at the Institute will have a tremendous influence on your future. With that in mind and with the development of your interests in sports and activities, I strongly advise you to take advantage of every opportunity of meeting the men who are in sports and activities, and to participate in creating class spirit. As for the latter, remember that the attitude of the individual makes such a spirit possible, regardless of the number of persons in the class. Go out and win Field Day for your class. Individual performance is the foundation of Field Day events, and the summation of many individual performances makes success.

I hope that you will do well at the Institute in all its phases, and that I may meet you personally sometime in the future.

Walter "Hap" Farrell,  
President of the Senior Class.

## HISTORY

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ALTHOUGH the Massachusetts Institute of Technology was officially established when the Commonwealth of Massachusetts granted a charter for the new "polytechnic school" in 1861, it had begun to take form some 20 years before, when William Barton Rogers, the founder and first president, started his plans for the Institute. The Civil War came soon after the charter was granted, and it was not until February, 1865 that the first class, a small group of earnest students, met in the Mercantile Building on Summer Street, Boston, to begin their studies.

A descendant of brilliant Irish stock Rogers for many years was professor of natural philosophy at the College of William and Mary, and later at the University of Virginia, during the period when traditional modes of classical education went almost unchallenged. As early as 1846, Professor Rogers recognized the definite need for an institution where students not only might learn the fundamental of science and engineering, but extend research, invention, and industry through the study of "all the principles of physical truth." Toward that end, first as proponent, then as founder and president of the Massachusetts Institute of Technology, he labored until his death.

Perhaps Rogers' greatest contribution to scientific education, aside from the actual establishment of the institute, was his introduction in America of the laboratory system of instruction. The Rogers Laboratory of Physics at Technology, named in his honor in 1872, was the first of its kind in the world.

In 1868, the Institute moved to the Rogers Building on Boylston Street in Boston. Here the entire Institute carried on for a period of 18 years.

Ill health forced President Rogers to resign in 1870, and Dr. John D. Runkle undertook the duties of acting president, which office he occupied during eight years of desperate struggle to secure funds and students. Following Dr. Runkle's resignation, Dr. Rogers again assumed the presidency, and during the next two years, with the aid of friends, he succeeded in raising funds sufficient for the continuance of the Institute. He died soon afterwards as he stood on the platform of Huntington Hall addressing the graduating class of 1882. In the words of his successor, "All his life he had borne himself faithfully and heroically, and he died in the harness, at his post, and in the very part and act of public duty."

General Francis Amasa Walker, Technology's next president, was a pioneer in the field of economics and statistics, and a master of sci-

entific method. A soldier, he rendered distinguished service with the Union Army during the Civil War. For eight years he was professor of history and political economy at Yale University, and at the time of his appointment to the presidency of the Institute was United States Superintendent of the Census. Under his able leadership the struggling technical school grew to be a great scientific institution of 1200 students.

Following President Walkers' death in 1897, Professor James M. Crafts served as administrative head until 1900, when he was succeeded by Dr. Henry S. Pritchett former director of the United States Coast and Geodetic Survey. During his presidency of seven years, the athletic and social life of undergraduates was greatly enhanced, and the establishment of graduate courses led to increased opportunities for research.

For two years following Dr. Pritchett's resignation in 1907, Dr. Arthur A. Noyes '86, founder and Director of the Laboratories of Physical Chemistry, served as acting president.

With the inauguration in 1909 of Professor Richard C. Maclaurin, of the department of physics at Columbia University, Technology entered a new era. By this time the school had outgrown its quarters in Back Bay, Boston. Its courses had

increased in number from 6 to 15; the instructing staff from 10 to 300; its student body from 15 to 1500. It was Dr. Maclaurin's role to raise the funds necessary for a new Technology, and less than five years from the day he took office, the first buildings on the present site along the Charles River Basin were under construction. This vast project was made possible by the generosity of the late George Eastman, who for many years was known only as the mysterious benefactor, "Mr. Smith", and whose gifts to the Institute totalled nearly \$20,000,000

With magnificent and symbolic ceremony, the greater Technology was dedicated in June, 1916. The American flag was lowered from the staff of Rogers Building, where it had flown for 50 years, as the building made its final appearance as the center of Technology life. On the following evening, a great barge, "Bucentaur" bore the seal of the Institute across the Charles River to its new home. Searchlight rays playing on the ship from the roof of Rogers were crossed by rays from the Institute dome, and as the light from the old building faded gradually away, the future destiny of the Institute became embodied in the new buildings.

During the World War, President Maclaurin offered to the government the facilities of every Institute laboratory and the services of its staff. Special courses in naval architec-



ture, military aeronautics, and radio engineering were established, as well as a school for deck officers, a cadet school for ensigns, a school for merchant marine officers, and a naval aviation detachment.

In 1919, in order that the Institute's future development might be without financial handicap, President Maclaurin undertook to raise an endowment fund, but, worn out by this successful struggle, he died in January, 1920. To him, more than to any other one man, the world owes the new Institute.

The affairs of the school were then placed in the hands of an Administrative Committee, headed by Professor H. P. Talbot '85, of the department of chemistry, and Dr. Elihu Thomson, life member of the corporation, was elected acting president. In 1921, Dr. Ernest Fox Nichols, former president of Dartmouth College, was elected president of Technology, but was forced by ill health to resign the post without assuming its duties. Again the Administrative Committee, with Dean Talbot as its chairman, took charge.

With the inauguration in June, 1923, of Dr. Samuel W. Stratton, founder and for many years Director of the United States Bureau of Standards in Washington, the new Institute continued to advance. Twenty-two years spent in supervising the government's foremost research

organization had given Dr. Stratton an intimate knowledge of the demands made by industry on graduates of technical schools. Under his guidance, the physical equipment of the Institute's plant was expanded. New laboratories and an infirmary were built, and the addition of two dormitory groups tripled the original capacity. The dormitory units now accommodate over 600 students. During Dr. Stratton's Administration, the great Technology Loan Fund of \$4,000,000 was launched for the purpose of aiding worthy students to finance their education at Technology.

In March, 1930, President Stratton resigned to become chairman of the corporation, and Dr. Karl T. Compton, chairman of the department of physics at Princeton, was elected to succeed him. This dual leadership came to an end in October, 1931, with the sudden death of Dr. Stratton.

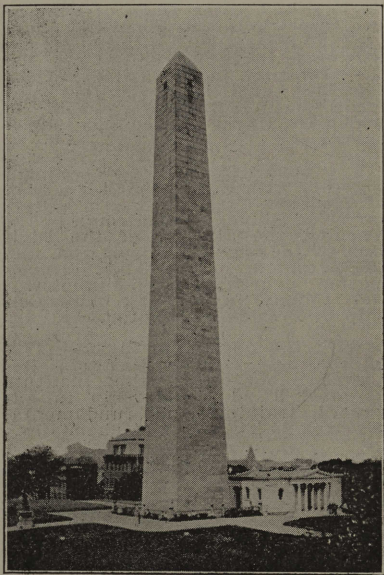
Under Dr. Compton's leadership, the Institute has already made notable advances. In March, 1932, announcement was made of the subdivision of Technology into the School of Science, the School of Engineering, the School of Architecture, the Division of Humanities, and the Division of Industrial Cooperation. Dr. Vannevar Bush, '16, of the department of electrical engineering, was elected Vice-President and Dean of Engineering, while Dr. Samuel C. Prescott, '94, head of the department of biology and pub-

lic health, became Dean of Science. Professor William Emerson, head of the department of architecture, was made Dean of Architecture. For the first time in the history of the Institute, explicit recognition was made of the Graduate School, of which Dr. Harry M. Goodwin '90 became Dean.

The deans of these four schools, together with H. E. Lobdell '17, Dean of Students, 'Treas. H. S. Ford, Bursar D. L. Rhind, the chairman of the Faculty, the director of the Division of Industrial Co-operation, and the president of the Alumni Association, constitute the Administrative Council under the chairmanship of President Compton.

With the dedication in May, 1933 of the new George Eastman Research laboratories, the Institute assumed a new leadership in advanced training and fundamental research in physics and chemistry.

In the fall of 1938 the William Barton Rogers Architecture Building was dedicated, the newest addition to ever-advancing Technology.



BUNKER HILL MONUMENT

## HISTORICAL BOSTON

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By PAUL C. EATON, '27

**B**UNKER Hill Monument, towering into the local fog and smoke, from nearby Charlestown is the most obvious point of departure for a survey of the historical landmarks of Boston. This shaft, from the top of which one may get on a clear day a grand panorama of harbor and city, commemorates the battle of June 17th, 1775 in which 1200 Yankees, sustaining a loss of 449 men, twice repulsed the onslaughts of 3,000 British troops and then withdrew, after inflicting 1054 casualties on the attackers. The monument on the hill known in 1775 as Breed's was dedicated in 1827 by Daniel Webster in the presence of General Lafayette and those "venerable men" who still survived. Practically at the foot of the hill is Charlestown Navy Yard, on the side of which the British landed and formed for the attacks. The yard, established in 1800 and the oldest in the country, is the home port of the famous frigate **CONSTITUTION** which was built in 1779 at Hart's shipyard across the mouth of the Charles and rebuilt in the old Navy drydock in 1930.

On Copp's Hill across in Boston, and just above North End Park which faces the Navy Yard is the

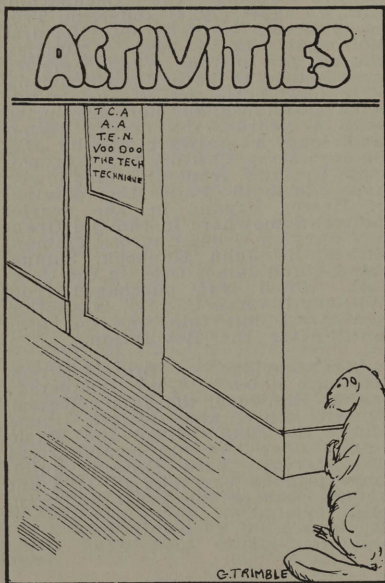
Old North Church, located in an Italian neighborhood, which was, in colonial times, the most aristocratic district in the city. From the belfry of the Old North Church, Paul Revere saw the lanterns which started him off "to ride and spread the alarm through every Middlesex village and farm". The Copp's Hill Burying Ground contains the graves of Increase, Cotton and Samuel Mather, Puritan divines and leaders in the Colony. Paul Revere's house is still standing, just off Prince Street, in a region now famous for wine.

Faneuil Hall (1762-3), the Cradle of Liberty, is a block or two west of Revere's house and not far from the Old State House (1748) at the head of State Street. Passing from the former to the latter, one may see set in the sidewalk an arrow which points out the place of the Boston Massacre of March 5, 1770, when an hysterical British officer ordered his men to fire into an equally hysterical mob. The Custom House Tower, which shadows State Street, is built above the old building in which Hawthorne, the novelist, and Bancroft, the historian, served as government employees. Since the land belongs to the federal government, the height of the tower, 450 feet, was not restricted by the ordinances which have kept other buildings lower.

The Old South Church (1730-32) on Washington Street was the meeting place of patriotic agitators of

pre-Revolutionary days and became a riding school for British officers during the Occupation. King's Chapel (1754) above, on Tremont Street, has been both the first Episcopal and first Unitarian church in Boston, when America was hostile to both denominations. The oldest cemetery in the city adjoins the church, and here are buried John Winthrop, the first governor and long a stalwart of the Bay Colony. Mary Chilton, the first woman to land from the Mayflower, and Elizabeth Pain, the original of Hester Prynne in **The Scarlet Letter**. Somewhere in the Old Granary Burying Ground across Tremont Street, lie John Hancock, Samuel Adams, and James Otis. In the Common, which was purchased from William Blaxton in 1634, is another graveyard, but this was not used until after the Revolution.

In Cambridge, on Brattle Street, once the home of Tory aristocrats, stands Elmwood, the James Russell Lowell house, and Craigie House, where Longfellow lived and Washington once had his headquarters. The Harvard Yard contains buildings used as barracks in 1775 and as the seat of the great and general Court.





### **Institute Committee**

**T**HE control over student affairs at Technology is vested in the Institute Committee, which is composed entirely of students. As there is complete student government at M. I. T., the Institute Committee makes final decisions in all questions relating to student activities. The judiciousness of the decisions of the Institute Committee has attained for it a position of respect in the eyes of the student body.

It is a truly democratic body composed of the President, two members-at-large from each class in the Institute and the heads of all the major activities. Its meetings, at which all sorts of questions are brought up, are open to the entire student body. Thus it has been recognized as the most reliable source of obtaining student opinion as well as a substantial organization for guiding student life.

### **Dormitory Committee**

**T**HE purpose of the Dormitory Committee is to administer student government in the dormitories and to handle such activities as sports, dances, dinners, and teas. Among the members of the committee are the chairman, secretary, and treasurer, and the chairmen of such committees as the Dance Committee, Athletic Commit-

tee, Social Committee, and Burton Room Committee. It is particularly close to the rest of the dormitory men through its Freshman Committee, Hall Chairman, and floor chairmen. Special emphasis is placed upon the aiding of first year men.

### **Budget Committee**

**T**HE primary purpose of the Budget Committee is to regulate the expenditures of athletic funds from the student tax. It is thus an integral part of the M. I. T. A. A., the Chairman being a member of the Executive Committee as well as the Treasurer and a member of the Executive Committee of the Institute Committee. Because of this latter office, Institute Committee and class funds are also handled by the Committee.

Athletic budgets are prepared by team managers together with the Budget Committee. In this way, optimum expenditure of athletic funds is assured. In addition, financial reports are received from the treasurers of all recognized Student Activities and from them, a summary report is prepared each year, which includes all athletic expenditures also.

The Committee is composed of a Chairman and three other members, one the Treasurer of the M. I. T. A. A., and two chosen from the junior class by the Institute Committee.

### **Junior Prom Committee**

**E**NTIRE responsibility for the outstanding social event of the scholastic year is given to the Junior Prom Committee. This group is composed of five men chosen in the November elections and has as its chairman the President of the Junior Class. Within the past few years the old traditional supper dance has been discarded in favor of a "name band" dance, which more of the class could attend and enjoy than was previously possible. The Junior Prom of the Class of 1940 was held on March 3 in the Grand Imperial Ballroom of the Hotel Statler. Music was provided by Larry Clinton and his orchestra, which was chosen the most popular in a class postcard poll held earlier in the year.

### **Student-Faculty Committee**

**T**HE committee serves as an official liaison group between the faculty and student body. It consists of a faculty group, headed by a chairman, appointed by the President, and a student group of three or four seniors, three juniors and two sophomores, appointed or confirmed by the Institute Committee. New appointments are made in the latter part of the spring term to fill the class representations. At frequent intervals the two groups meet together to deal with curriculum problems which may have aris-

en, to consider constructive proposals on any phase of an Institute activity affecting faculty-student relations, or discuss problems concerning student scholastic welfare in general. As a result of the discussions, recommendations for desirable changes may be made to the proper administrative authorities, or the complainants may be advised as to the reasons why the changes sought are not deemed advisable.

Student and faculty members are chosen from numerous departments in order to represent a good cross section of Institute opinion on all matters, and the men are selected because of their interest or experience in student affairs and probable usefulness on such a committee. Thus constituted, the Committee can deal understandingly with problems arising in any department or individual course. The continuity of the committee guarantees knowledge of how similar problems have been met in earlier years.

It is urgently requested that all student problems pertaining especially to courses and teaching be brought to the attention of the committee, either orally or in writing. Personal grievances or trivial complaints are obviously out of place. Written constructive criticism or complaints can be transmitted to the Faculty Chairman, to the Student Chairman or to any member of the committee.

### **The Walker Memorial Committee**

**T**HE Walker Memorial Committee, an executive sub-committee of the Institute Committee, is designed to regulate extra-curricular activities at Technology. This student administrative group has the responsibility of enforcing the house rules of Walker Memorial, of controlling the publicity campaigns that take place on the Institute grounds, of supervising the meetings of organizations held in the building, and of assigning rooms in Walker Memorial and the Hangar Gymnasium. These duties are executed in such a manner that the facilities are used most advantageously by the largest number of students.

The administration of the newly designed Points System is also vested in the Walker Memorial Committee. The purpose of the Points System is to limit the number of Extra-curricular activities which a student may participate, in order to distribute responsible positions more evenly among the students for the mutual benefit of the activities and students themselves; and to give recognition for achievement of work by publication, from time to time, of lists of the men who rank high in the points system.

By placing control of Walker Memorial in the hands of the students, the Administration has enabled the undergraduates not only to profit

by the many opportunities for recreation offered in Walker Memorial, but also to share the pride and sense of responsibility of ownership.

Recent phases of activity entered upon by the Walker Memorial Committee are: the publication of an Activities Handbook which it is intended will arouse greater interest in extra-curricular activities; and the institution of a Student Activities Employment Bureau which will be ever ready to inform interested applicants of the opportunities in various activities.

Members of the committee are selected as a result of a sophomore competition held early in the school year. Although membership in the committee is not open to freshmen, it presents many fine opportunities for them in the line of executive and personal contact work after they have been at school for a year. The committee is composed of four sophomores, two juniors, and a senior, the chairman, who is also a member of the Executive Committee of the Institute Committee.

## *Publications*

### **The Tech**

**S**INCE 1881, when a small group of undergraduates banded together to establish THE TECH, it has been the official undergraduate newspaper of Technology. Entirely student managed, its object is to present to the undergraduates, faculty, and alumni all news pertaining to the Institute and undergraduate life. At the same time, opportunity is provided in its editorial columns for the expression of student and public opinion.

THE TECH, published twice a week, is run on a competitive basis with the largest staff of all undergraduate publications. Positions of candidate, reporter, and staff member are open to all freshmen. At the board elections, held in February, twelve Sophomores are elected to Junior Board positions, one Junior each to the positions of General Manager, Editor, Managing Editor, and Business Manager.

For the freshman candidate work is offered covering many fields of modern newspaper publishing. Experience in news and editorial writing, business management, advertising, bookkeeping, photography, and newspaper composition are among details met with from the time an event occurs until the newspaper reporting it is sold.



Because of the numerous publications of THE TECH, and its close connection to the undergraduate life at the Institute, its members are drawn in very close contact to the "inside" of undergraduate affairs. The paper takes a large part in sponsoring various functions at the Institute, and in holding social functions to which are invited the prominent men of other activities. Its General Manager is invited to attend many of the important meetings of other groups held at the Institute, such as the Advisory Council meetings of the Athletic Association. These societies naturally want the school paper on their side. Because of this, the members of the staff are closer in contact with Institute activities than the members of any other organization.

A smoker for the benefit of freshman candidates will be held soon after registration. The date and place will be announced later. Freshmen who wish to visit the offices of THE TECH will find the News and Editorial Departments in Room 3, in the basement of Walker, and the Business Office on the third floor, Room 301.

### **Technique**

**T**ECHNIQUE, the Institute Yearbook is a permanent record of all the Student activities of the year both formal and informal.

To the men coming out for



TECHNIQUE, there is offered a large variety of attractions. The editorial, photographic, circulation, advertising, publicity, and art departments give unique opportunity to the staff member for increasing his ability along literary, executive business, or salesmanship lines.

Together with the publication of the book, the TECHNIQUE calendar has on it two important social events for the members of the staff. During the middle of the year an informal dinner is held at some leading restaurant in Boston. Near the end of the year a formal banquet is given at one of the prominent hotels, and at this time the board for the next Volume of TECHNIQUE is announced.

TECHNIQUE sponsors an annual campus event, the presentation of the TECHNIQUE Award. This Award, a cup, is given to the outstanding track man of the year.

In the fall a smoker for the benefit of the freshmen will be held early in October. This begins the competition for positions on the staff which are open to everybody. Our office on the third floor of Walker Memorial is open to you for any information.

### **Tech Engineering News**

**A**NYONE interested in choosing a publication as an activity will undoubtedly find work he likes on one of the various departmental staffs of the TECH

ENGINEERING NEWS. The magazine has been published for twenty years, and was recently awarded permanent possession of the Yale Cup for general excellence in the field of undergraduate engineering publications. The T. E. N. has a large staff adequate to take care of all the business and editorial factors which go into the writing, editing, publishing, and selling of the magazine, and offers a good opportunity for training in each one of these fields. The articles it presents are timely and well-written, and cover a wide range of interesting subjects.

The Editorial Department obtains material from the authors, edits it, and prepares it for publication. Students showing marked writing ability are given the opportunity to submit articles, if they so desire. Valuable experience is to be gained from the contacts with prominent professional men which are open to members of the Editorial Department. Training in the use of technical and non-technical English is an important phase of the departmental program.

A course in Journalism is offered at the Institute for the editorial candidates who wish to take it in place of the regular freshman year English course.

The Business Department includes circulation, advertising, and treasury divisions. The standards of busi-

ness practice maintained are modern and efficient. The business organization of T. E. N. has been a most important factor in its stability and success. Office management, modern accounting practice, and contacts with many important business concerns make the work of the Business Department excellent training for every member.

### **Voo Doo**

**P**HOSPHORUS is the best friend of every undergraduate at Tech. He has just rounded out twenty years of mirthmaking and his crazy antics have continued to receive the approbation and plaudits of the student body. Each year a little better, VOO DOO has well earned the high position it holds nationally among college comics.

VOO DOO has advantages to offer perhaps a little different from any other activity at Tech. Published by men who are not overly burdened with the responsibilities of life and supported by an enviable income from a large student circulation, it is no wonder that the social side has assumed a prominent part. So besides the experience gained by work, the man on VOO DOO has a real opportunity to make pleasing and lasting friendships and mix a reasonable amount of play with the work.

There is, however, work to be

done in getting out the eight numbers every year. The magazine is published by a Senior and Junior Managing Board. The Board is assisted by departmental staffs and candidates for Board positions.

The management is divided into three departments, the art, literary and business departments. The art and literary departments offer a broad field of activity for those with a special aptitude along literary and art lines. Men with ability to draw cartoons, sketches or designs, will be sure to find a place on the publication. The business department is sub-divided into three smaller departments where men can confine their activities to publicity, circulation and advertising.

Candidates are welcome to the VOO DOO office at any time, but the regular competition starts the first few weeks of the fall term. Men with artistic, editorial, humorous or business ability will find VOO DOO an activity abounding in interesting and entertaining work.

## Activities

### Debating Society

THE Debating Society of the Massachusetts Institute of Technology has grown steadily since its inception six years ago, and has established itself as a leader in its field by winning the Eastern Collegiate Debate League Championship three out of four years of membership, as well as by the election of a Technology man to the League presidency last season and this season. The League will include eighteen schools this year.

The Society has the further distinction of being an important part of intellectual life at the Institute in view of the opportunity which it gives for direct oral discussion in matters which extend beyond the field of pure technology.

This season the Society will have approximately twenty varsity and five freshman debates. A few radio meets will be included. It will also sponsor teams in public speaking and debate tournaments.

Bi-monthly meetings are devoted to routine business as well as try-outs and informal discussions. A smoker is held in the fall for new students and prominent speakers are guests at the banquet meetings of the Society.

The Society offers an excellent op-

portunity for new students to take part in debates and public speaking, an activity which is expanding very rapidly at the institute. A cordial invitation is extended to all interested students to become affiliated with the Debating Society at its first meeting of the year. The officers will be very glad to furnish information about debating activities.

### **Dramashop**

**D**RAMASHOP is an organization which gives those students interested in dramatics an opportunity to produce plays. It is supported by the receipts from the plays which are presented each year. Professor Dean M. Fuller is the dramatic coach.

Typical of plays given by Dramashop are O'Neill's "The Hairy Ape", Gogol's "Inspector General", the melodrama "Ten Nights in a Barroom", Sidney Howard's "They Knew What They Wanted", and Galsworthy's "The Pigeon".

Dramashop offers varied work in scene design and construction, lighting, acting, make-up, and other fields of the theater. Announcements of monthly meetings, at which time members are elected, are made in THE TECH.

In addition to theatrical work, there is an opportunity for executive and business administration in

Dramashop. Members are elected after application and proof of ability and interest; no previous experience is required. Positions in cast and stage management are competitive; positions of President and Secretary are elective.

Persons desiring membership or information about Dramashop should apply immediately in Room 2-176, headquarters of the organization.

### **The Combined Musical Clubs**

**T**HE Combined Musical Clubs offer great opportunity for the freshmen as well as for the upper classmen who are interested in music, for openings for any voice or any instrument are to be found here.

Consisting of a well balanced Glee Club and an Orchestra, playing the better-known light classical music, the Club had a most successful season last year. Soloists on specialty instruments are also afforded a place in the programs of the Concerts and Dances throughout the year.

All the work, vocal as well as instrumental, affords much beneficial training for outside concert work, and gives the members of the Clubs social acquaintances among the club members and among the Girls' schools in and around Boston which

we visit and at which we give our programs.

The management of the clubs consists of a Senior Board comprised of a General Manager, a Concert Manager, and the leader of each club, and a Junior Board which includes the Treasurer, an Assistant Concert Manager, and a Publicity Manager. Various assistant positions are open to sophomores and freshmen.

### **Combined Professional Societies**

**T**HE Executive Committee of the Combined Professional Societies was formed in 1921 "to promote general interest in Professional Societies and in their purposes, and to bring the officers of the various societies into closer contact for the exchange of ideas and co-operation on matters pertaining to the societies."

This exchange of ideas and co-operation is accomplished in regular semi-monthly meetings in which general policies applying to all the societies are outlined and all matters of interest to the societies as a group are discussed.

### **Nautical Association**

The Nautical Association is open to all students of the Institute. A new Sailing Pavilion, opposite Walk-



er Memorial, houses the fleet of thirty-six dinghies which is available for sailing every afternoon. Races are held on Saturdays and Sundays, with several prizes offered for Fall, Spring and Summer Series.

There is a Sailing Master in charge of the dinghies who is a well-known yachtsman, having spent the last twenty years sailing nearly every type of boat in intersectional and international races. Also adequate instruction in all phases of yachting is offered in the Shore School, with classes for the novice up to the man with considerable experience who may wish to familiarize himself with some of the finer points of his sport.

Intercollegiate dinghy racing has become very active, with Tech leading in all of the important regattas last year. The Regattas of the Inter-collegiate Yacht Racing Association and of the Boston Dinghy Association were held at Tech, as well as several small meets.

A freshman team was organized, which also had a successful season. The 1938-39 season promises to be even more interesting.

### **M. I. T. Outing Club**

The Outing Club was organized in 1936 to further interest in outdoor activities at Technology. Our program includes fall and spring trips

to various White Mountain regions. Also an enthusiastic group in the Club is taking up rock climbing. During the winter the Club sponsors ski trips and a ski team which competes with other colleges. It is expected that the ski team's schedule will be considerably expanded this coming year. From time to time the Club holds open meetings for the entire Institute at which there are presented prominent speakers and movies on outing and skiing subjects.

The Outing Club is a member of the Intercollegiate Outing Club Association and participates in its weekend trips for all member clubs. Frequent joint trips are held with other college outing clubs also.

Club activities will start soon after the school year begins. Men who are interested in any phase of the Outing Club's activities are strongly urged to get in touch with any of the officers and to come to the Club's first meeting.

### **Technology Open Forum**

The Technology Open Forum is an organization which presents prominent men and important issues to the student body in open forum meetings. The subject may be international, national or local and they usually deal with some vital social question.

After featured speakers have opened the discussion, the students may speak extemporaneously from the floor. The experience gained from such participation is invaluable as well as exhilarating.

The Steering Committee is composed of six men, headed by the Chairman of the Forum. Freshmen are urged to try out for positions on the Committee. Detailed information may be obtained from any of the present committee members or from Professor Theodore Smith of the English Department, faculty advisor.

### **The American Student Union**

The M. I. T. chapter of the American Student Union was formed for the purpose of stimulating and giving expression to progressive student opinion at Technology. It tries to represent the interests of the undergraduate body as a whole.

To this end, it holds discussions of current problems both inside and outside of the Institute, and presents during the year several speakers on topics of interest to the students.

A meeting will be held soon after registration to discuss plans for activities during the year. All interested freshmen are invited to attend.

### **Hobby Shop**

The Hobby Shop is a new and growing part of Technology's recreational facilities. It provides, free of charge, to all students, facilities for metal and wood working, electrical and radio work and several of the more unusual hobbies such as glass blowing and gem polishing. Those who have no hobbies but enjoy creative work as a form of relaxation may receive informal instruction in handicraft or may, if they prefer, work on the exhibits built by the Shop for the Institute.

Students interested in the Shop have done much of the work of building benches and shelves and otherwise improving the facilities. Indeed, the Hobby Shop owes its success to the cooperative attitude and helpfulness of those devoted to it. In order to preserve this spirit, the members instituted last year a guild form of membership, embodying three groups of members, Apprentices, Journeymen and Master Craftsmen. Although membership in the guild is not a requirement to those using its facilities, the Hobby Shop welcomes students interested in joining and serving its organization.

### **Refugee Committee**

The Technology Refugee Committee was organized to give the students of Tech an opportunity to ex-

press their adherence to the principles of democracy through the helping of German Refugee Students. Supported by both the Faculty and students, the Committee has secured the authorization of five scholarships by the Corporation. These scholarships are to go to German students whose educations have been hampered by political conditions in Germany. These students will be selected on the basis of exceptional ability and interest in science or engineering. Plans have been made to make use of some of the scholarships this fall. The committee intends to continue its work until conditions make it unnecessary.

### **Peace Federation**

Out of a temporary Peace Day Program Committee of two years ago, the Technology Peace Federation rose as a permanent organization to foster interest in the vital issues of peace, America's foreign policy, and international relations.

During the first year of its existence, the Federation held four business meetings and four open discussion meetings. The lecture-discussion topics were, "The Czechoslovakian Situation", at which Dr. Karl Deutch, President of the National Czech Student Union, spoke; "Propaganda in America", at which Dr. Carl Friedrich of Harvard lectured; "America's Need for Armaments", at which Brigadier-General

Daly, and Lt. Commander Hoag spoke; and "Wither America's Foreign Policy", at which Dr. Robert Dexter, Director of the Foreign Relations Division of the American Unitarian Society upheld collective security, and Mr. Lewis Corey, noted author and lecturer defended isolation.

In the middle of the school year, the Federation erected a bulletin board in the main lobby. On the board, cartoons and articles, clipped from newspapers and periodicals from all over the world, and pertaining to current events and issues, were posted. The material on the board was changed twice weekly.

The Federation is composed of two elected or appointed delegates from each of the clubs, societies, activities, and residential groups at school. All interested parties are invited to join and aid in the work.

This coming year will see the enlargement of the Federation. In addition to the bulletin board service, and the open meetings, plans are under way for the organization of a monthly discussion group open to all students, at which faculty members, students, and visitors will gather to discuss current international affairs under competent guidance.

## *Clubs*

### **The Association of Women Students**

All women students registered at the Institute automatically become associate members of this organization, and they become active members upon payment of the annual dues. The purpose of this organization is the mutual benefit of all members. At the present time the association is attempting to secure better housing for out-of-town students. An effort is also being made to obtain more locker facilities.

Business meetings are held once a month, and other social affairs such as teas, dinners and dances are given during the school term. The association has its own glee club which meets once a week.

Through the efforts of the association, swimming privileges have been made available to the girls this year. Also available in 1939-1940 will be fencing and rifle-practice, and perhaps some other sports. Tennis and sailing are available to all.

### **Catholic Club**

The Catholic Club was organized to establish a medium of friendly and social intercourse and to promote the practice of and to spread by good example a knowledge of the Roman Catholic Faith at the Mas-

sachusetts Institute of Technology. Being essentially a religious and educational organization its meetings with other colleges and communion breakfasts held during the year and addressed by prominent men provide the occasions for more friendly relationships. Study clubs formed for the purpose of revealing the Catholic viewpoint on subjects primarily religious offer the members an opportunity for individual participation in informal discussions.

Two or three dances held during the year are an expression of the social atmosphere of the club.

### **The M. I. T. Chess Club**

Frequent chess matches, simultaneous exhibitions, and novelty games, besides the opportunity to play chess at all times, are what the M. I. T. Chess Club offers its members. The most popular day for chess play is Saturday, when most members meet to play in the Walker Memorial. Besides the informal play each day, the club's regular monthly meeting feature exhibitions and instruction by nationally known chess masters, and a variety of chess entertainment including rapid transit, kriegspiel, and four-handed chess.

Beginners are taught the rudiments of the game, and as they progress are coached for intercollegiate play. Several matches are scheduled with neighboring colleges each year.



The club's sets and the books in its library may be borrowed by members. The club also has for the use of its players rapid transit timing equipment and a unique triangular bumping board.

### **The M. I. T. Chemical Society**

The M. I. T. Chemical Society is an organization designed to give to Institute students interested in chemistry the opportunity to meet with others of similar interests and to see how chemical problems are handled outside the classroom.

At the monthly meetings the society is addressed either by members of the faculty or by speakers interested in some phase of industrial chemistry. There are frequent plant trips during the school year to nearby manufacturing companies. Notices of meetings are posted on the bulletin boards around the Institute and are also inserted in THE TECH.

All freshmen interested in chemistry are given the opportunity to join the society at the Chemical Society booth in the main lobby on Registration Day. All those joining automatically become Student Affiliates of the American Chemical Society.

### **The M. I. T. Bible Study Group**

The M. I. T. Bible Study Group was formed to bring together Chris-

tian students for the study of the Bible. It is a non-denominational organization whose fundamental belief is that the Bible is the inspired Word of God. Students of different denominations are members. Meetings are held once a week, and all students, faculty members and officers of the Institute are welcome. A few special meetings with special speakers are held each year.

### **Chinese Students' Club**

Founded in 1916, the Chinese Students' Club serves to delegate the majority opinion of the Chinese Students at the Institute, to develop their interest in activities, and to keep them in contact with the activities of Chinese students in other parts of the world. Informal suppers, occasionally addressed by prominent persons, combined meetings with other organizations, and athletic contests are among the regular activities.

All Chinese students at M. I. T. are automatically members of the Club. The officers, consisting of the president, a secretary, a treasurer, and a manager are elected annually forming the executive committee.

### **Christian Science Organization**

The Christian Science Organization of the Massachusetts Institute of Technology was formed in 1921

to unite Christian Scientists entering the Institute and within the Institute in close bonds of Christian fellowship. Regular meetings are held twice a month open to all students, faculty, and officers of the Institute. The purpose of the organization is to afford those desiring, the opportunity of learning the truth about Christian Science as taught in the Bible and in "Science and Health with Key to the Scriptures" by Mary Baker Eddy. In conjunction with the regular meetings one free lecture on Christian Science is given, to which all are cordially invited.

### **5:15 Club**

The 5:15 Club, originally formed five years ago as the Commuters' Association, which had as its purpose, the bringing together of the commuting students in social and fraternal contact and the development of their interest in undergraduate activities, is one of the youngest and yet one of the largest and most active of the undergraduate organizations at the Institute. In its short existence it has enjoyed unparalleled growth and now boasts of close to four hundred members, with a substantial increase every year.

Membership in the Club is open to all students who do not live in the dormitories or the fraternity houses. In addition, local clubs have been formed of members in the

various districts of greater Boston. The club is managed by an executive committee composed of a president, vice-president, secretary, treasurer, and two members-at-large, and a board of directors composed of the chairmen of the several local clubs.

Because of its remarkable growth and the success of its purpose the club was accorded the use of a room in Walker Memorial for the combined uses as a lunchroom, study room reading room and social room.

Several large dances were given last year, outstanding of which were the New Year's eve masquerade and the post examination moonlight sail aboard the steamer "S.S. Town of Hull" in June, both of which have become annual events.—Other events were a fathers' and sons' night at which club members and their dads enjoyed dinner and sports events as well as recreation together; the conduction of a bowling tournament among several of the local clubs, the winner of which competed against the outstanding dormitory and fraternity teams; and participation in squash racquets, tennis and basketball tournaments.

### **Tech De Molay Club**

The Tech De Molay Club was organized in 1937 to bring together De Molays at the Institute. Through bi-monthly dinner meetings the fellows become acquainted and meet

the Masons at the Institute, who are frequent guests. In the past, degree work has been performed for the MacLaurin Lodge of M. I. T. Masons. All interested incoming De Molays are invited to join at the De Molay booth in the lobby on registration day.

### **Mathematical Society**

The Mathematical Society, formed early in 1939, is one of the newest clubs at Tech. To its members the Society offers discussions, problems, and social functions. Subject matter, while fairly advanced, is still of interest to all; and it does not interfere with the regular school curriculum. Among subjects considered this year were "The Calculus of Variations", "Theory of Numbers", and "'K' Numbers", all delivered with the cooperation of the faculty. Opportunity to join will be given in the main lobby on Registration Day.

### **Menorah Society**

The Menorah Society has for its primary purpose the fostering of closer relationship between the students of Jewish faith at the Institute. The society is not connected with any temple or institution, but conducts all of its own discussions meetings, and social affairs.

The M. I. T. chapter is affiliated with the Greater Boston Council of

Intercollegiate Menorah Societies, which comprises chapters at Simmons, Radcliffe, Teacher's College, Portia Law School, Emerson, Harvard, Tufts and M. I. T.

This group conducts several intercollegiate dances during the year in which members of all chapters participate. In addition, debates and discussions between the chapters on topics of current religious interest are sponsored.

Tech's chapter has rapidly grown in size and interest since its institution several years ago until it is now one of the strongest in the intercollegiate body. Opportunity to join is given to entering men on Registration Day.

### **M. I. T. Radio Society**

The M. I. T. Radio Society offers an opportunity for those students who are interested in amateur radio to continue their hobby while at the Institute. The Society is an affiliated club of the American Radio Relay League and is the oldest college radio club in the United States.

All members who hold amateur operator's licenses are entitled to operate the Society's station, W1MX. The radio "shack" is located in a small building between the track house and the hangar gymnasium. Over sixty countries have been contacted by the club station. At pres-

ent there are four crystal-controlled transmitters operating in the ten, twenty, forty, and eighty meter bands respectively. The ten meter phone transmitter has 150 watts input. The twenty and forty meter transmitters operate with 250 watts input, while the eighty meter transmitter uses 100 watts. The transmitters are all panel mounted and can be operated at will from the operator's position. A nine tube superheterodyne receiver is used for reception. A code practice oscillator and a frequency meter-monitor are also available at the operator's position.

Speakers address the society on topics of general interest at the regular meetings, notice of which appears in *THE TECH* and on the Radio Society bulletin board near room 10-250.

All freshmen amateur radio operators and other interested are requested to get in touch with the Secretary (in the Dorms) immediately after school starts.

### **Unity Group**

The purpose of the Unity Group is to bring together Unitarians, Universalists and other religious liberals both for the study of liberal religion and its application to personal and social living. Two dinner meetings and two discussion meetings are held during the school

year in alternate months beginning with the third Wednesday evening in October.

The Group also cooperates with the Unity Groups in the other Greater Boston colleges in holding two All-Unity Conferences, seven Town and Gown Dances (in Brattle Hall, Cambridge) and in promoting other activities of the Unitarian-Universalist Student Council. It also cooperates with the Unitarian and Universalist Sunday Evening Student groups in Boston and Cambridge. The regional director and adviser of the Unity Group is the Rev. William H. Gysan, 25 Beacon Street, Boston.

All religious liberals at M. I. T., are invited to the Unity Group meetings and activities. Commuters particularly are urged to avail themselves of these opportunities to become better acquainted with the resident students.



## *Athletics*

### **M. I. T. A. A.**

**T**HE M. I. T. Athletic Association consists of the captains and managers of recognized athletic teams at the Institute, together with the Publicity Managers, and the three undergraduate members of the Advisory Council on Athletics.

At Technology, the athletics are under the direct control of the students and not under a paid athletic director as in the case of many other colleges. The Athletic Association's function is to promote and supervise athletic interests at the Institute. Inasmuch as the M. I. T. A. A. has supervision over athletics at Technology, the managers and assistant managers of all athletic teams are directly responsible to that body.

Anyone who desires to enter the managerial competition of any sport should report at the opening of school to the manager of that sport at the M. I. T. A. A. office on the third floor of Walker Memorial Building. The managing of a sport offers excellent opportunity for those not athletically inclined to become connected with some sport and thereby make an enjoyable association with that team. Those who enter the competition for manager in their Freshman year continue until the Varsity manager is chosen in the Junior year. There is also

opportunity for Sophomores to enter the competition and be chosen as manager in the Junior year.

The Executive Committee of the M. I. T. A. A. awards all class numerals and passes upon and recommends all other insignia awards to the Advisory Council on Athletics, which awards them. Besides the regular sport awards, the "Straight T" is given to athletes of outstanding ability.

This coming year the activities of the Publicity Department of the M. I. T. A. A. are to be greatly enlarged. This department will handle the publications of all data concerning the teams of M. I. T., publicity of the various athletics, and outstanding men of sports. Excellent opportunity is offered in this department to become acquainted with all of the sports and many of the athletes. Positions are at present open for two sophomores and four freshmen. Anyone inclined to photography is especially urged to report. Apply at the M. I. T. A. A. office.

### **Freshman Athletic Requirements**

Faculty regulations require that all freshmen take Physical Training. This consists of two hours per week of calisthenic in the gymnasium during the last ten weeks of the first semester and the first ten weeks of the last semester. Sports

may be substituted for the gym work only by seeing the Physical Director in Walker . . . and signing up for the desired sport. Attendance at the sports is compulsory three times a week in the afternoon after school and not in the periods reserved.

### **Basketball**

**B**ASKETBALL is one of Technology's leading winter sports. Both Varsity and Freshman teams are maintained under the supervision of a competent coaching staff. The Varsity meets the leading colleges of the East, while the Freshmen play the prominent preparatory schools and college Freshman teams of New England.

A call for all men interested in basketball is made soon after the opening of the school year. Practice for both Varsity and Freshmen begins immediately after Field Day, with the first scheduled games being played about the middle of December. The season terminates about the first of March.

Freshmen may substitute basketball for the required physical training. There are also openings for four live Freshmen for the managerial staff.



CREW RACE

### Crew

**T**HE object of crew at Technology has always been to give the maximum number of men an opportunity to participate in a healthful, enjoyable sport, and to develop varsity crews of recognized ability in intercollegiate competition. This is a sport for which everyone can go out. If one weighs over 160 pounds, there are the Freshman Heavies, the Varsity and the Junior Varsity. For men less than 155 pounds, there are the Freshman and Varsity 150 pound crews, and for those less than 125 pounds, there is the position of coxwain.

Practice begins for all candidates immediately at the beginning of the school year at M. I. T. Boat House, which is a short distance up river from the Institute. The Freshmen and Sophomores begin organized practice for the Field Day race. The Varsity Squad also begins practice, which continues on the river until cold weather drives them in to work in the rowing machines in the boat house. The Freshmen and Varsity squads both work on the machines during the winter in preparation for spring practice. As soon as possible in the second term, the squads go out on the river in lapstreaks, and finally in the shells.

In the past years, crew has proven itself to be one of the most popular sports for incoming freshmen. It

may be substituted for the required physical training. The size of the squad is never diminished; each man who comes out for crew is assured of recognition and the opportunity of rowing in a shell.

The boathouse is adequately equipped to take care of over one hundred and fifty men. There are separate locker rooms and showers for the Varsity and Freshmen crews. The new equipment, purchased each year, usually includes one or two shells and sets of oars.

### **Cross Country**

**C**ROSS Country is one of Technology's leading fall sports. It offers a remarkable opportunity for helpful, energetic recreation directed towards the benefit of the individual and Technology's athletics. As might be expected, most of the Cross Country runners are regular track men who take advantage of the opportunity to train for the distances.

Practice begins directly after the opening of school in the fall and continues until the last of November. All men out for the Varsity and Freshmen teams should report to Coach Hedlund as soon after registration day as possible. Freshmen interested in the management aspect should report the first week of school.

Next year's schedule will consist of meets with the following schools: Conn. State, Mass. State, Yale at New Haven, Tufts, and Northeastern. The Cross Country team will also compete in the N. E. I. C. A. A. meet, and will go on to Van Cortland Park in New York City for the I. C. A. A. A. A. meet.

### **Gym Team**

**G**YM, which has become one of the more popular collegiate winter sports, has completed a very successful season at the Institute. The team is fortunate in having for practice Walker Memorial Gym, which is one of the best equipped in collegiate circles. The coach has been a trainer for three U. S. Olympic Gym Teams, and has also been a recognized Intercollegiate Gymnastics Judge for several seasons.

Four years ago a freshman team was organized and allowed to participate in several meets. Proving itself to be very worthwhile, freshman gym will continue to promote better men for the varsity because of individual attention offered.

Candidates may substitute gym for the compulsory physical training as practice begins immediately after registration and continues into the second term.

### Swimming

**T**HE past several seasons have shown that swimming can be successfully conducted as an all-year sport and candidates can now devote both terms to it. The first call for Varsity and Freshman material will be made immediately after Field Day. Previous experience is by no means necessary for some of Technology's best swimmers and divers have developed from inexperienced men. Each candidate is given individual attention by the coach in his own event. Practice will be held in the excellent University Club pool three times each week.

The Freshman Team meets preparatory schools and college Freshman teams of New England. Swimming may be substituted for the required gymnasium work during the entire school year or for either term.

### Hockey

**T**HE men interested in a real active sport that provides plenty of thrills, action, and keen competition will find in hockey just what they are looking for. Everyone is eligible to try out for the team and most of the men who eventually play hockey for M. I. T. have had little previous experience. Hockey is at present a minor sport at secondary schools and comparatively undeveloped so that any of you fellows who like to skate and



have handled a puck should come out to take advantage of the expert training of Coach George Owen, formerly of the Boston Bruins, who develops every man to the point where he is eligible to play hockey for M. I. T. For the coming season, matches with Boston College, Northeastern University, Brown University, Dartmouth College, New Hampshire University, Boston University, Middlebury College, Colby College, Bowdoin College, and Williams College have been scheduled. The team will also enter in the Lake Placid Tournament at Lake Placid. The schedule is so arranged that the varsity meets all the members of the New England Intercollegiate Hockey League of which we are a part and every year there is at least one long trip away which always proves interesting.

Practice will begin in the indoor track house about the middle of September where anyone interested can practice "lifting the puck off the ice" preparatory to going on the ice the first week in October. Regular practices are held at the Boston Arena which affords an excellent opportunity for the development of the individual men and the teams.

The freshman practice with the varsity in preparation for the varsity in coming years. Coach George Owen always devotes a lot of time to coaching the freshmen. If enough interest is shown, there will be a freshman schedule this year. The

competition for managerial positions is open to all freshmen.

### **Tennis**

**T**HE management arranges a Fall Tournament for the undergraduates in the Institute. The Tournament is run in two divisions, one for freshmen and one for the upperclassmen. The winner in each division receives a replica of the Fall Tournament Cup.

Freshman squad begins practice on the Coop courts in the Spring as soon as the weather permits. The Varsity practices on clay courts either in Cambridge or at various clubs on the outskirts of Boston, and has matches with the leading colleges besides entering the New England Lawn Tennis Association matches. The Freshmen meet the best college freshman and preparatory school teams in New England.

### **Fencing**

**F**ENCING is one of the popular winter sports at the Institute. It is a sport which will develop co-ordination of mind and muscle as well as give much enjoyment to the participants. Practice, which is held in Walker Memorial Gymnasium, begins directly after Field Day and continues until April. All candidates should report to the coach at the first practice in

order that the team may obtain an early start. Work includes practice in the foils, epee, and sabre.

The Varsity meets the better Eastern colleges while the Freshmen fence the leading freshman and preparatory and high school teams.

Those desiring to compete for positions on the managerial staff, may do so by leaving their names in the A. A. office directly after the opening of school.

### **Wrestling**

**W**RESTLING has now become one of the most important sports at Technology, keeping pace with the growth of its popularity all over the country. Both the Varsity and the Freshman teams meet some of the best schools in the East.

Wrestling offers a variety of opportunities as there are eight classes, ranging from 121 pounds to unlimited. Everyone can find a suitable place for himself. Experience is not essential for the coaching is arranged to teach fundamentals. The substitution of this sport for the required physical training not only offers an enjoyable exercise, but also is of great assistance in all-round physical development. Practice begins directly after Field Day and is held in the Hangar Gym.

### Soccer

**S**OCCKER, in its twelfth season of supporting a varsity team, is one of the most popular fall sports at Technology. Practice begins about one week before school opens and leads up to the first game of the season with increasing intensity. Spring practice of a light nature is held during April in order to line up material for the coming season. Soccer facilities will be expanded by the Fall of 1939 with the opening of a new Track House and a new Soccer field adjacent to the House.

A Freshman team is maintained and it has chalked up creditable records in the past. The coach is one who knows the game and his players.

### Rifle Team

**T**HE range facilities provided at the Institute are excellent and rifle shooting is one of the coming winter sports at Technology. The Team is a member of the National Rifle Association and of the Intercollegiate League which is sponsored by the New England College Conference.

The varsity schedule includes the best teams in the East while the Freshmen have a similar schedule with the best freshman and preparatory school teams. The R. T. R. is awarded to members of the var-

sity as well as the T-crossed rifles to certain high standing men of the Intercollegiate Team. Any member of the Intercollegiate Team who demonstrates ability over and above the requirements for the T-crossed rifles is eligible for the straight T. Members of the freshman team receive class numerals.

The first call for candidates will be issued about the first of November and practice, which is held at the rifle range near the cinder track, will continue through the winter until the last of March.

### **Squash Racquets**

**I**N spite of the fact that Squash Racquets has heretofore been played almost entirely in exclusive clubs, it is one of the most popular sports at the Institute, both among the students and among the faculty. There are many fine courts available throughout the day and evening, and the services of the coach, who has won the National Championship five times, are available to all.

Most of those who play Squash Racquets at Technology, and over half of the members of the Freshmen teams, have never played before entering the Institute. Therefore it is very advantageous for those who have had some experience in the game, as well as those who have never heard of it, to become acquainted with the coach and start practicing early in the term for the Freshman matches.

A fine schedule of matches is played with leading clubs from around Boston as well as with the outstanding college teams. There are also quite a few intra-mural tournaments that are open to all. The courts are free to everyone, so why not learn a game that can be played regularly in later life.

### Lacrosse

**L**ACROSSE, a new sport at the Institute, was granted official recognition in 1930. The Varsity schedule includes the best teams in the East while the Freshman schedule is arranged with college freshmen and preparatory school teams.

Lacrosse is a fast and interesting game of Indian origin. There are ten men on a team. The coach is desirous of having as large a Freshman squad as possible for future varsity material.

Coaching in handling the stick and the fundamentals of the game will be given during the fall to prepare inexperienced men for the squads when they meet in the spring.

Lacrosse last year gained recognition as a substitute for physical training during the spring.

### Golf

**F**OR the ten men who comprise the varsity golf squad, and for the four men on the freshman team, golf provides an enjoyable and interesting spring sport.

Unfortunately, time and equipment are not sufficient to allow the teaching of beginners, but adequate practice facilities are provided for the men who learned the game before coming to Tech. These include playing privileges at Oakley Country Club, and an arrangement with a near-by driving range which allows the men to hit away all they choose.

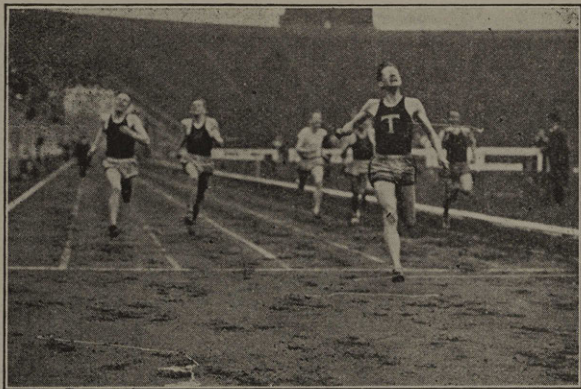
The Varsity schedule includes eight matches starting near the middle of April, and extending through the last of May. A tournament is held each fall, and the team participates in the New England Intercollegiate Golf Tournament held each spring.

It has been found advisable to have a playing manager, so managerial candidates are judged on their golfing, as well as executive, ability.

### **Track**

**T**RACK occupies an important position in Institute athletics. It is one of the largest sports, in terms of the number of competitors, and also one of the most successful in its intercollegiate competition. Besides a yearly quota of new M. I. T. track and field records, in recent years the Institute's Varsity and Freshman teams have been especially successful in their meets with other colleges. In the Spring season of 1938 both teams were undefeated in their dual meets and this record was kept intact until the last meet of the 1939 season.





RICHARD BELL, '34  
Making Institute Record in 220-Yard Dash 21 4-5 Sec.



Technology is fortunate in having a new quarter mile cinder track, a modern field house, both built in 1939, and a 12 lap board track.

A large number of Freshmen take advantage of the opportunity to substitute track for physical training throughout the 20 weeks which this course is required. During the Winter the "P. T. Competition" is held especially for them consisting of an individual prize competition in a group of track and field events.

A number of handicap meets are held throughout the year which aim to give equal chances to all competitors irrespective of ability. There are also interclass meets in which the classes compete as teams.

Besides these various intermural activities the Varsity and Freshman teams offer opportunities for inter-collegiate competition.

The Varsity enters relay teams and a few individuals in the B. A. A., K. of C., and Millrose Winter meets where they run such colleges as Colgate, Columbia, Cornell, Princeton, Tufts, and Yale. In the Spring the entire team starts its season of three dual meets and the N. E. I. C. A. A. A. and I. C. A. A. A. A. meets.

The Freshman team has several indoor dual meets in the winter and also enters a relay team in the K. of C. and B. A. A. meets. In the Spring season it usually has four dual meets. In 1939 they entered and won the medley relay at the N. E. I. C. A. A. A. meet,

## VARSITY TRACK RECORD

| Event            | M. I. T.<br>Record | Holder          | Year<br>Made | N.E.I.C.A.A.A.<br>Record | I. C. 4A.<br>Record |
|------------------|--------------------|-----------------|--------------|--------------------------|---------------------|
| 100-yd. dash     | 10 s               | H. H. Guerke    | 1932         | 9.8 s.                   | 9.6 s.              |
| 220-yd. dash     | 21.8 s.            | J. E. Kearns    | 1932         | 21.4 s.                  | 20.9 s.             |
| 440-yd. run      | 50 s.              | R. Bell         | 1924         | 48 s.                    | 47 s.               |
| 880-yd. run      | 1:55.0             | R. Bell         | 1925         | 1:54.4                   | 1:51.2              |
| One-mile run     | 4:23.2             | D. P. Jeppe     | 1936         | 4:18.6                   | 4:11.2              |
| Two-mile run     | 9:28.6             | G. J. Leness    | 1932         | 9:29                     | 9:21.2              |
| 120 high hurdles | 15.2 s.            | Steinbrenner    | 1927         | 14.6 s.                  | 14.4 s.             |
| 220 low hurdles  | 23.9 s.            | Steinbrenner    | 1927         | 23.8                     | 22.8                |
| Shot put         | 44 ft. 1 in.       | B. Grondal      | 1931         | 51 ft. 6 5-8 in.         | 53 ft. 2 3-4 in.    |
| Hammer throw     | 158 ft. 6 in.      | G. G. Dandrow   | 1921         | 175 ft. 3 in.            | 181 ft. 6 1-2 in.   |
| Discus throw     | 133 ft. 6 in.      | J. R. Graham    | 1936         | 154 ft. 1 in.            | 163 ft. 7 3-8 in.   |
| High jump        | 6 ft. 3 in.        | J. R. Thompson  | 1935         | 6 ft. 4 1-4 in.          | 6 ft. 6 5-8 in.     |
| Broad jump       | 24 ft. 2 in.       | S. T. Johnson   | 1935         | 24 ft. 6 in.             | 25 ft. 3 1-2 in.    |
| Javelin          | 193 ft. 4.8 in.    | J. R. Robertson | 1931         | 199 ft. 7 1-2 in.        | 223 ft. 1 1-4 in.   |
| Pole vault       | 12 ft. 9 in.       | L. M. Sanford   | 1925         | 13 ft. 6 3-4 in.         | 14 ft. 5 1-8 in.    |

1 mile indoor relay—M. I. T. Record—3:29.2 Fogliano, Faatz, Sabi, Cooper—1937

## M. I. T. FRESHMAN TRACK RECORDS

| Event            | Holder            | Year Made | Record           |
|------------------|-------------------|-----------|------------------|
| 100-yd. dash     | J. S. Weibe '27   | 1924      | 10.2 s.          |
| 220-yd. dash     | R. Bell '34       | 1931      | 22.4 s.          |
| 440-yd. run      | A. D. Smith '23   | 1920      | 50.6 s.          |
| 880-yd. run      | E. J. Brady '42   | 1939      | 1:59.0           |
| One-mile run     | H. H. Guerke '37  | 1934      | 4:32.0           |
| 120 high hurdles | S. T. Johnson '36 | 1933      | 16.2 s.          |
| 220 low hurdles  | A. C. Faatz '37   | 1934      | 25 s.            |
| High jump        | J. R. Thomson '37 | 1934      | 6 ft. 7-8 in.    |
| Broad jump       | S. T. Johnson '36 | 1933      | 22 ft. 2 1-2 in  |
| Pole vault       | P. G. Barbey '41  | 1938      | 11 ft. 9 3-8 in. |
| 12-pound shot    | J. J. Nagle '41   | 1938      | 49 ft. 8 3-4 in. |
| 12-pound hammer  | F. Glantzberg '27 | 1924      | 162 ft. 4 in.    |
| Discus           | P. Hardy '31      | 1928      | 125 ft. 6 in.    |
| Javelin          | J. F. Sexton '41  | 1938      | 180.95 ft.       |

### *Honorary Societies*

**Agenda.** A Sophomore honorary society to promote closer relations between the two lower classes in the dormitories.

**Alpha Chi Sigma.** Honorary chemical fraternity. Members picked from the chemical courses.

**Alpha Phi Omega.** The national honorary Scouting fraternity. The local chapter, Alpha Chi, has been organized in order that former Scouts may continue their work in Scouting at Technology. It is a service organization, having among its activities assistance to local Scout councils, a guide service about the Institute, and week-end camping trips for members. Membership is open to those who have previously been active in Scouting.

**Baton.** Honorary Society of the Musical Clubs. Membership extended to those who have rendered exceptional service to the Clubs.

**Beaver Key Society.** A junior honorary society. This organization acts as official host to visiting athletic teams, and conducts the intra-mural athletic program. Members are chosen from outstanding managers, athletes, and men from other activities. Additional members are elected at large from the Junior class.

**Beaver Club.** Junior Honorary Society. Members chosen from the

leaders of the Sophomore Class on both an activity and a social basis.

**Chi Epsilon.** National Honorary Civil Engineering fraternity for juniors and seniors who are scholastically in the upper third of the class.

**Dorclan.** An Honorary Society for upper classmen in dormitories. Its purpose is to further dormitory activities and aid all undergraduate Institute proceedings.

**Grogo.** The Honorary Society of Technique. Membership awarded for exceptional service on the managing board.

**Hexalpha.** Honorary Society of Course VI-A. This society serves as an executive committee for undergraduate activities in this course.

**Osiris.** Honorary Senior Society. Members chosen because of their exceptional service to the undergraduate affairs of the Institute.

**Gridiron.** Local honorary journalistic society devoted to the advancement of journalism at Technology. Members are selected from outstanding representatives of the four major publications.

**Quadrangle Club.** Honorary Sophomore-Freshman Society. An organization to promote closer relationships among the under classes. In charge of Freshman Rules. Mem-

bers chosen from the activities men of the Freshman Class.

**Scabbard and Blade.** National Honorary Military Fraternity whose members are chosen from Regular Army, Reserve, and advanced R. O. T. C. officers who have proven their ability to act as leaders.

**Scroll.** Honorary Society of the Tech Engineering News. Its members are men who have distinguished themselves on this publication.

**Sigma Xi.** Honorary Society for encouragement of original investigation in pure and applied science.

**Tau Beta Pi.** A national honorary fraternity for engineering schools. The highest award attainable at Tech. Picks its members on a scholastic basis with activity requirements.

**Tech Boat Club.** Crew Honorary Society. Members are chosen for their part in the advancement of rowing at the Massachusetts Institute of Technology.

**Tech Swim Club.** The purpose of the club is to enliven interest in swimming at Technology, to advance it as a sport, and to bring together those men at Tech that are interested in seeing this sport prosper.

Members are chosen from the swimming squad who show eager-

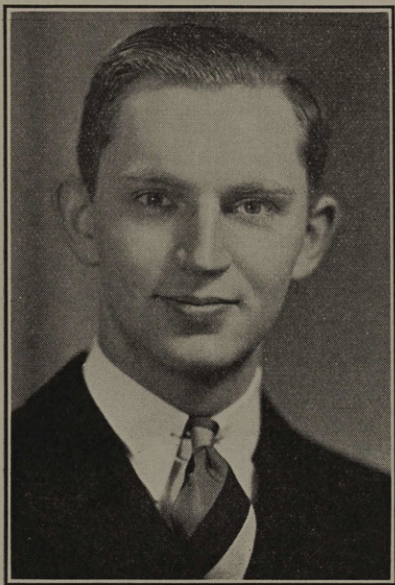
ness and enthusiasm in swimming and who meet certain requirements of character.

The Club handles the Freshman Rally, the annual inter-class meet, and, this year, may attempt a swimming meet for individual Tech championships in the divers events. It hopes some day to see a pool at M. I. T. and does everything to stir up action for obtaining one.

**Track Club.** Honorary track society. Members are chosen for their part in furthering the cause of track at the Institute, and in recognition of their faithful work and interest in track.

**Walker Club.** Senior Social Club. Membership chosen from the activity high-lights of the Junior Class.

**Woop Garoo.** Honorary Society of Voo Doc. Chooses its members for service on the board of this publication.



WILLIAM H. HAGENBUCH  
President, Technology  
Christian Association



## THE TECHNOLOGY CHRISTIAN ASSOCIATION

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The Technology Christian Association aims to be of practical service to every student at the Institute to help every man live up to the best that is in him and to help Technology realize her highest ideals. It is commonly known around the school as the "T. C. A." and has the reputation of being one of the leading organizations of its kind in the country. It is strictly a student service organization and is in no way connected with the State Y. M. C. A. Although much religious and social work is done in connection with the functions undertaken by the Association an emphasis is placed on rendering service to the school and offering assistance in every way possible to anyone who is in need of it. In the following summary may be found a list of the numerous departments into which the work of the Association is divided.

The work of the Association is financed by the contributions of the undergraduates. There is no membership fee, but every undergraduate and faculty member is given a chance to contribute in the fall of each year during the annual drive. The Advisory Board maintains the secretaries and office assistants, and advises regarding the organization's policies. Active direction of the As-



THE WALKER MEMORIAL

sociation's affairs, however, is in the hands of the Executive Committee and the Cabinet.

### **Advisory Board**

Percy Rolfe Ziegler, '00, Chairman; Wolcott A. Hokanson, Treasurer; Dr. John W. Chamberlain, '28; Leicester F. Hamilton, '14; Carle R. Hayward, '04; Egon E. Kattwinkel, '23; William H. Timbie.

### **Executive Committee**

President, William H. Hagenbuch, '40  
Vice President, James E. Fifield, '40  
Secretary, William R. Taylor, '40  
Treasurer, James J. Shipman, '40

### **Employment Bureau**

Mr. Pennell N. Aborn  
Employment Secretary

**S**TUDENT employment at the Massachusetts Institute of Technology is directed by the Student Employment Bureau, which is a division of the Technology Christian Association. The Bureau endeavors to arouse and maintain the interest of employers, both industrial and individual, so that Technology students will be employed when part time positions are available.



PENNELL N. ABORN  
Employment Secretary

While Technology students, because of their training, may take advantage of opportunities not available to students of other institutions in this locality, it must be emphasized that most of these positions are available only to upper classmen, so that the prospective student should not anticipate employment of a character much different than is obtained by first year men in other universities.

It is well to realize that competition for available positions is very keen among the students of the many educational institutions in the vicinity of Boston. This condition results in less demand upon any one school, acts as a barrier to high wages and makes the position of the job-holder more precarious.

While early correspondence about employment is invited, it is extremely doubtful that a definite decision can be made before arrival in Cambridge.

The work of the first term is an important foundation for the rest of the curriculum and prospective students are advised to have sufficient funds to cover at least the expenses of the first school year. If parents can possibly pay the expenses, the student should not be required to earn his way as self-support is a handicap and if, unnecessary, deprives a really needy student of his livelihood.

## **TREASURY DIVISION**

### **Undergraduate Drive**

Chairman, Albert H. Bowker, '41

Every year, in order to meet the expenses of its undergraduate activities, the T. C. A. conducts a drive. This is carried on among the students of the Institute and all those who are able contribute.

### **Ticket Service**

Director, Robert H. Crosby, '42

A ticket service has been maintained by the T. C. A. for the past five years. Tickets may be obtained for all theatres at box office prices, thus saving a student the trouble of going to the theatre for them.

During the football season, tickets to all home games played by Harvard may be obtained here.

Before the Christmas holidays the different railroads, steamship and bus companies send agents to the T. C. A. office to sell tickets to the students.

### **Book Exchange**

Director, Robert K. Osborne, '42

The T. C. A. maintains a book exchange where students may leave second-hand books, drawing boards, instruments, etc., for sale at two-

thirds the original price paid. Here may be purchased many books required by courses at the Institute.

## **OFFICE DIVISION**

Manager, Williard S. Mott, '41  
Information Director,

Willard S. Mott, '41

The information cards which are filled out by freshmen and transfers, and which may be seen by activities, fraternities, etc., are in charge of this department. A time table rack in which time tables of about fifty different roads are kept is always under this department's supervision. Clippings and pictures of current interest, as well as the daily movie programs, are posted in the bulletin board outside the office door. Any and all questions regarding Technology life may be referred to this department.

## **Room Registry**

Director, Richard R. Hydeman, '42

For those students who do not wish to live in the dormitories or at a fraternity house, the T. C. A. maintains a list of available rooms near the Institute. Rooms in Boston and Cambridge are inspected in an effort to collect all possible information regarding them and those letting them. For the days immediately preceding and following Registration Day this service will be given at the left of the lobby in Walker Memorial.

## **Advisory Board Solicitations and Advisory Board Receipts**

Directors,

Warren H. Powers, '42

Kenneth J. Radimer, '42

The money received from the Undergraduate Drive is used for undergraduate activities. This money does not go to pay the salaries of the General Secretary, Employment Secretary or Office Secretary. To collect the necessary money for this purpose a solicitation of the faculty, parents of freshmen and alumni is carried on.

### **MEETINGS DIVISION**

Manager, John C. Potter, '41

#### **Meetings**

It is the duty of this department to represent the T. C. A. at meetings of organizations with which we have a common purpose, and more important, to schedule meetings of its own to which speakers are invited who have something of value to offer the students. The Technology Embassy, inaugurated three years ago, comes under this classification. It consists of a lecture of a religious nature, given by some prominent religious leader, which is followed by the visit of each clergyman to each participating fraternity for supper and a "bull session" afterward. Dormitory and commuting students also take part.



Another of the major events given primarily for the benefit of the students is the annual series of marriage lectures. The past year eight lectures in all were given, four of which were delivered by Professor F. A. Magoun, of the Humanities Department. The series covered every phase of the preparation for marriage which might confront the average Technology student. The immense popularity of this project makes it one of the most important services of the T. C. A.

### **Conferences**

Director, Lester W. Gott, '41

Throughout the year a number of conferences are held to which Tech always sends a delegation. The Conference Department organizes these delegations.

Besides numerous small gatherings there is the Annual Student Christian Movement Conference. This conference is a co-educational intercollegiate gathering to which all of the colleges in New England send delegates. In the past Tech has been well represented, and we hope that it will continue to be one of the leaders at the conference.

### **Church Relations**

Director, Robert C. Evans, '42

T. C. A. does not aim to set up a definite religious organization, but rather to have its organization be

an ally of the churches. The Church Relations department hopes to assist students who so desire to become student members of churches and those who already are by posting church bulletins throughout the Institute, dormitories and fraternities. This department further desires to be of assistance to the student groups by helping them to meet the students of their faith, by obtaining faculty members to speak and, in general to help the church in making relations with the student body.

### **Speakers Bureau**

Director, Bernard W. Moulton, '42

The Speakers' Bureau serves in a double capacity. First, it provides undergraduate, graduate, and sometimes faculty speakers for many types of groups, some of which are connected with the Institute, and others, such as the Y. M. C. A., which are not connected with M. I. T. Second, it offers students an opportunity not only to express their views but also to learn how to speak before various groups, which is of great value in later life. This work offers a fine opportunity to meet people and to develop poise.

### **Foreign Students**

Director, Allen G. Quynn, '42

Tech has one of the largest groups of foreign students of any institu-

tion in this country. Last year there were 240 students in attendance, representing 40 different countries. The object of this department is to help the students get acquainted with each other and with the Institute as well as to secure their services upon the request of other organizations. Personal interviews and group get-togethers help to accomplish this and bring them into close contact with the rest of the student body.

### **BOYS' WORK DIVISION**

Director, Walter C. Kahn, '40

Co-Directors

Joseph H. Greenberg, '40

W. Hoover Shaw, '42

Charles B. Ruckstuhl, '42

Secretary, Charles B. Whitney, '41

The T. C. A. Boys' Work department attempts to interest Tech men, particularly the freshmen, in leading boys' clubs in settlement houses, Boy Scouts, etc. in Greater Boston. College men represent a different world which will greatly influence the characters of the boys, inspiring in them high ideals and ambitions, and thereby performing the greatest social service. Volunteers get from this interesting work first-hand experience in developing leadership qualities, an insight into modern social problems and the immense satisfaction of helping others.

During the past year, the Boys' Work Division has risen to top

place among the T. C. A. activities and has one of the largest organizations at M. I. T. Six men represent the division on the cabinet; and at present, fifty others are doing work in thirteen settlement houses. The division has expanded to include the Tech Co-eds, several of whom are now doing active work. Information is exchanged among the members through a semi-monthly report by each man and by the monthly bulletin which is sent to all members. The value of personal initiative is stressed in all of the work, thus developing both the boy and the worker to the fullest.

## **FRESHMAN ORIENTATION DIVISION**

Manager, Sam Fry, '41  
Freshman Camp  
Director, Sam Fry, '41

Freshman Camp offers the incoming class the only orientation program at Technology. During the pleasant week-end, the Freshmen meet the heads of all leading sports and activities and faculty members who are of immediate interest to them. A more detailed account has been rendered in a preceding article.

## **Tech Cabin**

Director, Henry N. Titzler, '42

The Tech Cabin was built at Lake Massapoag, approximately 36 miles



TECH CABIN

from Tech, at a cost of \$6,000 by the T. C. A. Each fall the Cabin is used as headquarters for Freshman Camp. During the school year groups numbering up to thirty drive up to the Cabin to spend the weekend. The Cabin was built to be used by Tech students and may be reserved by any group applying at the T. C. A. office.

### **Freshman Advisors**

Director, John M. Wheeler, '41

Before coming to school, freshmen receive letters from their advisors. The latter wish to help the new men get started in their strange surroundings, and make their first few weeks as pleasant as possible. If freshmen have any problems these are the men to consult.

### **PUBLISHING DIVISION**

Manager

Sterling H. Ivison, Jr., '41

#### **The Handbook**

General Manager

Sterling H. Ivison, Jr., '41

Editor

Robert O. Davis, '42

Advertising Manager

Hugh S. Kelly, Jr., '41

Business Manager

Robert J. Fay, '42

This is the forty-second year the T. C. A. has published the Hand-

book. It is comparable to the "Freshman Bible" of other colleges, and it contains complete information about all aspects of Technology life outside the classrooms. The advertisements in this book serve as a directory to show the new student where he may receive dependable service at reasonable prices from superior concerns. The Handbook is sent to all Freshmen and transfers about September 1st, and it is sent to upperclassmen on request.

### **The Blotter**

Business Manager  
Malcolm M. Anderson, '42  
Advertising Manager  
John M. DeBevoise, '42

Twenty-five hundred 19x24 desk blotters are distributed at the beginning of each term to the student body. Their purpose is to provide a medium for those advertisers who have something to offer the students, and also to furnish a handy calendar and telephone numbers of the Institute activities and fraternities. A copy of this blotter may be obtained in the T. C. A. office at the beginning of each term.

### **The M. I. T. Student House**

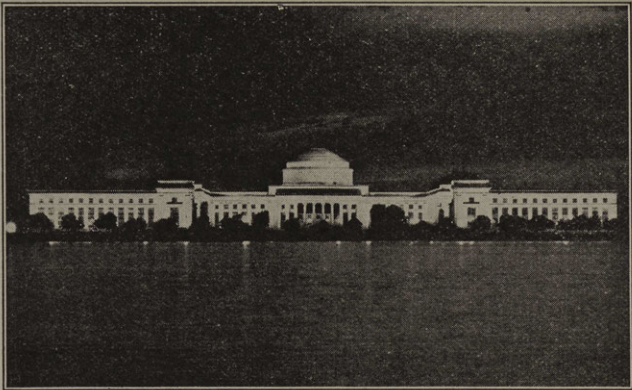
President, Richard E. MacPhaul, '40  
Vice President, Alfred E. Castle, '40  
Secretary-Treasurer  
Robert Wilson Blake, Jr., '41

Through the interest of an anonymous donor the M. I. T. Student House has been established at 59 Bay State Road, Boston. Twenty-five students live in this house, doing all the work except the cooking thereby affecting a material saving in living expense. In addition to this, members maintain a house social program consisting of formal and informal dances, and participate in many other activities. Thus, opportunity is offered for living through the four undergraduate years in pleasant surroundings with congenial house-mates. The House is completely equipped so that residents need only their personal effects.

Direct control of the House is under the Advisory Board of the Technology Christian Association and the student Executive Committee chosen by the residents. The Advisory Board has selected a hostess who resides in the House and assists in its operation.

Candidates for residence should apply to Mr. Pennell N. Aborn, Student Employment Bureau, T. C. A. Office or the Executive Committee of the House for application blank or additional information.





THE INSTITUTE AT NIGHT

## **The Altruistic Project**

Acting on Dr. Compton's suggestion that every Tech man should take some interest in a purely altruistic project, the T. C. A. cabinet this year voted that \$1000 of its yearly budget be spent for the purpose of sending underprivileged boys to summer camps. The only stipulations that the T. C. A. makes are that the boys be picked from groups with which members of the Boys' Work Division have been working, that the boy be needy, that he be sent for a period of at least two weeks, that the T. C. A. contribution not exceed \$10 per boy, and that the boy be requested to write a letter to the T. C. A. expressing his thanks and telling of his experience at camp.

Again Technology and the T. C. A. have shown themselves to be leaders in the field of social work through the instigation of this project. The students of the Institute are heartily behind it and settlement house leaders believe that this will start a new movement for improving the lives of thousands of underprivileged children.

The Boys' Work Division has undertaken the distribution of the money and this summer ten settlement houses sent almost 100 boys to camps where they have developed both physically and morally.

The T. C. A. stands  
for service to anyone,  
anytime regarding  
anything, anywhere

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*Directory of Churches***BAPTIST**

**First Baptist Church** in Boston, Commonwealth Ave. and Clarendon St. Service 11.00 A. M. Christian Endeavor 6.15 P. M.

**Brookline Baptist Church**, Coolidge Corner. Service 11.00 A. M. Student Meeting 5.30 P. M.

**First Baptist Church** in Cambridge, Central Square. Services 10.30 A. M. and 7.00 P. M. Fellowship 8.20 P. M.

**Tremont Temple**, Tremont St. near School St., Boston. Service 10.25 A. M. Christian Endeavor 5.30 P. M.

**Old Cambridge Baptist Church**, Massachusetts Ave. and Harvard St. Services 10.30 A. M. and 7.00 P. M. Sunday Evening Club 7.30 P. M.

**CHRISTIAN SCIENCE**

**First Church of Christ, Scientist**, Falmouth, Norway, and St. Paul Sts., Boston. Services 10.45 A. M. and 7.30 P. M.

**KING'S CHAPEL**

(1686)

School and Tremont Streets  
Boston

Rev. Falfrey Perkins, D. D.  
Minister

Sunday, 11.00 A. M. Morning  
Prayer: Students Club Sunday  
Evening. **27 Marlborough Street.**

**The First Church of Christ  
Scientist**

(THE MOTHER CHURCH)

Falmouth, Norway and St. Paul  
Streets, Boston

Sunday Services: 10.45 A. M. and  
7.30 P. M. Sunday School at 10.45  
A. M. Wednesday Evening Meet-  
ing 7.30 P. M.

**TRINITY CHURCH**

**Copley Square**

Rev. Arthur Lee Kinsolving  
Rector

Sunday Services: 11 A. M.  
Student Seminar: 5.30 P. M.

**(Rectory: 233 Clarendon Street)**

**CONGREGATIONAL**

**Mount Vernon Church**, Beacon St. and Massachusetts Ave., Boston. Service 11.00 A. M. Student Meeting 7.30 P. M.

**Harvard Church in Brookline**. Marion and Harvard Sts. Service 11.00 A. M. Student Meeting 8.00 P. M.

**First Church in Cambridge**, Corner Garden and Mason Sts. Service 11.00 A. M. Student Meeting 7.30 P. M.

**Old South Church**, Copley Square, Boston. Service 11.00 A. M. Student Supper 6.15 P. M.

**Prospect St. Congregational Church**, near Central Square, Cambridge. Service 10.30 A. M. Student Meeting 6.30 P. M.

**Church of the Covenant**, Berkeley and Newbury Sts., Boston. Service 10.45 A. M. and 7.30 P. M. Social hour 8.30 P. M.

**Park St. Congregational Church**, Park and Tremont Sts., Boston. Service 10.30 A. M. Christian Endeavor 5.45 P. M.

**EPISCOPAL**

**Cathedral Church of St. Paul**, opposite Park St. Subway, Boston. Service 11.00 A. M.

**Emmanuel Church**, 15 Newbury St., Boston. Service 11.00 A. M. Emmanuel Club 6.30 P. M.

**CHURCH OF THE ADVENT**

**Mt. Vernon and Brimmer Sts.**

Rev. Whitney Hale, Rector

Sundays: Holy Communion 7.30  
and 8.30 A. M.; Sung Mass 11 A.  
M.; Solemn Evensong 6 P. M.

Weekdays: Holy Communion  
7:30 A. M.; Confessions: Fridays  
and Saturdays 5-6 P. M.

**HARVARD ST. LUTHERAN  
CHURCH**

**321 Harvard St., Cambridge**  
(near Hancock)

Geo. A. Lillegard, Pastor  
Tel. Eliot 0915

Sunday Services: English, 10.30  
A. M. Norwegian, 1st and 3rd  
Sundays, 11.30 A. M.

Lutherans from Synodical Con-  
ference Churches are invited to  
make this their church home.

**Trinity Church**, Copley Square, Boston. Service 11.00 A. M. Student Seminar 5.30 P. M.

**Church of the Advent**, Mt. Vernon and Brimmer Streets. Holy Communion: 7.30, 8.30; Sung Mass: 11.00; Solemn Evensong, 6.00 P. M.

**Christ Church** in Cambridge, Garden St. near Harvard Square. Services: 7.30, 8.30, 9.30, and 11.00 A. M., 8.00 P. M.

## LUTHERAN

**Harvard St. Lutheran Church**, 321 Harvard St., Cambridge, (near Hancock St.). Service 10.30 A. M.

**University Lutheran Church**, Winthrop St., Cambridge, between Dunster and Boylston Sts., (Near Harvard Square). Service 10.45 A. M. Student supper and forum, 6.15 P. M.

## METHODIST

**Copley M. E. Church**, corner Exeter and Newbury Sts., Boston. Service 11.00 A. M. Student Group 7.30 P. M.

**Epworth M. E. Church**, Massachusetts Ave., opposite Waterhouse St., Cambridge. Service 11.00 A. M. Evening program for students at 7.30 P. M.

**St. Mark's M. E. Church**, Park and Vernon Sts., Brookline. Service 11.00 A. M.



The  
T. C. A.  
Church Relations  
Department  
puts out a  
weekly bulletin  
of Church Services

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Consult it on  
the Institute  
Bulletin Boards

## PRESBYTERIAN

**First Presbyterian Church**, corner Harvard and Pierce Sts., Brookline. Service 10.45 A. M. Young People's Group, 6.30 P. M.

**Westminster House**, 185 Bay State Road. Students welcome at all hours. Sunday meetings, 4.00 to 10.00 P. M.

**Church of the Covenant**, Boston, Berkeley and Newbury Streets.

**First United Presbyterian Church**, Cambridge, 1418 Cambridge Street.

**Scotch Presbyterian Church**, Boston, Tremont and West Brookline Streets.

**First United Presbyterian Church**, Boston, Warren Avenue and West Brookline Street.

## ROMAN CATHOLIC

**St. Paul's Church**, Arrow and De Wolfe Sts., Cambridge.

**St. Mary's of the Annunciation**, Harvard and Norfolk Sts., Cambridge.

**The Cathedral of the Holy Cross**, Washington and Union Park Sts., Boston.

**St. Cecelia**, Belvidere and St. Cecelia Sts., Boston.

**St. Clement's Church**, Boylston and Ipswich Sts., Boston.

**WESTMINSTER HOUSE**

"Your Home Away From Home"

**185 Bay State Road Com. 8864**

— Sunday Meetings —

5:15 P. M. Worship, Speaker, and  
Discussion

6:30 P. M. Food, Fellowship, Fun

**Bernard Lea Rice, Director**

**UNIVERSITY LUTHERAN  
CHURCH**

**Winthrop Street, Cambridge  
between Dunster and Boylston  
(near Harvard Square)**

Rev. Norman D. Goehring, Pastor

10.45 A. M. Morning Worship

6.15 P. M. Student Supper-Forum

Attend the  
T. C. A.  
Embassy

**UNITARIAN**

**Arlington St. Church**, corner Arlington and Boylston Sts., Boston. Service 11.00 A. M. Student Group (weekly) 6.30 P. M.

**First Church** in Cambridge. Harvard Square. Services 11.00 A. M. Charles W. Eliot Club 6.30 P. M.

**First Church** in Boston, Berkeley and Marlborough Sts. Service 11.00 A. M. Young People's Society first Sunday in month at 7.30 P. M.

**Second Church** in Boston, Beacon St. and Park Drive. Service 11.00 A. M. Emerson Guild 6.30 P. M.

**King's Chapel**, School and Tremont Sts., Boston. Service 11.00 A. M. Freeman Club 6.30 P. M.

**JEWISH**

**Temple Israel**, Commonwealth Avenue, Boston, at Kenmore Square. Saturdays 10.30 A. M., Sundays, November through May 31, at 11.00 A. M.

**Beacon St. Temple**, Beacon corner Kent St., Brookline. Fridays at 8.00 P. M., Saturdays at 11.00 A. M.

**Congregation Mishkan Tefila**, Seaver St. and Elm Hill Ave., Roxbury. Saturdays at 8.45 A. M., Fridays at 8.00 P. M.

## *Freshmen and Fraternities*

**A** FRESHMAN entering Technology has three general possibilities open to him in the matter of living quarters: the dormitories, the many rooming or apartment houses, and the fraternities. Since so many of the entering class are unfamiliar with the fraternity situation we feel that a word of introduction may be helpful.

In all there are about six hundred and fifty undergraduates distributed among the twenty-four fraternities which own houses. Among the twenty-four, almost every type of fraternity is represented. There are nationals and locals, small ones and fairly large ones, fraternities which have religious requirements and fraternities which do not, and in fact every variation in type that is common at all colleges. Most of the twenty-four houses are in Boston, although there are a few in Brookline and Cambridge.

Although the fraternities differ from each other in many respects, there are a few distinctive features which are common to all of them. In the first place, they are primarily serious organizations whose purpose is to provide pleasant and stimulating conditions for working. The founders of these fraternities recognized the social need which existed at Tech, but they instilled

into their groups the principle that social life should be only a supplement to education. It has followed, therefore that the fraternity upper-classmen encourage and supervise, to a certain extent, both the studies and activities of the Freshman members, and every effort is made to maintain scholarship.

No discussion of the fraternity situation would ever be complete without a word about the "rushing" system, which is the name for the method by which new members are selected. It seems peculiar to outsiders that this "rushing" is done before school opens but there is so little time once classes have started that each fraternity tries to get its quota of Freshmen as soon as possible. Each group makes an organized search for likely candidates, and since so much must be accomplished in a short time, the Freshmen are sure to be startled by the abruptness of the whole procedure. Freshmen are often stopped in the halls by fraternity men, whom they have never seen before, and invited to the fraternity houses. It is naturally difficult for some of them to appreciate the meaning of the golf, dinner and theatre invitations that they receive, but there is, however, a real reason for them. It is necessary that the rushee be entertained and at his ease; otherwise it is impossible for the necessary friendship and confidence to be developed. The recipients of these invitations should feel somewhat com-

plimented on being selected for consideration. Invitations to join are given personally after unanimous approval by the fraternity members. Some fraternities will demand an immediate answer, but the Freshman should receive such an invitation with suspicion, especially if he has seen no other houses. He should also regard with suspicion any remarks made by members of one fraternity concerning another. His opinion of a fraternity should be based solely on what he has seen of it himself. The most important thing is the matter of friendships, for a fraternity man's intimate friends are very likely to be limited to his fraternity brothers. His social life centers about fraternity activities, and should be a source of endless pleasure. The life at the Institute is such that general social activities are painfully limited, and a man's fraternity, therefore, fills a great gap in his college life.

Freshmen interested in joining a fraternity should realize that they must look at fraternities even more thoroughly than the fraternities look at them. Before any man accepts an invitation to join he should meet every active member of the fraternity; some fraternities may attempt to influence a rushee by presenting a few of the outstanding men. Often a rushee will be entertained by Seniors exclusively, but if he is wise he will remember that Juniors and Sophomores are his potential friends. In looking at any

fraternity the Freshman has a right to know the aims and policies of the group. The various fraternities have individual characteristics which should be recognized by the Freshman, who should select a group in which he will be congenial.

Sometimes men who want to join fraternities are not invited to join at first. If these men really want to join one, they will be able to do so. The important thing is for them to get into activities and win some recognition there, and then the fraternities will take notice.

### **Interfraternity Conference**

**T**HE Interfraternity Conference is an organization composed of two representatives from each fraternity at Technology. Its purpose is to serve as a representative of the fraternity system to the Institute and to its students. Its activities include the organization and management of the various interfraternity athletic contests in nearly every sport at Tech, and a dinner meeting four times a year. Its most notable contribution to the social life at the Institute is the Interfraternity Conference Ball, the outstanding social event of the year, which is held in the spring.

#### **Officers**

Chairman, Raymond C. Foster, '40  
Institute Committee Representative,  
J. Herbert Holloman, '40  
Treasurer,  
Raymond W. Ketchledge, '41



## *Fraternities*

**Alpha Tau Omega.** 37 Bay State Road, Boston. Founded 1865 at Virginia Military Institute. Beta Gamma Chapter. Established 1885. 94 chapters. Amos J. Shaler, President. COMMonwealth 8029.

**Beta Theta Pi.** 241 Kent Street, Brookline. Founded 1839 at Miami University. Beta Upsilon Chapter. Established 1913. 89 chapters. Donald W. Ross, President. LONGwood 8409.

**Chi Phi.** 22 The Fenway, Boston. Founded 1824 at Princeton University. Beta Chapter. Established 1890. 35 chapters. James J. Shipman, President. COMMonwealth 8355.

**Delta Kappa Epsilon.** 403 Memorial Drive, Cambridge. Founded 1844 at Yale University. Sigma Tau Chapter. 48 chapters. Augustin J. Powers, Jr., President. ELIot 8150.

**Delta Psi** (Number Six Club). (Also known as St. Anthony Hall). 428 Memorial Drive, Cambridge. Founded 1847 at Columbia University. Tau Chapter. Established 1889. 9 chapters. John L. Danforth, President. KIRkland 0666.

**Delta Tau Delta.** 255 St. Paul Street, Brookline. Founded 1859 at Bethany College. Beta Nu Chapter. Established 1899. 74 Chapters. Howard E. Schwiebert, President. LONGwood 8614.

**Delta Upsilon.** 526 Beacon Street, Boston. Founded 1834 at Williams. Technology Chapter. Established 1891. 61 chapters. John M. McKee, Jr., President. COMMonwealth 8124.

**Kappa Sigma.** 33 Bay State Road, Boston. Founded 1869 at University of Virginia. Gamma Pi Chapter. Established 1914. 106 chapters. John H. Holloman, President. COMmonwealth 8501 and 9401. Paul V. Bollerman, Chapter Correspondent.

**Lambda Chi Alpha.** 441 Beacon Street, Boston. Founded 1909 at Boston University. Lambda Chapter. Established 1912. 90 chapters. Jackson R. Nichols, President. COMMonwealth 9102.

**Phi Beta Delta.** 71 Bay State Road, Boston. Founded 1912 at Columbia University. Theta Chapter. Established 1920. 18 chapters. Daniel S. Karp, President. COMMonwealth 7775.

**Phi Beta Epsilon.** 400 Memorial Drive, Cambridge. Founded 1890 at Technology. Local. TROWbridge 2341.

**Phi Delta Theta.** 97 Bay State Road, Boston. Massachusetts Gamma Chapter. Founded 1848, Miami University, Oxford, Ohio. 106 chapters. A. Hoadley Mitchell, President. COMMonwealth 8691.

**Phi Gamma Delta.** 28 The Fenway, Boston. Founded 1848 at Washing-

ton and Jefferson College. Iota Mu Chapter. Established 1889. 73 chapters. William R. Taylor, Jr., President. COMMonwealth 8048.

**Phi Kappa.** 562 Newbury Street, Boston. Founded 1889 at Brown University. Eta Chapter. Established 1918. 23 chapters. CIRcle 8092.

**Phi Kappa Sigma.** 530 Beacon Street, Boston. Founded 1850 at the University of Pennsylvania. Alpha Mu Chapter. Established 1903. 39 chapters. Thomas F. Creamer, President. COMMonwealth 8630.

**Phi Mu Delta.** 460 Beacon Street, Boston. Founded 1918 at the University of New Hampshire. Nu Delta Chapter. Established 1922. 16 chapters. Carl A. Chamberlain, President. COMMonwealth 8318.

**Phi Sigma Kappa.** 487 Commonwealth Avenue, Boston. Founded 1873, Massachusetts Agricultural College. Omicron Chapter. Established 1902. 45 chapters. Edward R. Harris, President. CIRcle 8093.

**Sigma Alpha Epsilon.** 484 Beacon Street, Boston. Founded 1856 at the University of Alabama. Massachusetts Iota Tau Chapter. Established 1892. 111 chapters. Russell L. Haden, President. COMMonwealth 7762.

**Sigma Alpha Mu.** 83 Egmont Street, Brookline. Founded 1909, at the College of the City of New York. Xi Chapter. Established 1917. 39

chapters. David S. Saxon, President. LONGwood 9666.

**Sigma Chi.** 532 Beacon Street, Boston. Founded 1855 at Miami University, Oxford, Ohio. Alpha Theta Chapter. Established 1882. 98 chapters. Franklin E. Penn, President. COMMonwealth 8095.

**Sigma Nu.** 259 St. Paul Street, Brookline. Founded 1869 at Virginia Military Institute. Epsilon Theta Chapter. Established 1922. 96 chapters. William H. Hailey, President. LONGwood 9083.

**Theta Chi.** 528 Beacon Street, Boston. Founded 1856 at Norwich University. Beta Chapter. Established 1902. 49 chapters. Raymond C. Foster, Jr., President. KENmore 3249.

**Theta Delta Chi.** 314 Memorial Drive, Cambridge. Founded 1847 at Union College. Theta Deuteron Chapter. Established 1890. 28 chapters. Karl Pfister 3rd, President. ELIot 9809.

**Theta Xi.** 66 Bay State Road, Boston. Founded 1864 at Rensselaer Polytechnic Institute. Delta Chapter. Established 1885. 35 chapters. Douglas W. Crawford, President. COMMonwealth 2495.

# CONSTITUTION



G. TRIMBLE

**INSTITUTE COMMITTEE  
CONSTITUTION AND BY-LAWS**

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**CONSTITUTION****ARTICLE I****Name of Organization**

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

**ARTICLE II****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****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 hereinafter 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 ballot 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:

Dormitory Committee  
M. I. T. Athletic Association  
Musical Clubs  
Technique  
Technology Christian Association  
The Tech  
Tech Engineering News  
Voo Doo  
Combined Professional Societies  
Walker Memorial Committee  
Budget Committee  
Elections Committee  
Commuters' Association  
Interfraternity Conference  
Nautical Association

Section 5. Any other recognized organization (as defined in Article X, Section 1) 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

### **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.

## **BY-LAWS**

### **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 they shall be the three delegates from the Freshman Council;

b. One representative from each undergraduate organization to whom a seat has been granted, as hereinafter provided in Article 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.

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 tem.

Section 3. All members of The Institute Committee shall assume office at this organization of the new Institute Committee in May and hold same until the last meeting of that Institute Committee. Organizations changing officers at periods other than this shall not change their representative until the regular time as defined above.

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 an organization cannot be present at a meeting of The Institute Committee, the Committee may seat a substitute who shall have a written authorization signed by the absent member or by the organization which he represents.

#### ARTICLE IV

##### **Officers**

The officers and Executive Com-

mittee, 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

### **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. The Vice-President shall assume the responsibility of collecting and filing reports of the four classes and all sub-committees of The Institute Committee as provided in Article XI. He shall also keep on file up to date copies of the constitutions of all recognized activities.

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 subcommittees, 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.

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

Section 5. 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. Proxies will be accepted for absence as defined in Section 3.

Section 3. If the full representation of any organization is not present at two consecutive meetings of The Institute Committee, or if any organization has consecutively two proxies and an absence in any order, that organization shall forfeit its right to representation on the Committee. Representation on the Committee shall not be resumed until the Institute Committee shall have received a formal petition from the organization giving due assurance that such absence shall not recur, and shall have passed on this petition in accordance with Article IX, Section 2, of these By-Laws.

## ARTICLE VIII

### **Representation**

Section 1. To be granted representation on The Institute Committee, an organization must have existed one and one-half calendar years, and must either have had a minimum of fifty (50) students taking active part in it during one Institute term, or must have other qualifications which render it worthy of representation.

Section 2. Having fulfilled these requirements, the organization may be granted representation at the discretion of The Institute Committee, a two-thirds vote of the members present being required.



## ARTICLE IX

### **Recognition**

Section 1. Any organization appearing before the public as an M. I. T. 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 Vice-President of the Institute Committee.

Section 2. Any organization desiring to be recognized as an M. I. T. 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 Institute Committee, and certify 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 7, of the by-laws governing the Budget Committee.

## ARTICLE X

### **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 sub-committee 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 committees 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, Senior Dance Committee, and 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.

Revised April 16, 1938.

**SUB-COMMITTEE  
BY-LAWS**

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**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 of three associates, one of whom shall be the Treasurer of the M. I. T. Athletic Association, 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 Com-

mittee subject to the ratification of The Institute Committee at the first meeting of that Committee following class elections. 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 at the second meeting of that body following the class elections.

#### 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 Chair-

man of The Budget Committee shall pay no bill that has not been authorized by the Chairman of the Committee contracting the bill.

4. To submit copies of all approved budgets of athletic organizations spending money of the undergraduates dues to the Treasurer of the M. I. T. Athletic Association.

5. To report the approved budgets for all the athletic teams at a meeting of The Institute Committee not later than the first meeting in December. This report shall contain the total amount budgeted to each team.

6. 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. 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 (\$5.00) shall be imposed for each late report.

7. To receive and permanently file monthly operating statements and balance sheets from the M. I. T. A. A., Musical Clubs, T. C. A., Technique, T. E. N., The Tech, and Voo Doo. A fine of one dollar (\$1.00)

shall be imposed for each report filed later than the fifteenth of the month following that for which it is compiled.

8. The annual dues for each organization coming under the jurisdiction of the Budget Committee shall be one dollar (\$1.00) payable January first, except that organizations financed by The Undergraduate Dues shall pay no dues to The Budget Committee. A fine of five dollars (\$5.00) shall be imposed for late payment of dues.

9. For the purpose of defining the groups of activities mentioned in Section 6, such grouping shall be as follows:

### **Undergraduate Activities**

#### **CLASS A**

The Institute Committee  
The Four Classes  
Combined Musical Clubs  
Combined Professional Societies  
Dormitory Committee  
Five-fifteen Club  
Interfraternity Conference  
M. I. T. A. A.  
Nautical Association  
Technology Christian Association  
Technique  
Tech Engineering News  
The Tech  
Voo Doo

#### **CLASS B**

Aeronautical Engineering Society



Association of General Contractors of America  
Agenda  
American Institute of Chemical Engineers  
American Institute of Electrical Engineers  
American Institute of Mining Engineers  
Alpha Chi Sigma  
Alpha Phi Omega  
American Students Union  
Army Ordnance Association  
Architectural Society  
American Society of Civil Engineers  
American Society of Mechanical Engineers  
Association of Women Students  
Baton  
Beaver Club  
Beaver Key Society  
Benchmark  
Boat Club  
Catholic Club  
Chemical Society  
Chess Club  
Chi Epsilon  
Chinese Students Club  
Christian Science Organization  
Dorclan  
Dramashop  
Gridiron  
Grogo  
Hexalpha  
M. I. T. Outing Club  
Menorah Society  
Naval Architectural Society  
Osiris  
Physical Society  
Propeller Club

Quadrangle Club  
Radio Society  
Society of Automotive Engineers  
Scabbard and Blade Society  
Scroll  
Sedgewick Biological Society  
Tau Beta Pi  
Tech Bible Study Group  
Tech DeMolay Club  
Tech Swim Club  
Track Club  
Unity Club  
Woop Garoo Society  
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.

Revised May, 1937.

## ELECTIONS COMMITTEE

### ARTICLE I

The name of this Committee shall be The Elections Committee.

### ARTICLE II

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

### ARTICLE III

Section 1. The Committee shall consist of a Chairman, who is ex-officio member of The Institute Committee, and seven associate members.

Section 2. The Chairman shall be a senior elected by The Executive Committee of The Institute Com-

mittee subject to the ratification of The Institute Committee at the first meeting of that Committee following class elections.

Section 3. The associate members shall be appointed by The Executive Committee of The Institute Committee subject to the ratification of The Institute Committee. At least two of these shall be members of the senior class, and at least three shall be the members of the junior class.

#### ARTICLE IV

The duties of The Elections Committee shall be to carry on elections in accordance with the rules hereinafter stated:

Section 1. 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 recounted as provided in Article IV, Section 13. 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 2. All class elections, Junior Prom Committee, Senior Week Committee, and Senior Class Marshals elections shall be by the preferential system of voting.

Section 3. 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 4. A person is eligible to be nominated by members of his own class for but a single office in the class in which he is a voter except that only those who were members of the graduating class in their junior year shall be eligible for election to the Senior Week Committee.

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.

(Sponsors' signatures)

I hereby accept the nomination.

(Signature of nominee .....)

For all class elections there shall be the signatures of twenty-five (25) sponsors on the nomination blank, and no individual may sign the nomination blank of more than one candidate for any office. For the election of the Junior Prom Committee there shall be the signatures of twenty-five (25) sponsors on the nomination blank. For the election of the Senior Week Committee there shall be the signatures of ten (10) sponsors on the nomination blank.

The nominations for Senior Class Day Marshals shall require the signatures of twenty-five (25) sponsors.

Nominees are requested, but not required, to submit to the Elections Committee the following material along with their nominations:

- (1) Cumulative rating.
- (2) Residential group.
- (3) Activity record at M. I. T. (in tabular form).
- (4) A full face photograph of the standard dimensions, 4 x 5 inches.

Nominees for the Senior Week Elections are exempt from this ruling.

Section 6. The Elections Committee shall provide one standard printed nomination blank to each candidate. This blank shall provide space for thirty-five (35) names. Nominations on any other forms shall not be accepted.

Nomination papers must be de-

posited in a locked box provided for the purpose between the hours of 9 A. M. on the Wednesday and 1 P. M. on the Thursday immediately preceding the election or else they will not be accepted.

Section 7. 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 position of Vice-President, but the second man to receive a majority (as explained in Section 20 on counting by preferential system) in the balloting for President shall be named Vice-President.

Section 8. The Chairman shall have the required number of ballots in his possession at least twenty-four (24) 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 elections.

Section 9. In the annual spring elections, the ballots of each class shall be a separate color.

Section 10. All elections shall be held on Wednesday the day before the Thursday on which there is a meeting of the Institute Committee.

(a) The Freshman Council elections shall be held on the Wednes-

day of the third week of the first term and again on the Thursday 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.

(b) The Junior Prom Committee election shall be on the first or second Wednesday of November.

(c) The Senior Week Committee election shall be held on the second or third Wednesday following the beginning of the second term.

(d) The annual spring class elections shall be held on the first, second or third Wednesday in April.

Section 11. The date of election and the date upon which nominations are due shall be publicly announced two weeks before the day of the election.

Voting regulations, date and place of the election, and a list of the nominees shall be printed in *The Tech* on the Monday preceding the day of election. The polls shall be open from 8.30 A. M. until 5.20 P. M.

Section 12. The voting for all elections shall be done in two rooms designated by the Committee. One shall be the main lobby and the other shall be in Rogers building.

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 in the ballot box, and giving the lower portion containing his signature to the attendant at the exit.

Section 13. 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 class

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 14. 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 15. 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 16. 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 17. All forms of electioneering at the polls shall be prohibited; and no recognized undergraduate activity shall engage in any form of electioneering.

Section 18. Candidates for office shall not be permitted to take active part in the work of The Elections Committee.

### **Voting**

Section 19. 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 some one 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 twenty 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 M. I. T. A. A., 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 the 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.”

Revised June, 1937.

**SENIOR WEEK COMMITTEE****CONSTITUTION**

## 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 twenty 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.

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

#### ARTICLE IV

Section 1. The Executive Committee of the Institute Committee shall appoint a Junior member to the Senior Week Committee prior to the Senior Week Committee elections.

Section 2. The Junior Member shall keep all accounts, receive and deposit all income, and shall pay out all moneys as directed by the Executive Committee of Senior Week Committee.

Section 3. 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 not share in the profit or loss of the Committee during his Junior year.

Section 6. 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 and Executive Committee as well as copies of all the literature, announcements, tickets, etc., having to do with Senior Week.

Section 7. 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 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 elections.

Section 2. At this meeting a chairman, a secretary, and member-at-large shall be elected by those present from amongst 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 from the Class Treasury to be used as an operating fund.

Section 2. The Committee shall share evenly amongst themselves all profits remaining after all expenses have been paid and the full amount borrowed from the Class Treasury has been returned.

Section 3. The Committee shall share evenly amongst themselves all debts remaining after the \$300 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.

Revised October, 1937.

**THE WALKER MEMORIAL  
COMMITTEE CONSTITUTION**

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, to administer all Institute facilities under its jurisdiction to the best interests of the Undergraduate Association, and to regulate and enforce the Point System.

ARTICLE III

Section 1. This Committee shall consist of a Chairman and six (6) associates. The Chairman shall be a member of the Senior Class and ex-officio a member of The Institute Committee and The Executive Committee of The Institute Committee. The remainder of the Committee shall consist of two (2) members of the Junior Class and four (4) of the Sophomore Class.

Section 2. At the first meeting of The Executive Committee of The Institute Committee, following spring class elections, The Executive Committee of The Institute Committee shall elect for the com-

ing year, subject to the ratification of the Institute Committee, a chairman of the Walker Memorial Committee and two (2) members of the Sophomore Class who become Junior members of The Walker Memorial Committee.

Section 3. The Chairman of the Walker Memorial Committee shall hold a three weeks' competition for Sophomore members of Committee two weeks after school opens in the fall. At the end of this time he shall appoint four (4) Sophomores subject to the ratification 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 Naval Hanger Gym and to enforce such house rules as are deemed necessary for the proper administration of these buildings.

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 or the Naval Hangar Gym 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. Fail-

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ure to comply with these regulations shall incur a fine of five dollars (5.00).

4. To levy a fine of one dollar (1.00) on any organization which holds a meeting in the Walker Memorial Building or Naval Hangar Gym unauthorized by the Walker Memorial Committee, and to refuse to approve the application for reservation of any room in Walker Memorial or the Naval Hangar Gym 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 various parts of the Walker Memorial Building and the Naval Hangar Gym.

6. To cooperate with the Dean, the Superintendent of Buildings and Power, and the Superintendent of the Dining Service in every way possible for the proper administration of the Walker Memorial Building and the Naval Hangar Gym.

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 boards for commercial interests not connected with the Institute.

10. To assign all rooms of the Walker Memorial Building and Naval Hangar Gym for the use of undergraduate activities.

11. To maintain a record of the officers of all activities and to regulate and enforce the Point 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.



## ARTICLE VI

1. The Walker Memorial Committee shall regulate and enforce the Point 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 purposes of the Point 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 small measure an individual in the number of responsibilities he may accept, in the effort to spread this responsibility, and to 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. No person may resign from an



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office given him by popular class vote election in order to reduce his points to allow him to accept a subsequent position.

5. The Walker Memorial Committee shall at all times keep a current file and record of all persons competing in activities, and it 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.

6. 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.

Revised April, 1939

## 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 M. I. T. as belonging to this class are members of this organization. •

Section 2. If the Registrar transfers any member 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, Secretary-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 VA.

## 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 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 Treas-

urer of The Institute Committee and shall sign all requisitions for the expenditures of such moneys. He shall prepare a budget for all the 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 VA

Section 1. The Freshman Council shall consist of one representative from each section of the class. The 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 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 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 Sys-

tem 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

Section 1. In case of negligence of duties or misconduct thereof, any member of The Executive Committee may be deposed from office by a two-third vote of The Executive Committee, and ratified by a majority of The Institute Committee.

#### ARTICLE IX

Section 1. In case of dispute, the correct interpretation of this Constitution shall be determined by the Institute Committee.

#### ARTICLE X

Section 1. This Constitution will automatically become the constitution of every class upon its registration at The Institute.

## ARTICLE XI

Section 1. 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 funds.

### 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.

Revised June, 1937.

## Official Listing of Points Awarded for Undergraduate Activities

### Class Officers

|                     | Sr. and Jr. | Soph. |
|---------------------|-------------|-------|
| President           | 10          | 3     |
| Vice President      | 2           | 1     |
| Secretary-Treasurer | 3           | 2     |
| Institute Committee | 3           | 3     |

### Institute Committee

|                |  |   |
|----------------|--|---|
| Secretary      |  | 5 |
| Vice President |  | 3 |

### Walker Memorial Committee and Budget Committee

|                   |  |    |
|-------------------|--|----|
| Chairman          |  | 10 |
| Junior Members    |  | 8  |
| Sophomore Members |  | 6  |

### Elections Committee

|          |  |   |
|----------|--|---|
| Chairman |  | 6 |
| Members  |  | 3 |

### Open House Committee

|                        |  |    |
|------------------------|--|----|
| Chairman               |  | 10 |
| Sub Committee Chairman |  | 6  |
| Member                 |  | 2  |

### Student—Faculty Curric. Comm.

|          |  |   |
|----------|--|---|
| Chairman |  | 6 |
| Members  |  | 3 |

### M. I. T. A. A.

|                 |  |    |
|-----------------|--|----|
| President       |  | 10 |
| Secretary       |  | 8  |
| Treasurer       |  | 8  |
| Member at Large |  | 6  |
| Vice President  |  | 2  |

|                        |   |
|------------------------|---|
| Treasurer's Assistants |   |
| Juniors                | 8 |
| Sophomore              | 6 |
| Publicity Manager      | 6 |
| Sports Managers        |   |
| Field Day              | 7 |
| Track                  | 8 |
| Crew                   | 8 |
| Others                 | 7 |
| Assistant Managers     |   |
| Track                  | 6 |
| Crew                   | 6 |
| Others                 | 5 |
| Baseball Manager       | 5 |
| Class Team Manager     | 3 |
| Varsity Team Members   | 5 |
| Captains               | 6 |

#### Nautical Association

|                           |   |
|---------------------------|---|
| Commodore                 | 8 |
| Secretary                 | 2 |
| Vice Commodore            | 2 |
| Bos'ns                    | 2 |
| Executive Committee       | 2 |
| Chairman Race Committee   | 4 |
| Race Committee            | 1 |
| Bos'n in Charge of Cox'ns | 2 |
| Cox'ns                    | 1 |
| Secretary of Bos'ns       | 2 |

#### Technique

|                     |    |
|---------------------|----|
| General Manager     | 10 |
| Business Manager    | 9  |
| Editor in Chief     | 10 |
| Senior Positions    | 6  |
| Junior Positions    | 8  |
| Sophomore Positions | 6  |
| Freshman Positions  | 6  |

#### The Tech

|                  |    |
|------------------|----|
| General Manager  | 10 |
| Business Manager | 9  |

|                     |    |
|---------------------|----|
| Editor              | 10 |
| Managing Editor     | 9  |
| Senior Positions    | 6  |
| Junior Positions    | 8  |
| Sophomore Positions | 6  |
| Freshman Positions  | 6  |

**T. E. N.**

|                     |    |
|---------------------|----|
| General Manager     | 10 |
| Editor in Chief     | 10 |
| Business Manager    | 9  |
| Senior Positions    | 6  |
| Junior Positions    | 8  |
| Sophomore Positions | 6  |
| Freshman Positions  | 6  |

**Voo Doo**

|                     |    |
|---------------------|----|
| General Manager     | 10 |
| Business Manager    | 9  |
| Managing Editor     | 9  |
| Senior Positions    | 6  |
| Junior Positions    | 8  |
| Sophomore Positions | 6  |
| Freshman Positions  | 6  |

**Combined Musical Clubs**

|                   |    |
|-------------------|----|
| General Manager   | 10 |
| Concert Manager   | 8  |
| Glee Club Leader  | 8  |
| Orchestra Leader  | 8  |
| Treasurer         | 6  |
| Publicity Manager | 6  |
| All Assistants    | 5  |

**C. P. S.**

|                     |   |
|---------------------|---|
| President           | 8 |
| Secretary-Treasurer | 4 |
| Representatives     | 1 |

**Professional Society**

|                              |   |
|------------------------------|---|
| President                    | 5 |
| Members of Executive Council | 2 |

|                |   |
|----------------|---|
| Vice President | 3 |
| Secretary      | 4 |
| Treasurer      | 3 |

**Dramashop**

|                    |   |
|--------------------|---|
| President          | 8 |
| Secretary          | 6 |
| Treasurer          | 6 |
| Production Manager | 6 |
| Business Manager   | 4 |
| Stage Manager      | 4 |
| Actors             | 3 |
| All Others         | 3 |

**T. C. A.**

|                          |    |
|--------------------------|----|
| President                | 10 |
| Vice President           | 9  |
| Secretary                | 9  |
| Treasurer                | 9  |
| President Frosh Cabinet  | 8  |
| Freshman Cabinet Members | 6  |
| Juniors                  | 9  |
| Sophomores               | 6  |
| Freshmen                 | 5  |

**I. F. C.**

|                          |   |
|--------------------------|---|
| Dance Chairman           | 5 |
| Secretary                | 4 |
| Treasurer                | 5 |
| Institute Committee Rep. | 3 |

**Outing Club**

|                     |   |
|---------------------|---|
| President           | 5 |
| Secretary Treasurer | 1 |

**Junior Prom Committee**

|        |   |
|--------|---|
| Member | 4 |
|--------|---|

**Freshman Council**

|                          |   |
|--------------------------|---|
| Secretary                | 3 |
| Institute Committee Rep. | 3 |
| Member                   | 2 |

**Dorm Committee**

|                          |    |
|--------------------------|----|
| Chairman                 | 10 |
| Treasurer                | 8  |
| Secretary                | 5  |
| Dance Committee Chairman | 7  |

**Gridiron**

|           |   |
|-----------|---|
| President | 3 |
| Secretary | 1 |
| Treasurer | 5 |

**5:15 Club**

|           |    |
|-----------|----|
| President | 10 |
| Secretary | 5  |
| Treasurer | 7  |
| Chairman  | 2  |

**Senior Week Committee**

|               |   |
|---------------|---|
| Chairman      | 4 |
| Junior Member | 4 |

**All Clubs and Societies**

(Not otherwise included)

|                |   |
|----------------|---|
| President      | 5 |
| Vice President | 1 |
| Secretary      | 1 |
| Treasurer      | 1 |

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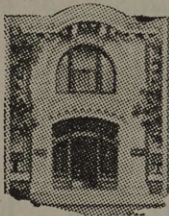
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